## Appendix A Material Safety Data Sheets (MSDSs) for Certain Coatings and Inks

## MSDSs for Hydro-Aire Primer and Topcoat

#### SHEET MATERIAL SAFETY DATA

### SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

: MIL-P-7962D YELLOW PRODUCT NAME

IDENTIFICATION NUMBER: PT-562

PRODUCT USE/CLASS : YELLOW CHROMATE PRIMER

MANUFACTURER: SUPPLIER:

PRODUCTS/TECHNIQUES, INC. 3271 S. RIVERSIDE AVE. PRODUCTS/TECHNIQUES, INC. 3271 S. RIVERSIDE AVE. RIALTO, CA. 92376 P.O. BOX 760 RIALTO, CA. 92376

P.O. BOX 760

BLOOMINGTON, CA. 92316 1-909-877-3951 8 am-4:30 pm BLOOMINGTON, CA. 92316 1-909-877-3951 8 am-4:30 pm

AFTER HOURS EMERGENCY PHONE: AFTER HOURS EMERGENCY PHONE: CHEMTREC CHEMTREC 1-800-424-9300 1-800-424-9300

PREPARER: B.BODEN, PHONE: 909 877-3951, PREPARE DATE: 03/30/99

TITEM	」TO
02       MAGNESIUM SILICATE HYDRATE       14807-96-6       11.         03       ZINC CHROMATE PIGMENT (SEE SEC. 3)       11103-86-9       11.         04       TOLUENE       108-88-3       11.         05       METHYL ISOBUTYL KETONE M.I.B.K.       108-10-1       7.	
07 XYLENE 1330-20-7 5. 08 CELLULOSE NITRATE 9004-70-0 5. 09 N-BUTYL ALCOHOL 71-36-3 5. 10 ETHYL ACETATE 141-78-6 5. 11 ISOPROPANOL I.P.A. 67-63-0 5. 12 ISOBUTANOL SOLVENT 78-83-1 4. 13 GRINDING ADDITIVE PROPRIETARY 0. 14 PAINT ADDITIVE NON HAZARDOUS 0.	4 %
	MOLE
02 2 mg/m3 N/AV 2 mg/m3 N/AV N.E. N 03 0 05 mg/m3 N/AV 0.10 mg/m3 N/A N.E. N	N.E. N.E. N.E.

DATE PRINTED: 08/02/01

Product: PT-562

Page 2

#### SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

	ACGI	H	EXPOSURE LIMITS OSHA		COMPANY	
ITEM	TLV-TWA	TLV-STEL	PEL-TWA	PEL-CEILING	TLV-TWA	SKIN
05	50 PPM	75 PPM	50 PPM	N/AV	15	100
06	300 PPM	400 PPM	300 PPM	N/AV	10.2	120
07	100 PPM	150 PPM	100 PPM	200 (10 MIN)	6.6	106
08	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.
09	50 PPM SKIN	N/AV	50 PPM SKIN	50 PPM	4.4	74
10	400 PPM	N/AV	400 PPM	N/AV	76	88
11	400 PPM	500 PPM	400 PPM	800 PPM	37	58
12	50 PPM	N/AV	50 PPM	N/AV	8.8	74
13	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.
14	N/A	N/A	N/A	N/A	N.E.	N.E
15	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.

(See Section 16 for abbreviation legend)

#### SECTION 3 - HAZARDS IDENTIFICATION

\*\*\* EMERGENCY OVERVIEW \*\*\*: NOTICE: REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

"OTICE: THIS PRODUCT IS SOLD TO YOU AS THE SOLE USER. THIS PRODUCT IS SOLD 3 AN "INDUSTRIAL PRODUCT ONLY". THIS PRODUCT IS NOT INTENDED NOR IS IT LASSIFIED AS A CONSUMER PRODUCT. THIS PRODUCT IS NOT TO BE USED BY THE GENERAL PUBLIC.

NOTE: ALL PERCENT BY WEIGHTS AND VOC'S ARE APPROXIMATE AND MAY VARY SLIGHTLY FROM BAICH TO BATCH, AND DUE TO SOLVENT EVAPORATION, AFTER EACH USE. THE VOC'S ARE "AS PACKAGED MATERIAL".

IF THIS PRODUCT IS IN AN AEROSOL CAN, THE PERCENT OF VOC BY WEIGHT, AS DEFINED BY THE CALIF. AIR RESOURCES BOARD, IS LISTED BELOW. IF THE PRODUCT IS IN A BULK CONTAINER, THE VOC'S IN GRAMS PER LITTER OR LBS PER GALLON ARE LISTED IN SECTION 16.

PERCENT	VOC	BY	WEIGHT:
PERCENT	VOC	D I	WEIGHT.

CATEGORIES FOR AEROSOL PAINTS ONLY: PIGMENTED PAINTS--- EXACT MATCH FINISHES, INDUSTRIAL UNPIGMENTED PAINTS-- CLEAR COATINGS

ZINC CHROMATE PIGMENT FROM SEC. 2:

The Zinc Chromate pigment herein is 24% Chromium (CAS# 7440-47-3).

EFFECTS OF OVFREXPOSURE - EYE CONTACT: Direct contact with the liquid or exposure to vapors or mist may cause stinging, tearing, redness, swelling and eye damage.

(Continued on Page 3)

#### SECTION 3 - HAZARDS IDENTIFICATION

FFECTS OF OVEREXPOSURE - SKIN CONTACT: May cause skin sensitization, an Ilergic reaction, which becomes evident on reexposure to this material. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

EFFECTS OF OVEREXPOSURE - INHALATION: Headaches, dizziness, nausea, decreased blood pressure, changes in heart rate and cyanosis may result from over-exposure to vapor or skin exposure.

EFFECTS OF OVEREXPOSURE - INGESTION: This material may be harmful or fatal if swallowed.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: No Information.

PRIMARY ROUTE(S) OF ENTRY: SKIN CONTACT SKIN ABSORPTION INHALATION INGESTION EYE CONTACT

#### SECTION 4 - FIRST AID MEASURES

FIRST AID - EYE CONTACT: Immediately move victim away from exposure and into fresh air. If irritation or redness develops, flush eyes with clean water and seek immediate medical attention. For direct contact, immediately hold eyelids apart and flush affected eye(s) with clean water for at least 20 minutes. Seek immediate medical attention.

FIRST AID - SKIN CONTACT: Wash with soap and water. Get medical attention irritation develops or persists. Remove contaminated clothing. Wash kin with soap and water. Get medical attention.

FIRST AID - INHALATION: Rescuers should put on appropriate protective gear. Remove from area of exposure. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Keep victim warm. Get immediate medical attention.

FIRST AID - INGESTION: HAVE M.S.D.S. HAZARDOUS INGREDIENT SECTION (SECT. 2) READILY AVAILABLE FOR EMERGENCY PERSONNEL OR DOCTOR. Get medical attention immediately.

#### SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: 24 F - ETHYL ACETATE (TAGLIABUE CLOSED CUP)
LOWER EXPLOSIVE LIMIT: 0.9 %

UPPER EXPLOSIVE LIMIT: 12.0 %

AUTOIGNITION TEMPERATURE: N/E

EXTINGUISHING MEDIA: ALCOHOL FOAM CO2 DRY CHEMICAL FOAM WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapors can travel to a source of ignition and flash back. Flammable Liquid. Can release vapors that form

(Continued on Page 4)

#### SECTION 5 - FIRE FIGHTING MEASURES

plosive mixtures at temperatures at or above the flashpoint. "Empty" ontainers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner, or properly disposed of.

SPECIAL FIREFIGHTING PROCEDURES: Containers can build up pressure if exposed to heat (fire). As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear. Water runoff can cause environmental damage. Dike and collect water used to fight fire.

#### SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Avoid runoff into storm sewers and ditches which lead to waterways.

#### SECTION 7 - HANDLING AND STORAGE

"ANDLING: Wash thoroughly after handling.

.ORAGE: Keep away from heat, sparks and flame. Keep container closed when not in use. Store in a cool dry area at a temperature between 50 and 95 degrees F. Do not store outside in direct sunlight.

#### SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Good general ventilation should be sufficient to control airborne levels. Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product. Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

RESPIRATORY PROTECTION:
All individual company safety policies should be reviewed. If a company determines that threshold limit values and air quality contaminant levels have not been exceeded, then that company should set it's own policies regarding the use of respirators. Always follow all local, state, and federal laws and regulations regarding the use of respirators. A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure

(Continued on Page 5)

#### SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

ir supplied respirator if there is any potential for an uncontrolled elease, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection. A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. Wear a MSHA/NIOSH approved (or equivalent) full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

SKIN PROTECTION: Where contact is likely, wear chemical resistant gloves, such as neoprene or solvent resistant nitrile. To prevent repeated or prolonged skin contact, wear impervious clothing such as a chemical suit, rubber boots, and/or chemical safety goggles plus a face shield if such should be necessary. If the equipment to be worn is not available or the type of equipment for a specific job is not known, consult a reputable safety equipment supply company. Use chemical splash goggles and face shield (ANSI Z87 1 or approved equivalent). shield (ANSI Z87.1 or approved equivalent).

EYE PROTECTION: Wear safety glasses with side shields (or goggles) and a face shield.

OTHER PROTECTIVE EQUIPMENT: Where splashing is possible, full chemically resistant protective clothing (e.g. acid suit) and boots are required.

HYGIENIC PRACTICES: Wash hands before eating. Remove contaminated clothing and wash before reuse. Use only in a well ventilated area. Follow all MSDS/label precautions even after container is emptied because they may retain product residues. Ground and bond containers when cansferring material. Use spark-proof tools and explosion proof quipment. Avoid prolonged or repeated contact with skin. Avoid breathing vapors from heated material. Avoid contact with eyes, skin, and clothing.

#### SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

VAPOR DENSITY : Is heavier than air ODOR THRESHOLD : N/E: 168 - 300 F BOILING RANGE

: SOLVENT LIKE ODOR

EVAPORATION RATE: Is slower than Butyl APPEARANCE : YELLOW LIQUID

SOLUBILITY IN H20 : NONE Acetate SPECIFIC GRAVITY: 1.1105 pH @ 0.0 % : N/E VISCOSITY : FREEZE POINT : N/E VAPOR PRESSURE : N/E

PHYSICAL STATE LIQUID

COEFFICIENT OF WATER/OIL DISTRIBUTION: N/E

(See Section 16 for abbreviation legend)

#### SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Avoid all possible sources of ignition.

INCOMPATIBILITY: (Materials to avoid): strong acids and bases, oxidizers, and selected amines.

(Continued on Page 6)

Product: PT-562 Pre

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#### SECTION 10 - STABILITY AND REACTIVITY

AZARDOUS DECOMPOSITION PRODUCTS: CO and CO2. Other unknown hazardous roducts are possible.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

#### SECTION 11 - TOXICOLOGICAL PROPERTIES

No product or component toxicological information is available.

#### SECTION 12 - ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: No Information.

#### SECTION 13 - DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose of in accordance with all local, state, and federal regulations.

#### SECTION 14 - TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: PAINT

DOT TECHNICAL NAME: N/A

DOT HAZARD CLASS: 3, FLAMMABLE LIQUID |

HAZARD SUBCLASS: N/A

DOT UN/NA NUMBER: UN 1263

PACKING GROUP: II

RESP. GUIDE PAGE: 127

#### SECTION 15 - REGULATORY INFORMATION

THE FOLLOWING COMPONENTS ARE NOT SUBJECT TO REPORTING IN SECTION 2:

No non-hazardous components exist

CAS NUMBER

WT/WT %

U.S. FEDERAL REGULATIONS: AS FOLLOWS -

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

(Continued on Page 7)

#### SECTION 15 - REGULATORY INFORMATION

#### ERCLA - SARA HAZARD CATEGORY:

his product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

#### IMMEDIATE HEALTH HAZARD CHRONIC HEALTH HAZARD FIRE HAZARD

#### SARA SECTION 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

CHEMICAL NAME	CAS NUMBER	WT/WT %
ZINC CHROMATE PIGMENT (SEE SEC. 3)	11103-86-9	11.4 %
TOLUENE	108-88-3	11.4 %
METHYL ISOBUTYL KETONE M.I.B.K.	108-10-1	7.0 %
ALIPHATIC PETROLEUM DISTILLATES	64742-89-8	6.7 %
XYLENE	1330-20-7	5.9 %
N-BUTYL ALCOHOL	71-36-3	5.6 %
ISOPROPANOL I.P.A.	€7-63-0	5.6 %

TOXIC SUBSTANCES CONTROL ACT:

The chemical substances in this product are on the TSCA Section 8 Inventory.

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

----- CHEMICAL NAME -----CAS NUMBER No information is available.

U.S. STATE REGULATIONS: AS FOLLOWS -

NEW JERSEY RIGHT-TO-KNOW:

The following materials are non-hazardous, but are among the top five components in this product:

----- CHEMICAL NAME -----CAS NUMBER No non-hazardous materials are among the top five ingredients.

PENNSYLVANIA RIGHT-TO-KNOW:

The following non-hazardous ingredients are present in the product at greater than 3%:

----- CHEMICAL NAME -----CAS NUMBER No non-hazardous ingredients are present at greater than 3%.

(Continued on Page 8)

Preparation Date: 03/30/99 Product: PT-562 Page 8 SECTION 15 - REGULATORY INFORMATION

\LIFORNIA PROPOSITION 65:

ARNING: The chemicals noted below and contained in this product, are known to the state of California to cause cancer and birth defects or other reproductive harm:

----- CHEMICAL NAME -----ZINC CHROMATE PIGMENT (SEE SEC. 3) TOLUENE

CAS NUMBER 11103-86-9 108-88-3

INTERNATIONAL REGULATIONS: AS FOLLOWS -

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.

CANADIAN WHMIS CLASS: No information available.

#### SECTION 16 - OTHER INFORMATION

REACTIVITY: 0 HMIS RATINGS - HEALTH: 2 FLAMMABILITY: 3

PREVIOUS MSDS REVISION DATE: 01/25/99

REASON FOR REVISION: NEW COMPUTER SYSTEM

VOLATILE ORGANIC COMPOUNDS (VOCS): 4.86 lbs/gal, 583 grams/ltr

MGEND: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

To comply with the requirements of the safe drinking water and toxic enforcement act of 1986 (Proposition 65) we are required to WARN YOU that this material is known to the State of California to cause cancer, birth defects or other reproductive harm. Safe handling is absolutely mandatory. Please review safe handling procedures with your supervisor before working with this material.

The information in this document is believed to be correct as of the date printed. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THIS INFORMATION, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE. This information and product are furnished on the condition that the person receiving them shall make his own determination as to the suitability of the product for his particular purpose and on the condition that he assumes the risk of his use thereof. thereof.

'ND OF MSDS>

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Handlacturer: DETT, INC. (CAGE CODE 3)461)	2 COOR 3)463) Information Phone (547) 474-6409 2 ANTITE Emergency Phone (503) 424-5309 CHIMTEC Phone 180-424-5309		MIN AMCORPICE: Prolonged or repeated contact can cause moderate irritation, drying, and defaiting of the alin which can cause the min to erech.
Product Class, Tire 1, POLISE	THOSE   Marged Ratings; Seeith   )		programme Acute. Can result in irritation and possible corrects whethin in the march, attends the lease and dipartive tract. Vaniting may come expiration of the solvent, resulting in dissolved presentation.
Trode Base   MIL-PET-95285C.)6231.TF Product Code   1(F3)32.36233 C.A.E. Basher: NOW.	a and letty		MEALINE MALAGEM (ACTOTE AND CHRONIC) ACTOTE, Vegors are livilating to ayes, hose, and threat, shall in any course beaches, distinct the marking and less of
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AN ORLISTED ENGEDIENT	1		ryss, plush with clean luberous water (low preserve) for at least 15 minutes, occusionally lifting syelids. Octain madical attention.
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                       V - MEALTH MALAND DATA
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## **MSDS** for Metrex Coating

# International Paint (USA) Inc

### MATERIAL SAFETY DATA SHEET

May be used to comply with OSHA's Hazard Communication Standard, 29CFR 1910, 1200 (THIS MSDS SUPERCEDES ANY PREVIOUS ISSUE) PLEASE DIRECT TO THE APPROPRIATE DEPARTMENT IMMEDIATELY.

TELEPHONE NO. (2011 686-1300 P)
EMERGENCY TELEPHONE NO. (2011 686-1300 C)
DATE OF PREPARATION 09/22/88 S5900441/K0/01 9132305000

N/A = NOT AVAILABLE

TION ONE: PRODUCT IDENTIFICATION

PROD. NO: CLC935
PROD. NAME: I'LAC CARIBBEAN BLUE ALKYD ENAMEL PROD. CLASS N/A

C-HORTHY SPECIALITIES P.C. DOX 131 SAN PEDRO, CA

90733

SECTION TWO: HAZ	ZARDOUS INGREDIENTS	% WT.	OCCUPATIONA	L EXPOSURE	VAP. PRESS (mm Hg)
San Company of the Co		(OPTIONAL)	TLV	PEL	(#50, C)
	2-STHCXYSTHANGL	0-1	5.00 PPP	200.00 PPM	4.0
110-60-5	ETHANCL, 2-ETHOXY- AROMATIC SCLVENT SCLVENT NAPHTHA, (PET.) LT.48	1-5	100.00 PPM	100.00 PPM	3.0
64742-95-8	MINERAL SPIRITS. EXEMPT	45-50	100.00 PPM	500.00 PPM	7.0
2032-32-4	LIGIGINE SOLVENT	1-5	N/A	N/A	0.7
64742-94-5	SCIVETT LAPHTHA. (PET.) HEAVY	0-1	0.05 MG/M3	0.05 MG/P3	N/A
	LEAD CPDS (AS LEAD)				
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SECTION THREE: PHYSIC	AL DATA	
BOILING RANGE 308-350 EVAPORATION RATE: FAS	UEG . F VAPOR DENSITY: HEAVER THAN A STER THAN ETHER X	R X LIGHTER THAN AIR LINGAL 7.7
SECTION FOUR: FIRE AND	EXPLOSION HAZARD DATA	_
FLAMMABILITY CLASSIFICATION: EXTINGUISHING MEDIA:	FLASH PT: 100 DEG. F. (STADSS)-781 FLASH PT: 100 DEG. F. (STADSS)-781 FOAM X	DOT CC BUSTIBLE LEL O.B PERCENT BY VOLUME DRY CHEMICAL X WATERFOR OTHER
OF CAEU CUUL VINZ NANDANY EME WHO EXPOSE	SIGN HAZAROS E EL AMMADLE SOLVENT. DO NOT USE IN FLAME ARE PRESENT.	AREAS WHERE SPARK
SPECIAL FIRE FIGHTING PR SMOTHER WATER MA NOT BE L PREVENCE CLOSEO C		INQUISHING MEDIA. V.O.C INCUISHING MEDIA. 400 au/ litur INCRES, BUT MUST 400 au/ litur INCRES TO EXTREME HEAT. (3)

The information contained herein is based on the data available to us and is believed to be correct. However, international Paint makes no warranty, express or implied, regarding the accuracy of these data or the results to be obtained from the use thereof, international Paint assumes no responsibility for injury from the unif the data de-corbid herein. Consult international Paint for more information.

### **MSDS for Oakwood Stain**

## MATERIAL SAFETY DATA SHEET

Alternative Materials Technology, Inc.

311 Otterson Dr., Ste. 60 Chico, CA 95928

9/18/2001

Phone (530) 894-3585 Fax (530) 896-0657

**Date Prepared** 

Supersedes: All prior dates

24 HOUR EMERGENCY: 1-800-255-3924

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME:

LOW VOC BRANDY STAIN

PRODUCT CODE: 08WS08-017

LF#: KB58-99B

H.M.I.S. Rating:

FLAMMABILITY 3

0

PROTECTION

G

### SECTION II - HAZARDOUS INGREDIENTS

ingredient	Cas No.	Percent	OSHA PEL	ACGIH	OTHER	mmHg
ALIPHATIC HYDROCARBONS	8052-41-3	<5		1		
Acetone	67-64-1	30to40	750 ppm	750 ppm		182
*Aromatic Solvents	64742-94-5	<10	100 ppm	100 ppm		5

\* INDICATES CHEMICAL(S) SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III AND OF 40 CFR 372

### SECTION II-A - VOLATILE ORGANIC CONTENT (VOC)

COMPLIANCE			0.00	4047925141
VOC Grams/Liter Minus Exempt VOC Pounds/Gallon Minus Exempt	154.97 1.29	VHAP: Solids:	0.08	Lb/gal Lb/gal
TOTAL VOC CONTENT (EMISSIONS)		Density	7.64	Lb/gal
VOC Grams/Liter	88.12 0.74	Pounds V	0.18	nas Solias

### SECTION III - PHYSICAL DATA KB58-99B

Property	Reference Measurement					
Boiling Point	116 °F					
Vapor Pressure (mm Hg.)	15					
Vapor Density	(Air=1) Less than 1					
Solubility in Water	Not Soluble					
Specific Gravity	0.917 (H2O=1)					
Evaporation Rate	(Butyl Acetate =1) Less than 1					
Appearance and Odor	REDDISH BROWN, SOLVENT ODOR					
Density: Pounds / Gallon	7.6 bs/Gal					
Percent Non-Volatile	53.2 %					
Pounds Solids / Gallon	4.07					
% Wt Emissions	9.6%					
SECTION IV - FIRE AND EXPL	OSION HAZARD DATA					
Flash Point (Closed Cup):	-1°F					
Lower Explosive Limit::	1.00%					
Upper Explosive Limit::						
Extinguishing Media:						
	FOAM, DRY CHEMICAL, CARBON DIOXIDE OR ANY CLASS "B" EXTINGUISHING AGENT. WATER MAY BE UNSUITABLE AS AN EXTINGUISHING MEDIUM, BUT HELPFULL IN KEEPING ADJACENT CONTAINERS COOL.					
SPECIAL FIREFIGHTING PROCEDURES	FULL PROTECTIVE EQUIPMENT INCLUDING SELF CONTAINED BREATHING APPARATUS. WATER MAY BE USED TO COOL CONTAINERS TO PREVENT PRESSURE BUILDUP, POSSIBLE AUTOIGITION OR EXPLOSION DUE TO EXTREME HEAT.					
UNUSUAL FIRE AND EXPLOSION HAZARDS	Vapors may form an explosive mixture in air. Closed containers may rupture when exposed to extreme heat.					
	Handle or discard materials such as rags in accordance with all local, state, and federal regulations.					
	IF ACETONE IS LISTED IN SECTION II:					
	EXTREMELY! VOLATILE AND FLAMMABLE. MUST BE USED IN AN EXTREMELY WELL VENTILATED AREA. RECOMMEND THAT ALL EQUIPMENT LIGHTING, FIXTURES, AND OTHER ELECTRICAL APPARATUS BE EXPLOSED PROOF.					
	AMT DOES NOT WARRANTY AND WARNS STRONGLY AGAINST USING THIS PRODUCT IF SPECIFIED CONDITIONS ARE NOT MET. THESE STATEMENTS ARE MADE BECAUSE OF THE EXTREME VOLATILITY OF THE ACETONE AND OTHER FLAMMABLE SOLVENTS CONTAINED IN THIS PRODUCT					
	VAPORS MAY TRAVEL ALONG GROUND OR BE MOVED BY VENTILATION TO SOURCES OF IGNITION.					
	CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT, KEEP WORK AREA FREE FROM SOURCES OF IGNITION.					
	RESIDUE IN EMPTIED CONTAINERS CAN EXPLODE OR IGNITE EXPLOSIVELY. ALL S-GALLON PAILS AND LARGER METAL CONTAINERS MUST BE GROUNDED AND/OR BONDED DURING LIQUID TRANSPER.					

#### KB58-99B

#### SECTION V - HEALTH HAZARD DATA

Health Hazards and Effects of Overexposure:

SKIN: This material may cause defatting and irritation of skin. Prolonged or repeated contact may cause dermatitis.

INHALATION: Excess exposure to vapors or spray mists can result in headache, dizziness, incoordination, nausea and loss of consciousness. Some reports have associated repeated and prolonged occupational exposure to

solvents with permanent brain and nervous system damage. EYES: This material may be an eye irritant.

FIRST AID:

EYES: Immediately flush eyes thoroughly with water and continue washing for 15 minutes. Obtain medical attention.

SKIN: Remove contaminated clothing. Wash with soap and water immediately,

INHALATION: Remove to fresh air immediately. If coughing, difficult breathing or any other respiratory symptoms develop, seek medical attention at once.

INGESTION: If ingested DO NOT induce vomiting, keep person warm, quiet, and get medical attention immediately. Aspiration of material into kings can cause chemical pneumonitis which can be falat.

PRIMARY ROUTES OF ENTRY: Inhalation and skin contact.

CARCINOGENICITY: This product does not contain 0.1% or more of any substance which is listed as a carcinogen by IARC, NTP or OSHA.

#### SECTION VI - REACTIVITY DATA

STABILITY: Stable

INCOMPATIBILITY: Avoid contact with strong oxidizing agents.

CONDITIONS TO AVOID: Warm storage and ignition sources.

HAZARDOUS DECOMPOSITION PRODUCTS: INCOMPLETE COMBUSTION CAN YIELD CARBON MONOXIDE AND TOXIC VAPORS.

#### SECTION VII- SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled: Remove all sources of ignition. Ventilate area. Absorb spill with an absorbent meterial such as sawdust, vermiculite or sand and place material into a closed container.

If large spill, dike to prevent this material from entering water suysstems or sewers. Wear protective equipment during cleanup.

Waste Disposal Methods: This material has been tested and found to have a flash point below 140 degrees Fahrenheit. If discarded, this material and containers should be treated as hazardous wastes based on the

characteristic of ignitability as defined under federal RCRA regulations (40 CFR 261). Disposal of this material or its container requires compliance with applicable labeling, packaging, and record keeping standards.

Extreme care should be taken to ensure that it is disposed of only in a facility permitted for disposal of hazardous waste. For further information, contact your state or local waste agency or the United States Environmental Protection Agency's

RCRA hotline (1-800-424-9346 or 202-382-3000)

#### SECTION VIII - CONTROL MEASURES

Respiratory Protection: A canister type respirator must be worn to prevent the inhalation of vapors or spray mists when the TLV or PEL is exceeded.

Ventilation: General vertilation is required during normal use. Local vertilation may be required during certain operations to keep exposure level below the limits listed in Section II of this data sheet.

Protective Gloves: Chemical-resistant nitrile, neoprene or rubber gloves required.

Eye Protection: Wear face shield or chemical goggles.

#### SECTION IX- SPECIAL PRECAUTIONS AND ADDITIONAL INFORMATION

Precautions to be taken in handling and Storing: Avoid prolonged or repeated inhalation of heated vapors or spray mists. Keep away from heat or open flame. Avoid prolonged or repeated skin contact.

Other Precautions: Handle all rags and other materials and/or waste soaked with this product in accordance with the recommendations listed in Section IV of this MSDS.

SARA Title III, Section 313: This product contains chemicals subject to the reporting requirement of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and 40 CFR 372.

ANY SUCH CHEMICALS ARE SHOWN IN SECTION II OF THIS MSDS AND ARE DESIGNATED WITH AN \* \* \*

#### SECTION X - DISCLAIMER

Gloss Value: All gloss values listed are approximate. Each product is drawn down on a Leneta card for gloss measurement. Gloss value as sprayed may vary +-10 gloss units.

#### DISCLAIMER

TO THE BEST OF OUR KNOWLEDGE, THE INFORMATION CONTAINED HEREIN IS ACCURATE. OBTAINED FROM SOURCES BELIEVED BY ALTERNATIVE MATERIALS TECHNOLOGY TO BE ACCURATE. HOWEVER, THE INFORMATION IS PROVIDED WITHOUT REPRESENTATION OR WARRANTY.

EXPRESSED OR IMPLIED REGARDING ITS ACCURACY OR CORRECTNESS.

#### KB58-99B

## **MSDSs for Holmes Coatings**

Date of Preparation: January 7, 2002



#### MATERIAL SAFETY DATA SHEET Primers

Section 1 - Product Information

Manufacturer:

Akzo Nobel Coatings Inc.

5555 Spalding Drive Norcross, GA 30092

USA

Canadian Supplier:

Akzo Nobel Coatings Ltd. 110 Woodbine Downs Blvd. Unit #4 Etobicoke, Ontario

Canada M9W 5S6

Emergency

For US transportation emergencies call

For Canadian transportation emergencies

Telephone:

Chemtrec: 800-424-9300

call - Canutec: 613-996-6666

Information:

770-246-8454 (USA 7:00am - 4:00pm Eastern Time) Product Use: primer

Item Numbers (US & Canadian): Autosurfacer LV Sealer 002012 Basefix 790 006052/006053

Autocoat LV Epoxy 001062/001063/001064

Washprimer CR 001040/001042

Plastoflex Primer 001009 Primer PO 006003/006005 Autosurfacer LV 2.1 002081 Washprimer EM CF 001045/001046

#### **Emergency Overview**

Signs of Overexposure: Nausea, cough, dizziness, weakness, headache, chest pain, lack of coordination, shortness o. breath, dermatitis, redness and/or pain in eyes.

Emergency First Aid: Move to fresh, remove contaminated clothing, wash effected skin with soap and water, do not use solvents or thinners; if product gets into eyes, remove contact lenses, flush with water for 15 minutes.

Handling: When handling wear an organic vapor cartridge respirator (NIOSH / OSHA), solvent resistant gloves and safety eye protection designed to guard against liquid splashes. Use approved bonding and grounding procedures when transferring to another container. Close all containers tightly after use. Do not eat, drink or smoke in work areas. Clean-up: Eliminate sources of ignition. Dike to reduce extent of spill. Remove with inert absorbent (vermiculite, clay, Oil-Dry®, Kitty Litter, etc.) using non-sparking tools. Transfer to a grounded metal container, seal container. Dispose of as hazardous waste.

Material Appearance: White, Green, Gray or Yellow

Material Physical Appearance: Liquid

Other Precautions: Vapors are heavier than air and may travel along floors. Material has an offensive odor. Prolonged exposure may reduce the user's sensitivity to the odor, thus reducing the effectiveness of odor as a warning against

exposure Fire Fighting: Flammable liquid, refer to Guide 127 of the North American Emergency Guide Book. Forms explosive mixture with air, vapors are heavier than air and may travel to a source of ignition and flash back.

NFPA Flammability: 1 B and/or IC.

Akzo Nobel Coatings Inc. has no oversight with respect to the guidance practices or policies or manufacturing processes of other companies handling or using this material. The information given in this MSDS is only related to the product as shipped in its original condition as described in Section 2, "Hazardous Ingredients" and Section 9 "Physical and Chemical Properties".

These products are considered hazardous under the Federal OSHA Hazard Communication Standard

Section 2 - Hazardous Ingredients LD<sub>50</sub> Oral LD<sub>50</sub> Derm OSHA % by PEL CAS No. Press. TLV Hazardous Ingredient

.2.4 Trimethylbenzene (SARA313)	3.2%	95-63-6	1.7	25ppm	25ppm	5000	n. av.	18000	n.a
romatic Solvent	5-10%	000	n. av.	100ppm	n, av.	n. av.	n, av.	n. av.	n. a
Butanol(SARA313)	12.8%	71-36-3	5.5	n. av.	100ppm	790	3400	8000	1.7
thylbenzene(SARA313)	8.8%	100-41-4	7.1	100ppm	100ppm	3500	15486	n. av.	1.0
N-methyl-2-Pyrollidone(SARA313)	1-5%	872-50-4	0.29	100ppm	n. av.	4200	8000	n. av.	0.9
(ylene-mixed isomers(SARA313)	40.3%	1330-20-7	5.1	100ppm	100ppm	4300	>1700	5000	1.0
Propylene Glycol Methyl Ether	10-20%	107-98-2	12.5	100ppm	n. av.	5660	13000	10000	n.a
Basefix 790 contains:									
Aromatic Solvent	1-5%	000	n. av.	100ppm	n. av.	n. av.	n. av.	n. av.	n. a
Butyl Acetate	20-30%	123-86-4	8.0	150ppm	150ppm	10768	17600	2000	1.
sopropyl Alcohol	1-5%	67-63-0	32.8	400ppm	400ppm	5045	12800	16000	2.
sobutyl Acetate	20-30%	110-19-0	12.5	150ppm	150ppm	13400	17400	3500	1.
oluene(SARA313)(P65)	5.6%	108-88-3	22.0	50ppm	200ppm	636	12305	8000	1.
(ylene-mixed isomers(SARA313)	4.4%	1330-20-7	5.1	100ppm	100ppm	4300	>1700	5000	1.
thylbenzene(SARA313)	1.3%	100-41-4	7.1	100ppm	100ppm	3500	15486	n. av.	1.
,2,4 Trimethylbenzene (SARA313)	1.4%	95-63-6	1.7	25ppm	25ppm	5000	n. av.	18000	n.
litrocellulose	1-5%	9004-70-0	n. ap.	n. av.	n. av.	n. av,	n. av.	n. av.	n.a
M & P Naphtha	10-20%	8032-32-4	38.0	300ppm	300ppm	n. av.	n. av.	1600	0.
Primer PO contains:									_
Sutyl Acetate	5-10%	123-86-4	8.0	150ppm	150ppm	10768	17600	2000	1.
thylbenzene(SARA313)	17.1%	100-41-4	7.1	100ppm	100ppm	3500	15486	n. av.	1.
(ylene-mixed isomers(SARA313)	75.7%	1330-20-7	5.1	100ppm	100ppm	4300	>1700	5000	1
Autocoat LV Epoxy contains:									
Methyl Ethyl Ketone(SARA313)	5.7%	78-93-3	77.5	200ppm	200ppm	2737	6480	23500	1.
poxy Resin	10-20%	25036-25-3	n. ap.	10mg/m <sup>3</sup>	15mg/m <sup>3</sup>	30000	3000	n. av.	n.
poxy Resin	1-5%	25068-38-6	n. ap.	n. av.	n. av.	11400	2340	n. av.	n.a
Butyl Acetate	1-5%	123-86-4	8.0	150ppm	150ppm	10768	17600	2000	1.
Butyl Glycidyl Ether	1-5%	2426-08-6	n. ap.	25ppm	50ppm	n. av.	n. av.	n. av.	n.a
C6-C8 Branched Alcohol	1-5%	90438-79-2	22.0	n. av.	n. av.	n. av.	n. av.	n. av.	1.
litanium Dioxide	5-10%	13463-67-7	n. ap.	10mg/m <sup>3</sup>	10mg/m <sup>3</sup>	n. av.	n. av.	n. av.	n.a
Talc	5-10%	14807-96-6	n. ap.	2mg/m <sup>3</sup>	2mg/m <sup>3</sup>	n. av.	n, av,	n. av.	n.a
Ethylbenzene(SARA313)	0.5%	100-41-4	7.1	100ppm	100ppm	3500	15486	n. av.	1.
Foluene(SARA313)(P65)	0.002%	108-88-3	22.0	50ppm	100ppm	5000	14000	4000	1.
Carbon Black (P65)	0.2%	1333-86-4	n. ap.	3.5mg/m <sup>3</sup>	3.5mg/m <sup>3</sup>	n. av.	n. av.	n. av.	n.
Xylene-mixed isomers(SARA313)	2.3%	1330-20-7	5.1	100ppm	100ppm	4300	>1700	5000	1
Barium Sulfate	5-10%	7727-43-7	n, ap.	10mg/m <sup>3</sup>	15mg/m <sup>3</sup>	n. av.	n. av.	n. av.	n.
Arnorphous Silica	10-20%	112926-00-8	n, ap.	10mg/m <sup>3</sup>	20mg/m <sup>3</sup>	n. av.	n. av.	n. av.	n.a
Calcium Oxide	10-20%	1305-78-8	n. ap.	2mg/m <sup>3</sup>	5mg/m <sup>3</sup>	n. av.	n. av.	n. av.	n.a
Bisphenol A Diglycidyl Ether	5-10%	1675-54-3	n. ap.	n. av.	n. av.	11000	20000	n. av.	n.
Methyl Isobutyl Ketone(SARA313)	2.6%	108-10-1	15.0	50ppm	100ppm	2080	24950	2000	1
Quartz Crystalline Silica (P65)	0.01%	14808-60-7	_ n. ap.	.1mg/m <sup>3</sup>	.1mg/m <sup>3</sup>	n. av.	n. av.	n. av.	n.
Zinc Phosphate(SARA313)	14.2%	7790-90-0	n. ap.	n. av.	n. av.	n. av.	n. av.	n, av.	n.
Autosurfacer LV 2.1 contains:				1 3	1 - 3	1	T		1
Talc	5-10%	14807-96-6	n.ap	2mg/m <sup>3</sup>	2mg/m <sup>3</sup>	n.av.	n.av.	n.av.	n.
Butyl Acetate	10-20%	123-86-4	8.0	150ppm	150ppm	10768	17600	2000	1
Zinc Phosphate (SARA 313)	8.4%	7790-90-0	n.ap	n.av.	n.av.	n.av.	n.av.	n.av.	n.
Calcium Carbonate	20-40%	471-34-1	n.ap	10mg/m <sup>3</sup>	15mg/m <sup>3</sup>	n.av.	n.av.	n.av.	n.
Quartz Crystalline Silica (P65)	0.39% -	14808-60-7	n.ap.	.1mg/m <sup>3</sup>	.1mg/m <sup>3</sup>	n. av.	n. av.	n. av.	n.
Titanium Dioxide	20-40%	13463-67-7	n.ap	10mg/m <sup>3</sup>	10mg/m <sup>3</sup>	n.av.	n.av.	n.av.	n.
Washprimer CR contains:								1 0000	-
Butanol(SARA313)	10.9%	71-36-3	5.5	n. av.	100ppm	790	3400	8000	
Formaldehyde(SARA313)(P65)	0.1%	50-00-0	9.5	0.3mg/m <sup>3</sup>	0.75mg/m <sup>3</sup>	800	270	590	1
Isopropyl Alcohol	40-70%	67-63-0	32.8	400ppm	400ppm	5045	12800	16000	H
Talc	1-5%	14807-96-6	n. ap.	2mg/m <sup>3</sup>	2mg/m <sup>3</sup>	n. av.	n. av.	n. av.	n
Zinc Chromate(SARA313)(P65)	8.1%	13530-65-9	n. ap.	.01mg/m <sup>3</sup>	.01mg/m <sup>3</sup>	n. av.	n. av.	n. av.	n
Autosurfacer LV Sealer contains		4000 00 7		100	1.00	1200	1 >4700	E000	Т-
Xylene-mixed isomers (SARA 313)	3.1%	1330-20-7	5.1	100ppm	100ppm	4300	>1700	5000	1
Ethylbenzene (SARA 313)	0.7%	100-41-4	7.1	100ppm	100ppm	3500	15486	n. av.	1
Talc	6.1%	14807-96-6	n.ap	2mg/m <sup>3</sup>	2mg/m <sup>3</sup>	n.av.	n.av.	n.av.	n
Butyl Acetate	6.2%	123-86-4	8.0	150ppm	150ppm	10768	17600	2000	1
Zinc Phosphate (SARA 313)	.7.7%	7790-90-0	n.ap	n.av.	n.av.	n.av.	n.av.	n.av.	n.
Calcium Carbonate	14.9%	471-34-1	n.ap	10mg/m <sup>3</sup>	15mg/m <sup>3</sup>	n.av.	n.av.	n.av.	n.
Litanium Diavida	12.3%	13463-67-7	n.ap	10mg/m <sup>3</sup>	10mg/m <sup>3</sup>	n.av.	n.av.	n.av.	n
Titanium Dioxide	0.404	1000 50 5							
Kaolin. Methyl Amyl Ketone	6.1% 12.3%	1332-58-7 110-43-0	n.ap 2.1	2mg/m <sup>-3</sup> 50ppm	10mg/m <sup>3</sup> 100ppm	n.av. 1670	n.av. 10286	n.av. 2000	n.



#### MATERIAL SAFETY DATA SHEET **Primers**

Section 1 - Product Information

Manufacturer: Akzo Nobel Coatings Inc.

5555 Spalding Drive,

Norcross, GA 30092

USA

Canadian Supplier: Akzo Nobel Coatings Ltd.

110 Woodbine Downs Blvd.

Unit #4 Etobicoke, Ontario Canada M9W 5S6

Emergency Telephone:

For US transportation emergencies call -

Chemtrec: 800-424-9300

For Canadian transportation emergencies

call - Canutec: 613-996-6666

Information:

770-246-8454 (USA 7:00am - 4:00pm Eastern Time) Product Use: primer

Item Numbers (US & Canadian): Autosurfacer LV Sealer 002012 Basefix 790 006052/006053

Autocoat LV Epoxy 001062/001063/001064

Washprimer CR 001040/001042

Plastoflex Primer 001009 Primer PO 006003/006005 Autosurfacer LV 2.1 002081

Washprimer EM CF 001045/001046

#### **Emergency Overview**

Signs of Overexposure: Nausea, cough, dizziness, weakness, headache, chest pain, lack of coordination, shortness of breath, dermatitis, redness and/or pain in eyes.

Emergency First Aid: Move to fresh, remove contaminated clothing, wash effected skin with soap and water, do not use solvents or thinners; if product gets into eyes, remove contact lenses, flush with water for 15 minutes.

Handling: When handling wear an organic vapor cartridge respirator (NIOSH / OSHA), solvent resistant gloves and safety eye protection designed to guard against liquid splashes. Use approved bonding and grounding procedures when transferring to another container. Close all containers tightly after use. Do not eat, drink or smoke in work areas.

Clean-up: Eliminate sources of ignition. Dike to reduce extent of spill. Remove with inert absorbent (vermiculite, clay, Oil-Dry®, Kitty Litter, etc.) using non-sparking tools. Transfer to a grounded metal container, seal container. Dispose of as hazardous waste.

Material Appearance: White, Green, Gray or Yellow

Material Physical Appearance: Liquid

Other Precautions: Vapors are heavier than air and may travel along floors. Material has an offensive odor, Prolonged exposure may reduce the user's sensitivity to the odor, thus reducing the effectiveness of odor as a warning against exposure.

Fire Fighting: Flammable liquid, refer to Guide 127 of the North American Emergency Guide Book. Forms explosive mixture with air, vapors are heavier than air and may travel to a source of ignition and flash back.

NFPA Flammability: I B and/or IC.

Akzo Nobel Coatings Inc. has no oversight with respect to the guidance practices or policies or manufacturing processes of other companies handling or using this material. The information given in this MSDS is only related to the product as shipped in its original condition as described in Section 2, "Hazardous Ingredients" and Section 9 "Physical and Chemical Properties".

These products are considered hazardous under the Federal OSHA Hazard Communication Standard

Section 2 - Hazardous Ingredients % by Vapor Press OSHA Hazardous Ingredient TLV weight

1,2,4 Trimethylbenzene (SARA313)	3.2%	95-63-6	1.7	25ppm	25ppm	5000	n. av.	18000	Tas
Aromatic Solvent	5-10%	000	n. av.	100ppm	n av.	n. av	n. av.	n. av.	n.a
Butanol(SARA313)	12.8%	71-36-3	5.5	n. av.	100ppm	790	3400	8000	n. a
Ethylbenzene(SARA313)	8.8%	100-41-4	7.1	100ppm	100ppm	3500	15486	n. av.	1.0
N-methyl-2-Pyrollidone(SARA313)	1-5%	872-50-4	0.29	100ppm	n. av.	4200	8000	n. av.	0.9
(SARA313)	40.3%	1330-20-7	5.1	100ppm	100ppm	4300	>1700	5000	1.0
Propylene Glycol Methyl Ether	10-20%	107-98-2	12.5	100ppm	n. av.	5660	13000	10000	n.a
Basefix 790 contains:			-			0000	10000	10000	11.0
Aromatic Solvent	1-5%	000	n. av.	100ppm	n. av.	n. av.	n. av.	n. av.	n. a
Butyl Acetate	20-30%	123-86-4	8.0	150ppm	150ppm	10768	17600	2000	1.7
sopropyl Alcohol	1-5%	67-63-0	32.8	400ppm	400ppm	5045	12800	16000	2.3
sobutyl Acetate	20-30%	110-19-0	12.5	150ppm	150ppm	13400	17400	3500	1.3
Toluene (SARA313) (P65)	5.6%	108-88-3	22.0	50ppm	200ppm	636	12305	8000	1.
Kylene-mixed isomers(SARA313)	4.4%	1330-20-7	5.1	100ppm	100ppm	4300	>1700	5000	1.0
Ethylbenzene(SARA313)	1.3%	100-41-4	7.1	100ppm	100ppm	3500	15486	n. av.	1.
1,2,4 Trimelhylbenzene (SARA313)	1.4%	95-63-6	1.7	25ppm	25ppm	5000	n. av.	18000	n.a
Nitrocellulose	1-5%	9004-70-0	n. ap.	n. av.	n. av.	n. av.	n, av.	n. av.	n.a
/ M & P Naphtha	10-20%	8032-32-4	38.0	300ppm	300ppm	n. av.	n, av.	1600	0.
Primer PO contains:						570-72	1		E 111
Butyl Acetate	5-10%	123-86-4	8.0	150ppm	150ppm	10768	17600	2000	1.
Ethylbenzene(SARA313)	17.1%	100-41-4	7.1	100ppm	100ppm	3500	15486	n. av.	1.
(ylene-mixed isomers(SARA313)	75.7%	1330-20-7	5.1	100ppm	100ppm	4300	>1700	5000	1.
Autocoat LV Epoxy contains:									
Methyl Ethyl Ketone(SARA313)	5.7%	78-93-3	77.5	200ppm	200ppm	2737	6480	23500	1.
Epoxy Resin	10-20%	25036-25-3	n. ap.	10mg/m <sup>3</sup>	15mg/m <sup>3</sup>	30000	3000	n. av.	n,a
poxy Resin	1-5%	25068-38-6	n. ap.	n. av.	n. av.	11400	2340	n. av.	n.a
Butyl Acetate	1-5%	123-86-4	8.0	150ppm	150ppm	10768	17600	2000	1.
Butyl Glycidyl Ether	1-5%	2426-08-6	n, ap.	25ppm	50ppm	n. av.	n. av.	n. av.	n.a
C6-C8 Branched Alcohol	1-5%	90438-79-2	22.0	n. av.	n. av.	n. av.	n. av.	n. av.	1.
Titanium Dioxide	5-10%	13463-67-7	n. ap.	10mg/m <sup>3</sup>	10mg/m <sup>3</sup>	n. av.	n. av.	n. av.	n.a
Гаіс	5-10%	14807-96-6	n. ap.	2mg/m <sup>3</sup>	2mg/m <sup>3</sup>	n. av.	n. av.	n. av.	n.a
Ethylbenzene(SARA313)	0.5%	100-41-4	7.1	100ppm	100ppm	3500	15486	n. av.	1.0
Toluene(SARA313)(P65)	0.002%	108-88-3	22.0	50ppm	100ppm	5000	14000	4000	1.3
Carbon Black (P65)	0.2%	1333-86-4	n. ap.	3.5mg/m <sup>3</sup>	3.5mg/m <sup>3</sup>	n. av.	n. av.	n. av.	n.a
Kylene-mixed isomers(SARA313)	2.3%	1330-20-7	5.1	100ppm	100ppm	4300	>1700	5000	1.
Barium Sulfate	5-10%	7727-43-7	n. ap.	10mg/m <sup>3</sup>	15mg/m <sup>3</sup>	n. av.	n. av.	n. av.	n.a
Amorphous Silica	10-20%	112926-00-8	n. ap.	10mg/m <sup>3</sup>	20mg/m <sup>3</sup>	n. av.	n. av.	n. av.	n.a
Calcium Oxide	10-20%	1305-78-8	n. ap.	2mg/m <sup>3</sup>	5mg/m <sup>3</sup>	n. av.	n. av.	n. av.	n.a
Bisphenol A Diglycidyl Ether	5-10%	1675-54-3	n. ap.	n. av.	n, av.	11000	20000	n. av.	n.a
Methyl Isobutyl Ketone(SARA313)	2.6%	108-10-1	15.0	50ppm	100ppm	2080	24950	2000	1.3
Quartz Crystalline Silica (P65) Zinc Phosphate(SARA313)	0.01%	14808-60-7	n. ap.	.1mg/m <sup>3</sup>	.1mg/m <sup>3</sup>	n. av.	n. av.	n. av.	n.a
Autosurfacer LV 2.1 contains:	14.270	7790-90-0	n. ap.	n. av.	n. av.	n. av.	n. av.	n. av.	n,a
Taic	T = 100/ T	14007.00.0		1 2 . 3					_
Butyl Acetate	5-10% 10-20%	14807-96-6 123-86-4	n.ap	2mg/m <sup>3</sup>	2mg/m <sup>3</sup>	n.av.	n.av.	n.av.	n.a
Zinc Phosphate (SARA 313)	8.4%		8.0	150ppm	150ppm	10768	17600	2000	1.
Calcium Carbonate	20-40%	7790-90-0 471-34-1	n.ap	n.av.	n.av.	n.av.	n.av.	n.av.	n.a
Quartz Crystalline Silica (P65)	0.39%	14808-60-7	n.ap		15mg/m <sup>3</sup>	n.av.	n.av.	n.av.	n.a
Titanium Dioxide	20-40%		n.ap.	.1mg/m <sup>3</sup>	.1mg/m <sup>3</sup>	n. av.	n. av.	n. av.	n.a
	20-40%	13463-67-7	n.ap	10mg/m <sup>3</sup>	10mg/m <sup>3</sup>	n.av.	n.av.	n.av.	n.a
Washprimer CR contains:	10.00/	74.00.0			100	mc-		0000	-
Butanol(SARA313)	10.9%	71-36-3	5.5	n. av.	100ppm	790	3400	8000	1
Formaldehyde(SARA313)(P65)	0.1%	50-00-0	9.5	0.3mg/m <sup>3</sup>	0:75mg/m <sup>3</sup>	800	270	590	1
sopropyl Alcohol	40-70%	67-63-0 14807-96-6	32.8	400ppm	400ppm	5045	12800	16000	2
Zinc Chromate(SARA313)(P65)	1-5% 8.1%	13530-65-9	n. ap.	2mg/m <sup>3</sup>	2mg/m <sup>3</sup>	n. av.	n. av.	n. av.	n.
Autosurfacer LV Sealer contains		13330-62-8	n. ap.	01mg/m <sup>3</sup>	.01mg/m <sup>3</sup>	n. av.	n. av.	n. av.	n.
(ylene-mixed isomers (SARA 313)		1220 20 7		1 100	1 400	1000	1 4 7 7 7	5000	-
thylbenzene (SARA 313)	3.1%	1330-20-7	5.1	100ppm	100ppm	4300	>1700	5000	1.
alc	0.7%	100-41-4	7.1	100ppm	100ppm	3500	15486	n. av.	1.
Butyl Acetate	6.1%	14807-96-6	n.ap	2mg/m <sup>3</sup>	2mg/m <sup>3</sup>	n.av.	n.av.	n.av.	n.a
Zinc Phosphate (SARA 313)	6.2%	123-86-4	8.0	150ppm	150ppm	10768	17600	2000	1.
Calcium Carbonate	14.9%	7790-90-0 471-34-1	n.ap	n.av.	n.av.	n.av.	n.av.	n.av.	n.a
Titanium Dioxide	12.3%	13463-67-7	n.ap	10mg/m <sup>3</sup>	15mg/m <sup>3</sup>	n.av.	n.av.	n.av.	n.a
Kaolin	6.1%	1332-58-7	n.ap n.ap	2mg/m <sup>3</sup>	10mg/m <sup>3</sup>	n.av.	n.av.	n.av.	n.a
Methyl Amyl Ketone	12.3%	110-43-0	2.1	50ppin	100ppm	1670	10286	2000	1.
					· · · · · · · · · · · · · · · · · · · ·			2000	



#### MATERIAL SAFETY DATA SHEET Colorbuild 2.1/2.8

Section 1 - Product Information

Manufacturer: Akzo Nobel Coatings Inc.

5555 Spalding Drive Norcross, GA 30092

USA

Canadian Supplier: Akzo Nobel Coatings Ltd.

110 Woodbine Downs Blvd. Unit #4 Etobicoke, Ontario Canada M9W 5S6

Emergency Telephone: For US transportation emergencies call -

Chemtrec: 800-424-9300

For Canadian transportation emergencies

call - Canutec: 613-996-6666

Information:

770-246-8454 (USA 7:00am - 4:00pm Eastern Time) Product Use: primer

Item Numbers (US & Canadian): White 2.1/2.8 002502 Blue 2.1/2.8 002522 Yellow 2.1/2.8 002542

Black 2.1/2.8 002512 Green 2.1/2.8 002532 Red 2.1/2.8 002552

#### **Emergency Overview**

Signs of Overexposure: Nausea, cough, dizziness, weakness, headache, chest pain, lack of coordination, shortness of breath, dermatitis, redness and/or pain in eyes.

Emergency First Aid: Move to fresh, remove contaminated clothing, wash effected skin with soap and water, do not use solvents or thinners; if product gets into eyes, remove contact lenses, flush with water for 15 minutes. Handling: When handling wear an organic vapor cartridge respirator (NIOSH / OSHA), solvent resistant gloves and safety eye protection designed to guard against liquid splashes. Use approved bonding and grounding procedures when transferring to another container. Close all containers tightly after use. Do not eat, drink or smoke in work areas.

Clean-up: Eliminate sources of ignition. Dike to reduce extent of spill. Remove with inert absorbent (vermiculite, clay, Oil-Dry®, Kitty Litter, etc.) using non-sparking tools. Transfer to a grounded metal container, seal container. Dispose of as hazardous waste.

Material Appearance: White, Blue, Green, Red, Black or Yellow

Material Physical Appearance: Liquid

Other Precautions: Vapors are heavier than air and may travel along floors. Material has an offensive odor. Prolonged exposure may reduce the user's sensitivity to the odor, thus reducing the effectiveness of odor as a warning against exposure.

Fire Fighting: Flammable liquid, refer to Guide 127 of the North American Emergency Guide Book. Forms explosive mixture with air, vapors are heavier than air and may travel to a source of ignition and flash back.

NFPA Flammability: IC

Akzo Nobel Coatings Inc. has no oversight with respect to the guidance practices or policies or manufacturing processes of other companies handling or using this material. The information given in this MSDS is only related to the product as shipped in its original condition as described in Section 2, "Hazardous Ingredients" and Section 9 "Physical and Chemical Properties".

Hazardous Ingredient	Percent weight	Section 2 - H	Vapor Press.	ACGIH TLV	OSHA PEL	LD <sub>50</sub>	LD <sub>50</sub>	LC <sub>50</sub>	
Colorbuild 2.1/2.8 contains	the following	ig:			1 1 1	Orai	Derm	Inhai.	LEL
Talc	5-10%	14807-96-6	n.ap	2mg/m <sup>3</sup>	1 2 3				
Zinc Phosphate (SARA 313)	7.8%	7790-90-0	n.ap		2mg/m <sup>3</sup>	n.av.	n.av.	n.av.	n.ap
Calcium Carbonate	10-20%	471-34-1	n.ap	n.av.	n.av.	n.av.	n.av.	n.av.	n.ap
Ethylbenzene (SARA 313)	0.2%	100-41-4	7.1	10mg/m <sup>3</sup>	15mg/m <sup>-3</sup>	n.av.	n.av.	n.av.	n.ap
Tert-butyl Alcohol(SARA313)	3.5%	75-65-0	40.0	100ppm	100ppm	3500	15486	n. av.	1.0
Butanol(SARA313)	1.5%	71-36-3	5.5	100ppm	100ppm	n. av.	n. av.	n. av.	n.ap
p-Chlorobenzotrifluoride	30-40%	98-56-6	5.3	n. av.	100ppm	790	3400	8000	1.7
Quartz Crystalline Silica (P65)	0.05%	14808-60-7		n. av.	n. av.	6800	2700	4479	6.2
Yellow 2.1/2.8 also includes:		14000-00-7	n. ap.	.1mg/m <sup>3</sup>	.1mg/m <sup>3</sup>	n. av.	n. av.	n. av.	n.ap
Ethyl Acetate	1-5%	141-78-6							
Kaolin	1-5%		76.0	400ppm	400ppm	5620	18031	1600	2.2
Red 2.1/2.8 also includes:	1-5%	1332-58-7	n. ap	10mg/m <sup>3</sup>	15mg/m <sup>-3</sup>	n. av.	n. av.	n. av.	n.ap
Monoazo Barium Salt (SARA313)	3.7%	000							
Black 2.1/2.8 also includes:	3.776	000	n. ap.	6mg/m <sup>3</sup>	n. av.	>5000	none	none	n.ap
Carbon Black (P65)	0.8%	4222.00.1							
White 2.1/2.8 also includes:	0.0%	1333-86-4	n. ap.	3.5mg/m <sup>3</sup>	3.5mg/m <sup>3</sup>	n. av.	n. av.	n. av.	n.ap
Titanium Dioxide	T 40 2004 T								
Caolin	10-20%	13463-67-7	n. ap.	10mg/m <sup>3</sup>	10mg/m <sup>3</sup>	n. av.	n. av.	n. av.	
Green 2.1/2.8 also includes:	1-5%	1332-58-7	n. ap	10mg/m <sup>3</sup>	15mg/m <sup>3</sup>	n. av.	n. av.	n. av.	n.ap n.ap
Copper Phthalocyanine Green									ор
LD <sub>50</sub> Oral - rat mg/m <sup>3</sup> , LD <sub>50</sub>	1-5%	1328-53-6	n. ap.	1mg/m <sup>3</sup>	1ma/m3			n. av.	n.ap

Chemicals marked with (SARA313) are subject to the requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA); see Section 15 - Regulatory Information. Chemicals marked with (P65) are regulated in California by Proposition 65; see Section 15 - Regulatory Information.

#### Section 3 - Hazards Identification

Primary Routes of Entry: Inhalation, skin contact, ingestion, eyes.

Exposure Effects Acute and Chronic:

Inhalation: Acute: Nasal and respiratory irritation, dizziness, cough, shortness of breath, dehydration, dizziness, weakness, headache, drowsiness, faligue, nausea, headache, possible unconsciousness, chemical pneumonitis, central nervous system depression and even asphyxiation.

Skin contact: Acute: Extraction of natural oils with resulting dry skin, irritation, redness and dermatitis. Can be absorbed through the skin into the blood.

Eye contact: Acute: Irritation, redness, pain, blurred vision, sensation of seeing halos around lights and reversible damage.

Ingestion: Acute and Chronic: Gastrointestinal irritation, nausea, weakness, fatigue, vomiting and diarrhea; kidney damage, blood system damage.

Chronic: Repeated overexposure to these products may cause central nervous system damage, kidney damage, liver abnormalities, lung damage, cardiac abnormalities, reproductive organ damage, skin sensitization and dermatitis. Other Health Effects:

Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system

#### Section 4 - First Aid Measures

Emergency and First Aid Procedures: In all cases if symptoms persist, seek medical attention.

Inhalation - move to fresh air, give artificial respiration if necessary

Skin contact - remove contaminated clothing, wash with soap and water or recognized skin cleaner. Do not use solvents or thinners.

Eye contact - contact lenses must be removed, flush with water for at least 15 minutes, consult a physician immediately Ingestion - drink one or two glasses of water to dilute. Do not induce vomiting. Consult a physician or poison control center immediately. Treat symptomatically.

Medical Conditions Prone to Aggravation: pulmonary conditions, liver conditions, kidney conditions, neurological disorders, pregnancy, reproductive system disorders.



#### MATERIAL SAFETY DATA SHEET Autobase Plus Toners

Section 1 - Product Information

Manufacturer: Akzo Nobel Coatings Inc.

Canadian Supplier: Akzo Nobel Coatings Ltd.

5555 Spalding Drive Norcross, GA 30092

110 Woodbine Downs Blvd. Unit #4 Etobicoke, Ontario

USA

Canada M9W 5S6

Emergency For US transportation emergencies call -Telephone: Chemtrec: 800-424-9300

Q348 049348

Q455 049455

For Canadian transportation emergencies call - Canutec: 613-996-6666

Q140 049140

770-246-8454 (USA 7:00am - 3:00pm Eastern Time) Information:

Q328 049328

Q452 049452

Item and Color Numbers

Product Use: color base coat

Q065 049065 Q066 049066 Q190 049190 Q191 049191 Q235 049235 Q239 049239

Q070 049070 Q110 049110 Q195 049195 Q198 049198 Q271 049271 Q279 049279 Q431 049431 Q436 049436 Q550 049550 Q564 049564

Q231 049231 Q325 046325 Q437 049437 Q652 049652 Q726 049726

Q232 049232 Q326 049326 Q439 049439 Q671 049671 Q766 049766

Q160 049160

Q673 049673 Q678 049678 Q811B 049811 Q811E 049812 Q811U 049817 Q843H 049818 Q922M 049923 Q925M 049924 Q941M 049929 Q943M 049930

Q725 049725 Q811J 049813 Q811M 049814 Q833G 049819 Q911M 049920 Q925N 049925 Q933F 049926 Q951F 049931

Q724 049724

Q811P 049815 Q914C 049921 Q933M 049927 Q954H 049933 Q811R 049816 Q914F 049922 Q941F 049928 Q954M 049934

Q954S 049935 Q964F 049936

Q952M 049932 Q964S 049937 Q975S 049938

**Emergency Overview** 

Signs of Overexposure: Nausea, cough, dizziness, weakness, headache, chest pain, lack of coordination, shortness of breath, dermatitis, redness and/or pain in eyes.

Emergency First Aid: Move to fresh air, remove contaminated clothing, wash effected skin with soap and water, do not use solvents or thinners; if product gets into eyes, remove contact lenses, flush with water for 15 minutes. Handling: When handling wear an organic vapor cartridge respirator (NIOSH / OSHA), solvent resistant gloves and safety eye protection designed to guard against liquid splashes. Use approved bonding and grounding procedures when transferring to another container. Close all containers tightly after use. Do not eat, drink or smoke in work areas. Clean-up: Eliminate sources of ignition. Dike to reduce extent of spill. Remove with inert absorbent (vermiculite, clay, Oil-Dry®, Kitty Litter, etc.) using non-sparking tools. Transfer to a grounded metal container, seal container. Dispose of

as hazardous waste. Material Appearance: Colored

Material Physical Appearance: Liquid

Other Precautions: Vapors are heavier than air and may travel along floors. Material has an offensive odor. Prolonged exposure may reduce the user's sensitivity to the odor, thus reducing the effectiveness of odor as a warning against exposure. Fire Fighting: Flammable liquid, refer to Guide 127 of the North American Emergency Guide Book, Forms explosive mixture with air, vapors are heavier than air and may travel to a source of ignition and flash back. NFPA Flammability: 1B or 1C

Akzo Nobel Coatings Inc. has no oversight with respect to the guidance practices or policies or manufacturing processes of other companies handling or using this material. The information given in this MSDS is only related to the product as shipped in its original condition as described in Section 2, "Hazardous Ingredients" and Section 9 "Physical and Chemical Properties"

Date of Preparation: January 7, 2002

Hazardous Ingredient	Percent	Section 2 -	Vapor	4000					
	weight	CAS No	Press	ACGIH TLV	OSHA	LD <sub>50</sub>	LD <sub>50</sub> Derm	LC <sub>50</sub>	1 .
Q065 Connector contains:		0.10.110	171000	ILL	PEL	Oral	Derm	Inhal	LE
Xylene-mixed isomers (SARA313)	13.8%	1330-20-7	5.1	1	-				
Ethylbenzene (SARA313)	3.9%	100-41-4	7.1	100ppm	100ppm	4300	>1700	5000	1.0
Propylene Glycol Methyl Ether Acetate	1-5%	108-65-6	3.4	100ppm	100ppm	3500	15486	n. av.	1.0
Butanol (SARA313)	3.2%	71-36-3	5.5	100ppm	n. av.	8532	5000	n. av.	1.5
Aromatic Solvent	1-5%	000	n.av.	n. av.	100ppm	790	3400	8000	1.7
Isopropanol	1-5%	67-63-0	32.8	100ppm	n.av.	n. av	n. av.	n. av.	n.a
Cellulose Acetate Butyrate	5-10%	9004-36-8	n. ap.	400ppm n. av	400ppm	5045	12800	16000	2.3
Propylene Glycol Methyl Ether	1-5%	107-98-2	12.5	100ppm	n. av.	n. av.	n. av.	n. av.	h.ag
Butyl Acetate	45-50%	123-86-4	8.0	150ppm	n. av. 150ppm	5660	13000	10000	n.a
Toluene(SARA313)(P65)	0.04%	108-88-3	22.0	50ppm		10768	17600	2000	1.7
All toners contain the followin	g:			у осрони	200ppm	636	12305	8000	1.1
Butyl Acetate	20-45%	123-86-4	8.0	160		-	-		100
Propylene Glycol Methyl Ether Acetate	1-20%	108-65-6	3.4	150ppm 100ppm	150ppm	10768	17600	2000	1.7
Acrylic Resin	1-15%	000	n. ap.		n. av.	8532	5000	n. av.	1.5
Propylene Glycol Methyl Ether	1-15%	107-98-2	12.5	n. av.	n, av.	n. av.	n. av.	n. av.	n.ap
Xylene-mixed isomers (SARA313)	5-15%	1330-20-7	5.1	100ppm	n. av.	5660	13000	10000	n.av
Butanoi (SARA313)	1-20%	71-36-3	5.5	100ppm	100ppm	4300	>1700	5000	1.0
Cellulose Acetate Butyrate	1-10%	9004-36-8	n.ap.	n. av.	100ppm	790	3400	8000	1.7
Ethylbenzene (SARA313)	1.5%	100-41-4	7.1		n. av.	n. av.	n. av.	n. av.	n.ap
Diacetone Alcohol	1-5%	123-42-2	0.9	100ppm	100ppm	3500	15486	n. av.	1.0
Toluene(SARA313)(P65)	<0.75%	108-88-3	22.0	50ppm	50ppm	4000	13500	n.av.	1.8
Q070 also contains:		100 00 3	22.0	50ppm	200ppm	636	12305	8000	1.1
Isopropanol	10-15%	67-63-0				OR DELL	COPINE.	ALCOHOL: N	
Q110 and Q195 also contain:	1011376	07-63-0	32.8	400 ppm	400 ppm	5045	12800	12000	2.3
Aromatic Solvent				D. Courses in					-
Amorphous Silica	1-5%	000	n, av.	100ppm	n. av.	n. av.	n. av.	n. av.	n. av
Alumina Trihydrozide	1-5%	112926-00-8	n.ap	10mg/m <sup>3</sup>	20mg/m <sup>3</sup>	n. av.	n. av.	n. av.	n.av
Titanium Dioxide	5-25%	21645-51-2	n.ap	2mg/m <sup>3</sup>	n. av.	n. av.	n. av.	n. av.	n.ap
Q140 also contains:	3-23%	13463-67-7	n.ap	10mg/m <sup>-5</sup>	10mg/m <sup>3</sup>	n.av.	n.av.	n.av.	n.ap
sopropanol									Triage
2-butoxyethanol (SARA313)	1-5%	67-63-0	32.8	400 ppm	400 ppm	5045	12800	12000	2.3
Carbon Black(P65)	2.53%	111-76-2	0.4	205	505	470	220	450	1.1
	1-5%	1333-86-4	n.ap	3.5mg/m <sup>3</sup>	3.5mg/m <sup>3</sup>	n.av.	n.av.	n.av.	
Q160 also contains:	ASSESSED OF		10000			71120	11,444	mav.	n.ap
Carbon Black(P65)	1-5%	1333-86-4	n.ap	3.5mg/m <sup>3</sup>	3.5mg/m <sup>3</sup>	n.av.	- T	-	
Q190 and Q191 also contain:					D. Seringrill	ri.av.	n.av.	n.av.	n.ap
Amorphous Silica	1-10%	112926-00-8	n.ap	10mg/m <sup>3</sup>	20				
2198 also contains:	Commission		11.49	ronsgrin-	20mg/m <sup>3</sup>	n. av.	n. av.	n. av.	n.ap
Graphite	5-10%	7782-42-5	n.ap	2-11		12.55		- William	
2231, Q271, Q452 and Q726 als	o contair	1102-42-3	n.ap	2mg/m <sup>3</sup>	5mg/m <sup>-3</sup>	>2000	n.av.	n.av.	n.ap
-butoxyethanol (SARA313)	1-5%	111-76-2							
2239 also contains:	11-276	111-76-2	0.4	205	505	470	220	450	1.1
on Oxide	+ 48 T	1222			- di- 100		251010	1000	
2326 also contains:	1-5%	1317-61-9	n-ap	10mg/m <sup>3</sup>	10mg/m <sup>3</sup>	n.av.	n.av.	n.av.	n.ap
2320 also contains:		7.65.1							map
-butoxyethanol (SARA313)	1.26%	111-76-2	0.4	205	50S	470	220	450 T	
Izo Pigment	10-15%	000	n.ap		n.av	>2000	n.av.		1.1
2328, Q833G, Q922M, Q933F, Q	933M, Q9	43M Q952M	also co	ntain:		22.00	11.04	n.av.	n.ap
OT GAME	1-15%	1309-37-1	n.ap	5mg/m <sup>3</sup>	10mg/m <sup>3</sup>	n.av.	n.av.		-
2431 also contains:	-			amgin	romgmi- 1	n.av.	n.av.	n.av.	n.ap
-butoxyethanol (SARA313)	1,15%	111-76-2	0.4	205	700 T	100	-		
felamine	1-5%	108-78-1	n.ap	n.av.	50\$	470	220	450	1.1
439 also contains:	100000		- ap	11.44.	n.av.	3161	>1000	3248	n.ap
butoxyethanol (SARA313)	2.30%	111-76-2	0.4	224			Trong I	735	11.1
455 also contains:	2.0076	711-70-2	0.4	20S	50\$	470	220	450	1.1
	15-20% T	14040 00 0							
550, Q564, Q652, Q671 also co	15-20%	14059-33-7	n.ap	05mg/m <sup>3</sup>	.5mg/m <sup>3</sup>	n.av.	n.av.	n.av.	n.ap
Phthalocyanine					La de la constante de la const	200	- 16		
- Indicate of the second	5-15%	000	n.ap	1mg/m <sup>-3</sup>	1mg/m <sup>3</sup>	n.av.	n.av.	n.av.	n.ap
673 also contains:			A 5-1-114						- Aug
butoxyethanol (SARA313)									
13000313)	1.20%	111-76-2	0.4	205	505	470	220	450	1.1



#### MATERIAL SAFETY DATA SHEET Clear Coatings

Section 1 - Product Information

Akzo Nobel Coatings Inc. Manufacturer:

Canadian Supplier: Akzo Nobel Coatings Ltd. 5555 Spalding Drive

Norcross, GA 30092

110 Woodbine Downs Blvd. Unit #4 Etobicoke, Ontario Canada M9W 5S6

Emergency Telephone:

For US transportation emergencies call -

Chemtrec: 800-424-9300

For Canadian transportation emergencies

call - Canutec: 613-996-6666

Information:

770-246-8454 (USA 7:00am - 4:00pm Eastern Time)

Product Use: clear coat

Item Numbers (US & Canadian): .

Autoclear II LV 001158 Autoclear LV Mat 001356 Autocoat LV Clear High Solids 001192 - NA

#### **Emergency Overview**

Signs of Overexposure: Nausea, cough, dizziness, weakness, headache, chest pain, lack of coordination, shortness of breath, dermatitis, redness and/or pain in eyes.

Emergency First Aid: Move to fresh, remove contaminated clothing, wash effected skin with soap and water, do not

use solvents or thinners; if product gets into eyes, remove contact lenses, flush with water for 15 minutes. Handling: When handling wear an organic vapor cartridge respirator (NIOSH / OSHA), solvent resistant gloves and safety eye protection designed to guard against liquid splashes. Use approved bonding and grounding procedures when transferring to another container. Close all containers tightly after use. Do not eat, drink or smoke in work areas.

Clean-up: Eliminate sources of ignition. Dike to reduce extent of spill. Remove with inert absorbent (vermiculite, clay, Oil-Dry®, Kitty Litter, etc.) using non-sparking tools. Transfer to a grounded metal container, seal container. Dispose of

as hazardous waste.

Material Appearance: Clear

Material Physical Appearance: Liquid

Other Precautions: Vapors are heavier than air and may travel along floors. Material has an offensive odor. Prolonged exposure may reduce the user's sensitivity to the odor, thus reducing the effectiveness of odor as a warning against exposure.

Fire Fighting: Flammable liquid, refer to Guide 127 of the North American Emergency Guide Book.

NFPA Flammability: IC

Akzo Nobel Coatings Inc. has no oversight with respect to the guidance practices or policies or manufacturing processes of other companies handling or using this material. The information given in this MSDS is only related to the product as shipped in its original condition as described in Section 2, "Hazardous Ingredients" and Section 9 "Physical and Chemical Properties\*.

#### Section 2 - Hazardous Ingredients

Hazardous Ingredient	% by weight	CAS No.	Vapor Press.	ACGIH TLV	OSHA PEL	LD <sub>50</sub> Oral	LD <sub>50</sub> Derm	LC <sub>50</sub> Inhal	LEL
Autocoat LV Clear High Solids co	ontains:								
Aromatic Solvent	1-5%	000	n. av.	100ppm	n. av.	n. av.	n. av.	n. av.	n. av
1,2,4 Trimethylbenzene (SARAS13)	1.0%	05-63-6	1.7	25ppm	28ppm	8000	n. av.	18000	n.d
Benzotriazole Complex	1-5%	25973-55-1	n. ap.	n. av.	n. av.	7750	1100	0.4mg/l	n.ac
Butyl Acetate	20-40%	123-86-4	8.0	150ppm	150ppm	10768	17600	2000	1.7
Ethyl Amyl Ketone	1-5%	541-85-5	2.0	25ppm	25ppm	3500	16000	n. av.	n. a
Methyl Amyl Ketone	5-10%	110-43-0	2.1	50ppm	100ppm	1670	10286	2000	1.1
Propylene Glycol Methyl Ether Acetate	1-5%	108-65-6	3.4	100ppm	n. av.	8532	5000	n. av.	n.av
Toluene(SARA313)(P65)	0.3%	108-88-3	22.0	50ppm	200ppm	636	12305	8000	1.1
Ethylbenzene(SARA313)	0.5%	100-41-4	7.1	100ppm	100ppm	3500	15486	n. av.	1.0
Xylene-mixed isomers(SARA313)	2.1%	1330-20-7	5.1	100ppm	100ppm	4300	>1700	5000	1.0
Autoclear LV Mat contains:									
Aromatic Solvent	5-10%	000	n. av.	100ppm	n. av.	n. av.	n. av.	n. av.	n. a
Amorphous Silica	1-5%	112926-00-8	n. ap.	10mg/m <sup>3</sup>	6mg/m <sup>3</sup>	3160	n. av.	n. av.	n.ar
Benzotriazole Complex	1-5%	25973-55-1	n. ap.	n. av.	n. av.	7750	1100	0.4mg/l	n.ac
Butyl Acetate	10-20%	123-86-4	8.0	150ppm	150ppm	10768	17600	2000	1.7
Ethyl Amyl Ketone	1-5%	541-85-5	2.0	25ppm	25ppm	3500	16000	n. av.	n. a
Methyl Amyl Ketone	10-20%	110-43-0	2.1	50ppm	100ppm	1670	10286	2000	1.1
Propylene Glycol Methyl Ether Acetate	1-5%	108-65-6	3.4	100ppm	n. av.	8532	5000	n. av.	n.av
Ethylbenzene(SARA313)	0.5%	100-41-4	7.1	100ppm	100ppm	3500	15486	n. av.	1.0
Xvlene-mixed isomers(SARA313)	2.1%	1330-20-7	5.1	100ppm	100ppm	4300	>1700	5000	1.0
Synthetic Amorphous Silica	10-20%	63231-67-4	n. ap.	10mg/m <sup>3</sup>	6mg/m <sup>3</sup>	31600	2000	n. av.	n.ap
Toluene(SARA313)(P65)	1.3%	108-88-3	22.0	50ppm	100ppm	5000	14000	4000	1.2
Autoclear II LV contains:									
Benzotriazole Complex	1-5%	25973-55-1	n. ap.	n. av.	n. av.	7750	1100	0.4mg/l	n.ap
Aromatic Solvent	1-5%	000	n. av.	100ppm	n. av.	n. av.	n. av.	n. av.	n. a
Butyl Acetate	5-10%	123-86-4	8.0	150ppm	150ppm	10768	17600	2000	1.7
1,2,4 Trimethylbenzene (SARA313)	1.5%	95-63-6	1.7	25ppm	25ppm	5000	n. av.	18000	n.av
Propylene Glycol Methyl Ether Acetate	1-5%	108-65-6	3.4	100ppm	n. av.	8532	5000	n. av.	n.av
b-Chlorobenzotrifluoride	40-50%	98-56-6	5.3	n. av.	n. av.	n. av.	n. av.	n. av.	n. av
Xylene-mixed isomers(SARA313)	1.7%	1330-20-7	5.1	100ppm	100ppm	4300	>1700	5000	1.0
Ethylbenzene(SARA313)	0.4%	100-41-4	7.1	100ppm	100ppm	3500	15486	n. av.	1.0

LD<sub>50</sub> Oral - rat mg/m<sup>3</sup>, LD<sub>50</sub> Dermal - rabbit mg/m<sup>3</sup>, LC<sub>50</sub> Inhalation - rat mg/m<sup>3</sup> unless otherwise specified.

Chemicals marked with (SARA313) are subject to the requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA); see Section 15 - Regulatory Information. Chemicals marked with (P65) are regulated in California by Proposition 65; see Section 15 - Regulatory Information.

#### Section 3 - Hazards Identification

Primary Routes of Entry: Inhalation, skin contact, ingestion, eyes.

**Exposure Effects Acute and Chronic:** 

Inhalation: Acute: Nasal and respiratory irritation, nausea, cough, shortness of breath, dehydration, dizziness, weakness, headache, drowsiness, fatigue, chest pain, vomiting, central nervous system effects, asphyxiation.

Skin contact: Acute: Extraction of natural oils with resulting dry skin, irritation, redness and dermatitis. Can be absorbed through the skin into the blood causing drowsiness.

Eye contact: Acute: Irritation, redness, pain, blurred vision, sensation of seeing halos around lights and reversible damage.

Ingestion: Acute: Gastrointestinal irritation, nausea, vomiting, diarrhea, weakness, drowsiness, fatigue, lack of-coordination, central nervous system effects, depression.

Chronic: Repeated overexposure to this product may cause central nervous system damage, kidney damage, liver abnormalities, lung damage, cardiac abnormalities, reproductive organ damage, eye damage.

Other Health Effects:

Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.

#### Section 4 - First Aid Measures

Emergency and First Aid Procedures: In all cases if symptoms persist, seek medical attention.

## **MSDSs for Murphy Coatings**

SECTION I - PRODUCT: CARBOZINC 11 HS BASE (0249A1NL) Date: 11/08/99 Replaces 09/14/99 ( aka CARBO ZINC 11 HS BASE CHEMTREC TRANSPORTATION EMERGENCY PHONE NO.: 800-424-9300 PITTSBURGH POISON CONTROL CENTER HEALTH EMERGENCY NO.: 412-681-6669 SECTION II - HAZARDOUS INGREDIENTS EXPOSURE LIMITS ICAL NAME (A) (B) (C) (D) (E) L SILICATE P89-882 40% NE NE NE CHEMICAL NAME ALKYL SILICATE 40% NE NE 25% 1000 PPM NE 64-17-5 10% 100 PPM 150 PPM NE 5% 3MG/M3 NE NE PM SOLVENT 107-98-2 12001-26-2 NE MICA 5% 3MG/M3 NE 5% 3.5MG/M3 NE COLOR PIGMENT MIXTURE NE NE NE METHYL SILICATE 681-84-5 1% 1PPM ADDITIONAL DATA HAZARDOUS INGREDIENTS (F) (G) CHEMICAL NAME NO/NO NOT AVAILABLE ALKYL SILICATE NO/NO/1,2,3 7060MG/KG RAT, ORAL ETHYL ALCOHOL 20000PPM/10HRS RAT, INHALATION NO/YES/1,2,3 >5180 MG/KG, ORAL, RAT PM SOLVENT 10000 PPM/4HRS RAT, INHALATION NO/NO NOT AVAILABLE COLOR PIGMENT NOT AVAILABLE NO/YES METHYL SILICATE NOT AVAILABLE NO/NO

TABLE (A) CAS NUMBER (B) LESS THAN WT (C) TLV-TWA (D) STEL (E) CEILING (F) TOXICITY DATA (LD50/Route,LC50/Route) (G) SARA 302/SARA 313/ SARA 311-312 CATEGORIES/CERCLA. NE = not established, NR = not required, NO = no. Color Pigment Mixture may contain Iron Oxides, Titanium Dioxide, Carbon Black, and other particulates not otherwise regulated in varying amounts depending on color of product.

WHMIS CLASSIFICATION: B2 -- D2B HMIS/NFPA CLASSIFICATION: HEALTH 3, FLAMMABILITY 3, REACTIVITY 1, PERSONAL PROTECTION CODE G, NFPA FIRE FIGHTING PHASE 4

#### SECTION III - PHYSICAL DATA:

BOILING RANGE: 173F(78C)-248F(120C). VAPOR DENSITY: Heavier than air. EVAPORATION RATE: Slower than ether. VOLATILE BY WEIGHT 40 %. VOLATILE BY VOLUME: 66 %. PRODUCT WT/GAL: 10.6 LBS/U.S.GAL. 1.27 sp gr.

#### SECTION IV - FIRE AND EXPLOSION HAZARD DATA:

FLAMMABILITY CLASSIFICATION: FLASH POINT: 55 F(12C) (Setaflash) LEL 1.8 % UEL 19.0 %.
OSHA-FLAMMABLE LIQUID/OSHA/CLASS/1B, DOT-FLAMMABLE LIQUID NOS\*,3,UN1993,PGII,
CANADIAN TDGA: FLAMMABLE LIQUID NOS\* 3,UN1993,PGII
EXTINGUISHING MEDIA: Dry Chemical, Foam, Carbon Dioxide, Water Fog.

FIRE AND EXPLOSION HAZARDS: Vapors are heavier than air and will accumulate.

## PRODUCT: CARBOZINC 11 HS BASE (0249A1NL) Date: 11/08/99 Replaces 09/14/99

Vapors will form explosive concentrations with air. Vapors travel long distances and will flashback. Use mechanical ventilation when necessary to keep percent vapor below the "Lower Explosion Level" (LEL). Eliminate all ignition sources. Keep away from sparks, open flames and heat sources. All electric equipment and installations should be made and grounded in accordance with the National Electrical Code. In areas where explosion hazards exist, workers should be required to use nonferrous tools and to wear conductive and non-sparking shoes.

SPECIAL FIRE FIGHTING PROCEDURES: Evacuate hazard area of unprotected personnel. Use a NIOSH approved self-contained breathing unit and complete

### exposure.

INHALATION: Harmful if inhaled, may affect the brain or nervous system, causing dizziness, headache or nausea. May cause nose and throat irritation. CONTACT: May be harmful if absorbed through the skin. May cause eye irritation. May cause skin irritation.

body protection. Cool surrounding containers with water in case of fire

NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: If you have a condition that could be aggravated by exposure to dust or organic vapors see a physician prior to use.

PRIMARY ROUTE(S) OF ENTRY: Inhalation, Dermal, Ingestion.

EMERGENCY FIRST AID PROCEDURES: When exposed always get medical attention. EYE CONTACT: Flush with water for 15 minutes.

SKIN CONTACT: Wash with soap and water. Remove contaminated clothing and clean before reuse.

INHALATION: Remove to fresh air. Provide oxygen if breathing is difficult. Use artificial respiration if not breathing. Get medical attention. IF SWALLOWED: DO NOT INDUCE VOMITING!! Always get medical attention.

#### SECTION VI - REACTIVITY DATA:

SECTION V - HEALTH HAZARD DATA:

STABILITY: This product is stable under normal storage conditions.
HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, nitrogen oxides, and unidentified organic compounds. Consider all smoke and fumes from burning material as very hazardous. Welding, cutting or abrasive grinding can create smoke and fumes. Do not breathe any fumes or smoke from these operations. CONDITIONS TO AVOID: Heat, sparks, and open flames.
INCOMPATIBILITY: Avoid contact with strong oxidizing agents.

#### SECTION VII - SPILL OR LEAK PROCEDURES:

STEPS TO BE TAKEN IN CASE OF SPILL: Eliminate all ignition sources. Handling equipment must be grounded to prevent sparking. Evacuate the area of unprotected personnel. Wear appropriate personal protection clothing and

PRODUCT: CARBOZINC 11 HS BASE (0249AlNL)
Date: 11/08/99 Replaces 09/14/99

equipment. Follow safe handling and use guidelines in Section VIII. Contain and soak up residual with an absorbent (clay or sand). Take up absorbent material and seal tightly for proper disposal. Dispose of in accordance with local, state and federal regulations. Refer to Section II for Sara Title III and CERCLA information.

#### SECTION VIII - SAFE HANDLING AND USE INFORMATION:

RESPIRATORY PROTECTION: Use only with ventilation to keep levels below exposure guidelines. (Section II). User should test and monitor exposure levels to insure all personnel are below guidelines. If not sure or if not able to monitor use MSHA/NIOSH approved supplied air respirator. Follow all current OSHA requirements for respirator use.

VENTILATION: Use explosion-proof ventilation when required to keep below health exposure guidelines and Lower Explosion Limit (LEL).

SKIN AND BYE PROTECTION: Recommend impervious gloves, clothing and safety glasses with side shields or chemical goggles to avoid skin and eye contact. If material penetrates to skin, change gloves and clothing. Hypersensitive persons should wear gloves or use protective cream.

HYGIENIC PRACTICES: Wash with soap and water before eating, drinking, applying cosmetics, or using toilet facilities. Use of a hand cleaner is recommended. Launder contaminated clothing before reuse. Leather shoes can absorb and pass through hazardous materials. Check shoes carefully after soaking before reuse.

APPLICATION: Use only in accordance with Carboline application instructions, container label and Product Data Sheet.

#### SECTION IX - SPECIAL PRECAUTIONS:

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep away from heat, sparks, open flame, and strong oxidizing agents. Keep containers closed. Store in cool, dry place with adequate ventilation. If pouring or transferring materials, ground all containers and tools.

OTHER PRECAUTIONS: Do not weld, heat, cut or drill on full or empty containers.

The information contained herein is, to the best of our knowledge and belief accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations.

Carboline Company 350 Hanley Ind. Ct. St. Louis, MO 63144 PHONE NO. 314-644-1000 FOR INDUSTRIAL USE ONLY

#### CARBOLINE CO. MATERIAL SAFETY DATA SHEET PRODUCT: CARBOZING 11 HS BASE

Date: 11/08/99 Replaces 09/14/99 SPECIFIC STATE REGULATORY INFORMATION

NEW JERSEY PENNSYLVANIA Non-Hazardous Materials above 1 Percent: Name CAS Pct
SILICA AMORPHOUS NE 25% SILICA AMORPHOUS NE

#### CALIFORNIA

WARNING: This product contains a chemical(s) known to the State of California to cause cancer, and birth defects or other reproductive harm. (0249A1NL)

SECTION I - PRODUCT: ZINC FILLER

(0231B1NL)

NO/YES/2

Date: 07/09/99 Replaces 02/24/99

CHEMTREC TRANSPORTATION EMERGENCY PHONE NO.: 800-424-9300 PITTSBURGH POISON CONTROL CENTER HEALTH EMERGENCY NO.: 412-681-6669

SECTION II - HAZARDOUS INGREDIENTS EXPOSURE LIMITS

(A) (B) (C) (D) (E) CHEMICAL NAME 7440-66-6 100% 10MG/M3 15MG/M3 ZINC DUST NE .05MG/M3 0.20% .05MG/M3 7439-92-1 LEAD NE

HAZARDOUS INGREDIENTS ADDITIONAL DATA

NOT AVAILABLE

CHEMICAL NAME (G) (F)

ZINC DUST NOT AVAILABLE NO/YES/2,5/ 1000#

TABLE (A) CAS NUMBER (B) LESS THAN WT (C) TLV-TWA (D) STEL (E) CEILING (F) TOXICITY DATA (LD50/Route, LC50/Route) (G) SARA 302/SARA 313/ SARA 311-312 CATEGORIES/CERCLA. NE = not established, NR = not required, NO = no. Color Pigment Mixture may contain Iron Oxides, Titanium Dioxide, Carbon Black, and other particulates not otherwise regulated in varying amounts depending on color of product.

WHMIS CLASSIFICATION: D2A -- D2B -- F HMIS/NPPA CLASSIFICATION: HEALTH 3, FLAMMABILITY 0, REACTIVITY 0, PERSONAL PROTECTION CODE E, NFPA FIRE FIGHTING PHASE 4

## SECTION III - PHYSICAL DATA:

LEAD

BOILING RANGE: N/A. VAPOR DENSITY: N/A EVAPORATION RATE: N/A VOLATILE BY WEIGHT 0 %. VOLATILE BY VOLUME: 0 %. PRODUCT WT/GAL: 58.5 LBS/U.S.GAL. 7.03 sp gr.

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA:

FLAMMABILITY CLASSIFICATION: FLASH POINT: No Flash Point. LEL: N/A UEL: N/A

OSHA-, DOT-ZINC FILLER, NOT REGULATED, CANADIAN TDGA: ZINC DUST UN1436 4.3 PGII (DANGEROUS WHEN WET) (DECLASSIFICATION REQUESTED) NON REGULATED POWDER: The product has been tested and shown to fall well below the level of gas emission when exposed to water (49CFR PART 173 E,4) and is therefore not a regulated product and is not defined as dangerous when wet. Product is packed in steel or plastic water tight containers. EXTINGUISHING MEDIA: Dry Chemical, Carbon Dioxide, Since material is packed in water tight containers water may be used to cool containers. UNUSUAL FIRE AND EXPLOSION HAZARDS: Recent testing has shown that this type of zinc powder evolves only a small amount of hydrogen gas when in contact with moisture or water. Also with the material packed in small containers that are water proof only broken or opened containers will have exposed

powder. Contact with alkalis, or acids should be avoided because the

## PRODUCT: ZINC FILLER

(0231B1NL)

Date: 07/09/99 Replaces 02/24/99

reaction will liberate sufficent quanitities of hydrogen gas and may explode on contact with oxidizing agents such as sulfur and oxygen or strong oxidizers.

SPECIAL FIRE FIGHTING PROCEDURES: Evacuate hazard area. Wear protective clothing. Use a NIOSH approved self-contained breathing unit. Cover all open zinc dust containers. Do not spread out material. Water can react with hot zinc dust to form hydrogen gas.

#### SECTION V - HEALTH HAZARD DATA:

INHALATION: Overexposure will be irritating to mucous membranes.

CONTACT: May cause eye irritation. May cause skin irritation.

NOTICE: Contains LEAD which may cause blood disorders and lead poisoning.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: If you have a condition that could be aggravated by exposure to dust or organic vapors see a physician prior to use.

PRIMARY ROUTE(S) OF ENTRY: Inhalation, Dermal, Ingestion.

EMERGENCY FIRST AID PROCEDURES: When exposed always get medical attention.

EYE CONTACT: Flush with water for 15 minutes.

SKIN CONTACT: Wash with soap and water. Remove contaminated clothing and clean before reuse.

INHALATION: Remove to fresh air. Provide oxygen if breathing is difficult. Use artificial respiration if not breathing. Get medical attention. IF SWALLOWED: DO NOT INDUCE VOMITING!! Always get medical attention.

#### SECTION VI - REACTIVITY DATA:

STABILITY: This product is stable under normal storage conditions.
HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.
HAZARDOUS DECOMPOSITION PRODUCT: Under fire conditions hot zinc dust that is exposed to water could generate Hydrogen gas. When welding, heating or torch cutting surfaces coated with a zinc coating Zinc Oxide Fume can be produced and could cause "metal fume fever". Use exhaust systems and proper breathing protection to avoid breathing the fumes resulting from these conditions.
CONDITIONS TO AVOID: Avoid water contact with opened zinc powder containers.
INCOMPATIBILITY: Avoid contact with strong oxidizing agents either acids or

### SECTION VII - SPILL OR LEAK PROCEDURES:

STEPS TO BE TAKEN IN CASE OF SPILL: Use dry cleanup methods that do not disperse dust into the air. Avoid breathing the dust. take up the material and seal tightly for proper disposal.

## SECTION VIII - SAFE HANDLING AND USE INFORMATION:

RESPIRATORY PROTECTION: Use only with ventilation to keep levels below exposure guidelines. (Section II). User should test and monitor exposure levels to insure all personnel are below guidelines. If not sure or if not

PRODUCT: ZINC FILLER

(0231B1NL)

Date: 07/09/99 Replaces 02/24/99

able to monitor use MSHA/NIOSH approved supplied air respirator.
VENTILATION: Use explosion-proof ventilation when required to keep below health exposure guidelines and Lower Explosion Limit (LEL).
SKIN AND EYE PROTECTION: Recommend impervious gloves, clothing and safety glasses with side shields or chemical goggles to avoid skin and eye contact. If material penetrates to skin, change gloves and clothing.
HYGIENIC PRACTICES: Wash with soap and water before eating, drinking, applying cosmetics, or using toilet facilities. Use of a hand cleaner is recommended. Launder contaminated clothing before reuse. Leather shoes can absorb and pass through hazardous materials. Check shoes carefully after soaking before reuse.

#### SECTION IX - SPECIAL PRECAUTIONS:

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep away from heat, sparks, open flame, and strong oxidizing agents. Keep containers closed. Store in cool, dry place with adequate ventilation. If pouring or transferring materials, ground all containers and tools.

OTHER PRECAUTIONS: Do not weld, heat, cut or drill on full or empty containers.

The information contained herein is, to the best of our knowledge and belief accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations.

Carboline Company 350 Hanley Ind. Ct. St. Louis, MO 63144 PHONE NO. 314-644-1000 FOR INDUSTRIAL USE ONLY

## CARBOLINE CO. MATERIAL SAFETY DATA SHEET

PRODUCT: ZINC FILLER

Date: 07/09/99 Replaces 02/24/99 SPECIFIC STATE REGULATORY INFORMATION

(0231B1NL)

NEW JERSEY PENNSYLVANIA Non-Hazardous Materials above 1 Percent: Name CAS Pct

No materials meet this criteria

## CALIFORNIA

WARNING: This product contains a chemical(s) known to the State of California to cause cancer, and birth defects or other reproductive harm. SECTION I - PRODUCT: CARBOZINC HS ACTIVATOR
Date: 07/17/95 Replaces 03/22/94

(0249C1NL)

CHEMTREC TRANSPORTATION EMERGENCY PHONE NO.: 800-424-9300 PITTSBURGH POISON CONTROL CENTER HEALTH EMERGENCY NO.: 412-681-6669

SECTION II - HAZARDOUS	INGREDIENTS	EXPOSURE	LIMITS
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CHEMICAL NAME	(A)	(B)	(C)		(1	0)	(E	)
PM SOLVENT	107-98-2	90%	100 P	MS	150	PPM	NE	
N-BUTANOL	71-36-3	10%	NE		50P	PM/SKIN	NE	
ZINC CHLORIDE	7646-85-7	5%	NE		NE		NE	
TITANATE	5593-70-4	5%	NE		NE		NE	

#### HAZARDOUS INGREDIENTS ADDITIONAL DATA

CHEMICAL NAME	(P)	(G)
PM SOLVENT	15000 PPM/4HRS RAT, INHALATION	NO/NO/1,2,3
N-BUTANOL	2500MG/KG RAT, ORAL	NO/YES/1,2,3/
	>800PPM/4HRS RAT, INHALATION	5000#/0140
ZINC CHLORIDE	NOT AVAILABLE	NO/NO
TITANATE	NOT AVAILABLE	NO/NO

TABLE (A) CAS NUMBER (B) LESS THAN WT (C) TLV-TWA (D) STEL (E) CEILING (F) TOXICITY DATA (LD50/Route,LC50/Route) (G) SARA 302/SARA 313/ SARA 311-312 CATEGORIES/CERCLA. NE = not established, NR = not required, NO = no. Color Pigment Mixture may contain Iron Oxides, Titanium Dioxide, Carbon Black, and other particulates not otherwise regulated in varying amounts depending on color of product.

WHMIS CLASSIFICATION: B2 -- D2B HMIS/NPPA CLASSIFICATION: HEALTH 3, PLAMMABILITY 3, REACTIVITY 1, PERSONAL PROTECTION CODE G, NPPA FIRE FIGHTING PHASE 4

## SECTION III - PHYSICAL DATA:

BOILING RANGE: 243F(117C)-248F(120C). VAPOR DENSITY: Heavier than air. EVAPORATION RATE: Slower than ether. VOLATILE BY WEIGHT 95 %. VOLATILE BY VOLUME: 99 %. PRODUCT WT/GAL: 7.8 LBS/U.S.GAL. 0.94 sp gr.

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA:

FLAMMABILITY CLASSIFICATION: FLASH POINT: 91 F(32C) (Setaflash) LEL 1.4 % UEL 13.8 %.

OSHA-PAINT/FLAMMABLE/LIQUID/UN1263/PGIII, DOT-PAINT,3,UN1263,PGIII, CANADIAN TDGA: PAINT,3,UN1263,PGIII

EXTINGUISHING MEDIA: Dry Chemical, Foam, Carbon Dioxide, Water Fog.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapors are heavier than air and will
accumulate. Vapors will form explosive concentrations with air. Vapors
travel long distances and will flashback. Use mechanical ventilation when
necessary to keep percent vapor below the "Lower Explosion Level" (LEL).
SPECIAL FIRE FIGHTING PROCEDURES: Evacuate hazard area of unprotected
personnel. Use a NIOSH approved self-contained breathing unit and complete

## PRODUCT: CARBOZINC HS ACTIVATOR Date: 07/17/95 Replaces 03/22/94

(0249C1NL)

body protection. Cool surrounding containers with water in case of fire exposure.

#### SECTION V - HEALTH HAZARD DATA:

INHALATION: Harmful if inhaled, may affect the brain or nervous system, causing dizziness, headache or nausea. May cause nose and throat irritation. May cause lung injury.

CONTACT: May be harmful if absorbed through the skin. May cause eye burns. May cause skin irritation.

NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: If you have a condition that could be aggravated by exposure to dust or organic vapors see a physician prior to use.

PRIMARY ROUTE(S) OF ENTRY: Inhalation, Dermal, Ingestion.

EMERGENCY FIRST AID PROCEDURES: When exposed always get medical attention. EYE CONTACT: Flush with water for 15 minutes.

SKIN CONTACT: Wash with soap and water. Remove contaminated clothing and clean before reuse.

INHALATION: Remove to fresh air. Provide oxygen if breathing is difficult. Use artificial respiration if not breathing. Get medical attention. IF SWALLOWED: DO NOT INDUCE VOMITING!! Always get medical attention.

## SECTION VI - REACTIVITY DATA:

STABILITY: This product is stable under normal storage conditions. HAZARDOUS POLYMERIZATION: Will not occur under normal conditions. HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, nitrogen oxides, and unidentified organic compounds. Consider all smoke and fumes from burning material as very hazardous. Welding, cutting or abrasive grinding can create smoke and fumes. Do not breathe. CONDITIONS TO AVOID: Heat, sparks, and open flames. INCOMPATIBILITY: Avoid contact with strong oxidizing agents.

## SECTION VII - SPILL OR LEAK PROCEDURES:

.......... STEPS TO BE TAKEN IN CASE OF SPILL: Bliminate all ignition sources. Handling equipment must be grounded to prevent sparking. Evacuate the area of unprotected personnel. Wear appropriate personal protection clothing and equipment. Follow safe handling and use guidelines in Section VIII. Contain and soak up residual with an absorbent (clay or sand). Take up absorbent material and seal tightly for proper disposal. Dispose of in accordance with local, state and federal regulations. Refer to Section II for Sara Title III and CERCLA information.

SECTION VIII - SAFE HANDLING AND USE INFORMATION:

RESPIRATORY PROTECTION: Use only with ventilation to keep levels below

## PRODUCT: CARBOZINC HS ACTIVATOR

(0249C1NL)

Date: 07/17/95 Replaces 03/22/94

exposure guidelines. (Section II). User should test and monitor exposure levels to insure all personnel are below guidelines. If not sure or if not able to monitor use MSHA/NIOSH approved air-purifying respirator.

VENTILATION: Use explosion-proof ventilation when required to keep below health exposure guidelines and Lower Explosion Limit (LEL).

SKIN AND EYE PROTECTION: Recommend impervious gloves, clothing and safety glasses with side shields or chemical goggles to avoid skin and eye contact. If material penetrates to skin, change gloves and clothing.

HYGIENIC PRACTICES: Wash with soap and water before eating, drinking, applying cosmetics, or using toilet facilities. Use of a hand cleaner is recommended. Launder contaminated clothing before reuse. Leather shoes can absorb and pass through hazardous materials. Check shoes carefully after soaking before reuse.

#### SECTION IX - SPECIAL PRECAUTIONS:

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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep away from heat, sparks, open flame, and strong oxidizing agents. Keep containers closed. Store in cool, dry place with adequate ventilation. If pouring or transferring materials, ground all containers and tools.

OTHER PRECAUTIONS: Do not weld, heat, cut or drill on full or empty containers.

The information contained herein is, to the best of our knowledge and belief accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations.

Carboline Company 350 Hanley Ind. Ct. St. Louis, MO 63144 PHONE NO. 314-644-1000 FOR INDUSTRIAL USE ONLY

# CARBOLINE CO. MATERIAL SAFETY DATA SHEET PRODUCT: CARBOZING HS ACTIVATOR

(0249C1NL)

Date: 07/17/95 Replaces 03/22/94
SPECIFIC STATE REGULATORY INFORMATION

NEW JERSEY
PENNSYLVANIA
Non-Hazardous Materials above 1 Percent:
Name CAS Pct

## CALIFORNIA

WARNING: This product contains a chemical(s) known to the State of California to cause cancer, and birth defects or other reproductive harm.

SECTION I - PRODUCT: CARBOGUARD 890 PART A (0986AINL)
Date: 11/08/99 Replaces 07/06/99

( aka CARBOLINE 890 PART A

CHEMTREC TRANSPORTATION EMERGENCY PHONE NO.: 800-424-9300

PITTSBURGH POISON CONTROL CENTER HEALTH EMERGENCY NO.: 412-681-6669

#### SECTION II - HAZARDOUS INGREDIENTS EXPOSURE LIMITS

CHEMICAL NAME	(A)	(B)	(C)	(D)	(B)
COLOR PIGMENT	MIXTURE	30%	3.5MG/M3	NE	NE
EPOXY RESIN	25068-38-6	15%	NE	NE	NE
SILICA	14808-60-7	10%	0.1MG/M3	NE	NE
XYLENE	1330-20-7	10%	100 PPM	150 PPM	NE
ETHYL BENZENE	100-41-4	5%	100 PPM	125 PPM	NE
AROMATIC SOLVENT	64742-95-6	5%	25PPM	NE	NE

H	AZARDOUS INGREDIENTS ADDITIO	NAL DATA
CHEMICAL NAME	(F)	(G)
COLOR PIGMENT	NOT AVAILABLE	NO/YES
EPOXY RESIN	11.4G/KG RAT, ORAL	NO/NO/1,2
	>20ML/KG SKIN, SENSITIZER	P. 166 43
SILICA	NOT AVAILABLE	NO/NO/NR/NO
XYLENE	4300MG/KG RAT, ORAL	NO/YES/1,2,3/
	15000 PPM/4HRS RAT, INHAL	ATION 1000#/U239
ETHYL BENZENE	NOT AVAILABLE	NO/YES/1,2,3/
		1000#
AROMATIC SOLVE	NT 4700MG/KG RAT, ORAL	NO/YES/1/2/3
	3670PPM/8HRS RAT, INHALAT	ION

TABLE (A) CAS NUMBER (B) LESS THAN WT (C) TLV-TWA (D) STEL (E) CEILING (F) TOXICITY DATA (LD50/Route, LC50/Route) (G) SARA 302/SARA 313/ SARA 311-312 CATEGORIES/CERCLA. NE = not established, NR = not required, NO = no. Color Pigment Mixture may contain Iron Oxides, Titanium Dioxide, Carbon Black, and other particulates not otherwise regulated in varying amounts depending on color of product.

WHMIS CLASSIFICATION: B2 -- D2A -- D2B HMIS/NFPA CLASSIFICATION: HEALTH 2, FLAMMABILITY 3, REACTIVITY 0, PERSONAL PROTECTION CODE G, NFPA FIRE FIGHTING PHASE 4

## SECTION III - PHYSICAL DATA:

BOILING RANGE: 277F(136C)-355F(179C). VAPOR DENSITY: Heavier than air. EVAPORATION RATE: Slower than ether. VOLATILE BY WEIGHT 10 %. VOLATILE BY VOLUME: 17 %. PRODUCT WT/GAL: 11.7 LBS/U.S.GAL. 1.41 sp gr.

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA:

FLAMMABILITY CLASSIFICATION: FLASH POINT: 89 F(31C) (Setaflash) LEL 1.0 % UEL 7.0 %.

OSHA-FLAMMABLE LIQUID/OSHA/CLASS/1C, DOT-PAINT,3,UN1263,PGIII, CANADIAN TDGA: PAINT,3,UN1263,PGIII

PRODUCT: CARBOGUARD 890 PART A
Date: 11/08/99 Replaces 07/06/99

(0986A1NL)

EXTINGUISHING MEDIA: Dry Chemical, Foam, Carbon Dioxide, Water Fog. UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapors are heavier than air and will accumulate. Vapors will form explosive concentrations with air. Vapors travel long distances and will flashback. Use mechanical ventilation when necessary to keep percent vapor below the "Lower Explosion Level" (LEL). SPECIAL FIRE FIGHTING PROCEDURES: Evacuate hazard area of unprotected personnel. Use a NIOSH approved self-contained breathing unit and complete body protection. Cool surrounding containers with water in case of fire exposure.

#### SECTION V - HEALTH HAZARD DATA:

INHALATION: Harmful if inhaled, may affect the brain or nervous system, causing dizziness, headache or nausea. May cause nose and throat irritation. CONTACT: May cause eye irritation. May cause skin irritation. May cause allergic skin reaction.

NOTICE: Contains SILICA which can cause cancer. Risk of cancer depends on duration and level of exposure. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: If sensitized to amines, epoxies or other chemicals do not use. See a physician if a medical condition exists.

PRIMARY ROUTE(S) OF ENTRY: Inhalation, Dermal, Ingestion.

EMERGENCY FIRST AID PROCEDURES: When exposed always get medical attention. BYE CONTACT: Flush with water for 15 minutes.

SKIN CONTACT: Wash with soap and water. Remove contaminated clothing and clean before reuse.

INHALATION: Remove to fresh air. Provide oxygen if breathing is difficult. Use artificial respiration if not breathing. Get medical attention. IF SWALLOWED: DO NOT INDUCE VOMITING!! Always get medical attention.

## SECTION VI - REACTIVITY DATA:

STABILITY: This product is stable under normal storage conditions.
HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, nitrogen oxides, and unidentified organic compounds. Consider all smoke and fumes from burning material as very hazardous. Welding, cutting or abrasive grinding can create smoke and fumes. Do not breathe.
CONDITIONS TO AVOID: Heat, sparks, and open flames.

INCOMPATIBILITY: Avoid contact with strong oxidizing agents.

### SECTION VII - SPILL OR LEAK PROCEDURES:

STEPS TO BE TAKEN IN CASE OF SPILL: Eliminate all ignition sources. Handling equipment must be grounded to prevent sparking. Evacuate the area of unprotected personnel. Wear appropriate personal protection clothing and equipment. Follow safe handling and use guidelines in Section VIII. Contain

PRODUCT: CARBOGUARD 890 PART A (0986AINL)
Date: 11/08/99 Replaces 07/06/99

and soak up residual with an absorbent (clay or sand). Take up absorbent material and seal tightly for proper disposal. Dispose of in accordance with local, state and federal regulations. Refer to Section II for Sara Title III and CERCLA information.

SECTION VIII - SAFE HANDLING AND USE INFORMATION:

RESPIRATORY PROTECTION: Use only with ventilation to keep levels below exposure guidelines. (Section II). User should test and monitor exposure levels to insure all personnel are below guidelines. If not sure or if not able to monitor use MSHA/NIOSH approved supplied air respirator. VENTILATION: Use explosion-proof ventilation when required to keep below health exposure guidelines and Lower Explosion Limit (LEL). SKIN AND EYE PROTECTION: Recommend impervious gloves, clothing and safety glasses with side shields or chemical goggles to avoid skin and eye contact. If material penetrates to skin, change gloves and clothing. HYGIENIC PRACTICES: Wash with soap and water before eating, drinking, applying cosmetics, or using toilet facilities. Use of a hand cleaner is recommended. Launder contaminated clothing before reuse. Leather shoes can absorb and pass through hazardous materials. Check shoes carefully after soaking before reuse.

SECTION IX - SPECIAL PRECAUTIONS:

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep away from heat, sparks, open flame, and strong oxidizing agents. Keep containers closed. Store in cool, dry place with adequate ventilation. If pouring or transferring materials, ground all containers and tools.

OTHER PRECAUTIONS: Do not weld, heat, cut or drill on full or empty containers.

The information contained herein is, to the best of our knowledge and belief accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations.

Carboline Company 350 Hanley Ind. Ct. St. Louis, MO 63144 PHONE NO. 314-644-1000 FOR INDUSTRIAL USE ONLY

## CARBOLINE CO. MATERIAL SAFETY DATA SHEET

PRODUCT: CARBOGUARD 890 PART A

Date: 11/08/99 Replaces 07/06/99 SPECIFIC STATE REGULATORY INFORMATION

(0986A1NL)

NEW JERSEY PENNSYLVANIA

Non-Hazardous Materials above 1 Percent:

Name CAS Pct EPOXY RESIN 25036-25-3 20% ALKYL PHTHALATE 68515-42-4 15% EPOXY RESIN 25036-25-3 15%

## CALIFORNIA

WARNING: This product contains a chemical(s) known to the State of California to cause cancer, and birth defects or other reproductive harm.

NO/NO/1,2 NO/NO/1,2

NO/NO/3

NO/YES/1/2/3

SECTION I - PRODUCT: CARBOGUARD 890 PART B (0986B1NL) Date: 11/08/99 Replaces 01/05/99 ( aka CARBOLINE 890 PART B CHEMTREC TRANSPORTATION EMERGENCY PHONE NO.: 800-424-9300 PITTSBURGH POISON CONTROL CENTER HEALTH EMERGENCY NO.: 412-681-6669 SECTION II - HAZARDOUS INGREDIENTS EXPOSURE LIMITS CHEMICAL NAME (A) (B) (C) (D) (E) 65% 0.1MG/M3 NE NE 10% 100 PPM 150 PPM NE 5% 100 PPM 125 PPM NE SILICA 14808-60-7 NE XYLENE 1330-20-7 ETHYL BENZENE 100-41-4 ISOPHORONE DIAMINE 2855-13-2 DIAMINOCYCLOHEXANE 694-83-7 5% NE 5% NB NE NE NE NR NE CYCLOALIPHATIC AMINE TRADE SECRET 5% NE NE 5% NE NE NE CYCLOALIPHATIC AMINE BLEND 5% 25PPM AROMATIC SOLVENT 64742-95-6 NE NE 5% 400 PPM 500 PPM NE ISOPROPANOL 67-63-0 HAZARDOUS INGREDIENTS ADDITIONAL DATA (G) CHEMICAL NAME (F) NO/NO/NR/NO SILICA NOT AVAILABLE 4300MG/KG RAT, ORAL NO/YES/1,2,3/ XYLENE 15000 PPM/4HRS RAT, INHALATION 1000#/U239 NO/YES/1,2,3/ NOT AVAILABLE ETHYL BENZENE 1000# ISOPHORONE DIAMINE >0.5 G/KG ORAL NO\NO >2 G/KG DERMAL NO/NO DIAMINOCYCLOHEXANE 750 MG/KG ORAL 160 MG/KG DERMAL

TABLE (A) CAS NUMBER (B) LESS THAN WT (C) TLV-TWA (D) STEL (E) CEILING (F) TOXICITY DATA (LD50/Route, LC50/Route) (G) SARA 302/SARA 313/ SARA 311-312 CATEGORIES/CERCLA. NE = not established, NR = not required, NO = no. Color Pigment Mixture may contain Iron Oxides, Titanium Dioxide, Carbon Black, and other particulates not otherwise regulated in varying amounts depending on color of product.

WHMIS CLASSIFICATION: B2 -- D2A -- D2B -- E HMIS/NFPA CLASSIFICATION: HEALTH 3, FLAMMABILITY 3, REACTIVITY 0, PERSONAL PROTECTION CODE G, NFPA FIRE FIGHTING PHASE 4

CYCLOALIPHATIC AMINE 1230 MG/KG ORAL RAT; 2000 MG/KG DERMAL

4700MG/KG RAT, ORAL

4720MG/KG RAT, ORAL

3670PPM/8HRS RAT, INHALATION

16000PPM/8HRS RAT, INHALATION

## SECTION III - PHYSICAL DATA:

CYCLOALIPHATIC AMINE NOT AVAILABLE

AROMATIC SOLVENT

ISOPROPANOL

BOILING RANGE: 180F(82C)-355F(179C). VAPOR DENSITY: Heavier than air. EVAPORATION RATE: Slower than ether. VOLATILE BY WEIGHT 17 %. VOLATILE BY

PRODUCT: CARBOGUARD 890 PART B (0986B1NL) Date: 11/08/99 Replaces 01/05/99

VOLUME: 33 %. PRODUCT WT/GAL: 13.4 LBS/U.S.GAL. 1.61 sp gr.

#### SECTION IV - FIRE AND EXPLOSION HAZARD DATA:

FLAMMABILITY CLASSIFICATION: FLASH POINT: 71 F(21C) (Setaflash) LEL 1.0 % UEL 12.7 %.

OSHA-FLAMMABLE LIQUID/OSHA/CLASS/1B, DOT-PAINT, 3, UN1263, PGII, CANADIAN TDGA: PAINT.3.UN1263.PGII

EXTINGUISHING MEDIA: Dry Chemical, Foam, Carbon Dioxide, Water Fog. UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapors are heavier than air and will accumulate. Vapors will form explosive concentrations with air. Vapors travel long distances and will flashback. Use mechanical ventilation when necessary to keep percent vapor below the "Lower Explosion Level" (LEL). SPECIAL FIRE FIGHTING PROCEDURES: Evacuate hazard area of unprotected personnel. Use a NIOSH approved self-contained breathing unit and complete body protection. Cool surrounding containers with water in case of fire exposure.

#### SECTION V - HEALTH HAZARD DATA:

INHALATION: May cause allergic respiratory reaction, effects may be permanent. Harmful if inhaled, may affect the brain or nervous system, causing dizziness, headache or nausea. May cause nose and throat irritation. May cause lung irritation.

CONTACT: May be harmful if absorbed through the skin. Can cause eye burns. Can cause skin burns. Can cause allergic skin reaction.

NOTICE: Contains SILICA which can cause cancer. Risk of cancer depends on duration and level of exposure. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: If you have a condition that could be aggravated by exposure to dust or organic vapors see a physician prior to use.

PRIMARY ROUTE(S) OF ENTRY: Inhalation, Dermal, Ingestion.

EMERGENCY FIRST AID PROCEDURES: When exposed always get medical attention. EYE CONTACT: Flush with water for 15 minutes.

SKIN CONTACT: Wash with soap and water. Remove contaminated clothing and

clean before reuse.

INHALATION: Remove to fresh air. Provide oxygen if breathing is difficult. Use artificial respiration if not breathing. Get medical attention. IF SWALLOWED: DO NOT INDUCE VOMITING!! Always get medical attention.

### SECTION VI - REACTIVITY DATA:

....... STABILITY: This product is stable under normal storage conditions. HAZARDOUS POLYMERIZATION: Will not occur under normal conditions. HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, nitrogen oxides, and unidentified organic compounds. Consider all smoke and fumes from burning material as very hazardous. Welding, cutting or abrasive grinding can create

PRODUCT: CARBOGUARD 890 PART B (0986BlNL)
Date: 11/08/99 Replaces 01/05/99

smoke and fumes. Do not breathe.

CONDITIONS TO AVOID: Heat, sparks, and open flames.

INCOMPATIBILITY: Avoid contact with strong oxidizing agents.

#### SECTION VII - SPILL OR LEAK PROCEDURES:

STEPS TO BE TAKEN IN CASE OF SPILL: Bliminate all ignition sources. Handling equipment must be grounded to prevent sparking. Evacuate the area of unprotected personnel. Wear appropriate personal protection clothing and equipment. Follow safe handling and use guidelines in Section VIII. Contain and soak up residual with an absorbent (clay or sand). Take up absorbent material and seal tightly for proper disposal. Dispose of in accordance with local, state and federal regulations. Refer to Section II for Sara Title III and CERCLA information.

#### SECTION VIII - SAFE HANDLING AND USE INFORMATION:

RESPIRATORY PROTECTION: Use only with ventilation to keep levels below exposure guidelines. (Section II). User should test and monitor exposure levels to insure all personnel are below guidelines. If not sure or if not able to monitor use MSHA/NIOSH approved supplied air respirator. VENTILATION: Use explosion-proof ventilation when required to keep below health exposure guidelines and Lower Explosion Limit (LEL). SKIN AND EYE PROTECTION: Recommend impervious gloves, clothing and safety glasses with side shields or chemical goggles to avoid skin and eye contact. If material penetrates to skin, change gloves and clothing. HYGIENIC PRACTICES: Wash with soap and water before eating, drinking, applying cosmetics, or using toilet facilities. Use of a hand cleaner is recommended. Launder contaminated clothing before reuse. Leather shoes can absorb and pass through hazardous materials. Check shoes carefully after soaking before reuse.

## SECTION IX - SPECIAL PRECAUTIONS:

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep away from heat, sparks, open flame, and strong oxidizing agents. Keep containers closed. Store in cool, dry place with adequate ventilation. If pouring or transferring materials, ground all containers and tools. OTHER PRECAUTIONS: Do not weld, heat, cut or drill on full or empty containers.

The information contained herein is, to the best of our knowledge and belief accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations.

PRODUCT: CARBOGUARD 890 PART B
Date: 11/08/99 Replaces 01/05/99

(0986B1NL)

Carboline Company 350 Hanley Ind. Ct. St. Louis, MO 63144 PHONE NO. 314-644-1000 FOR INDUSTRIAL USE ONLY

## CARBOLINE CO. MATERIAL SAFETY DATA SHEET PRODUCT: CARBOGUARD 890 PART B

Date: 11/08/99 Replaces 01/05/99 SPECIFIC STATE REGULATORY INFORMATION

(0986B1NL)

NEW JERSEY PENNSYLVANIA

Non-Hazardous Materials above 1 Percent:

Name CAS Pct

BENZYL ALCOHOL 100-51-6 10% POLYMER SOLUTION MIXTURE 5%

## CALIFORNIA

WARNING: This product contains a chemical(s) known to the State of California to cause cancer, and birth defects or other reproductive harm. SECTION I - PRODUCT: CARBOGUARD 890 LT PART B (0983B1NL)

Date: 11/17/99 Replaces 01/11/99

( aka CARBOLINE 890 LT PART B )

CHEMTREC TRANSPORTATION EMERGENCY PHONE NO.: 800-424-9300

PITTSBURGH POISON CONTROL CENTER HEALTH EMERGENCY NO.: 412-681-6669

SECTION	II	*	HAZARDOUS	INGREDIENTS	EXPOSURE	LIMITS

CHEMICAL NAME	(A)	(B)	(C)	(D)	(E)	
SILICA	14808-60-7	60%	0.1MG/M3	NE	NE	
XYLENE	1330-20-7	10%	100 PPM	150 PPM	NE	
ETHYL BENZENE	100-41-4	5%	100 PPM	125 PPM	NE	
TDMAM PHENOL	90-72-2	5%	NE	NE	NE	
NONYL PHENOL	25154-52-3	5%	NE	NE	NE	
AROMATIC SOLVENT	64742-95-6	5%	25PPM	NE	NE	
ISOPROPANOL	67-63-0	5%	400 PPM	500 PPM	NE	

#### HAZARDOUS INGREDIENTS ADDITIONAL DATA

nnann	DOUD INGREDIBILE REDITIONED DAIR	
CHEMICAL NAME	(F)	(G)
SILICA	NOT AVAILABLE	NO/NO/NR/NO
XYLENE	4300MG/KG RAT, ORAL	NO/YES/1,2,3/
	15000 PPM/4HRS RAT, INHALATION	1000#/0239
ETHYL BENZENE	NOT AVAILABLE	NO/YES/1,2,3/
		1000#
TDMAM PHENOL	2169 MG/KG ORAL	NO/NO
NONYL PHENOL	1620MG/KG ORAL 2140 MG/KG SKIN	NO/NO
AROMATIC SOLVENT	4700MG/KG RAT, ORAL	NO/YES/1/2/3
	3670PPM/8HRS RAT, INHALATION	
ISOPROPANOL	4720MG/KG RAT, ORAL	NO/NO/3
	16000PPM/8HRS RAT, INHALATION	

TABLE (A) CAS NUMBER (B) LESS THAN WT (C) TLV-TWA (D) STEL (E) CEILING (F) TOXICITY DATA (LD50/Route, LC50/Route) (G) SARA 302/SARA 313/ SARA 311-312 CATEGORIES/CERCLA. NE = not established, NR = not required, NO = no. Color Pigment Mixture may contain Iron Oxides, Titanium Dioxide, Carbon Black, and other particulates not otherwise regulated in varying amounts depending on color of product.

WHMIS CLASSIFICATION: B2 -- D2A -- D2B HMIS/NFPA CLASSIFICATION: HBALTH 3, PLAMMABILITY 3, REACTIVITY 0, PERSONAL PROTECTION CODE G, NFPA FIRE FIGHTING PHASE 4

## SECTION III - PHYSICAL DATA:

BOILING RANGE: 180F(82C)-355F(179C). VAPOR DENSITY: Heavier than air.
EVAPORATION RATE: Slower than ether. VOLATILE BY WEIGHT 14 %. VOLATILE BY
VOLUME: 25 %. PRODUCT WT/GAL: 12.7 LBS/U.S.GAL. 1.53 sp gr.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA:

FLAMMABILITY CLASSIFICATION: FLASH POINT: 71 F(21C) (Setaflash) LBL 1.0 % UEL 12.7 %.

PRODUCT: CARBOGUARD 890 LT PART B (0983B1NL)
Date: 11/17/99 Replaces 01/11/99

OSHA-FLAMMABLE LIQUID/OSHA/CLASS/1B, DOT-PAINT,3,UN1263,PGII, CANADIAN TDGA:
PAINT,3,UN1263,PGII
EXTINGUISHING MEDIA: Dry Chemical, Foam, Carbon Dioxide, Water Fog.
FIRE AND EXPLOSION HAZARDS: Product contains less than 1% volatile
components. The amount of vapors that could accumulate are minimal. However
vapors are heavier than air and could travel long distances ignite and
flashback. Eliminate all ignition sources. Keep away from sparks, open
flames, and heat sources. All electrical equipment and installations should
be made and grounded in accordance with the National Electrical Code. In
areas where explosion hazards exist, workers should be required to use
nonferrous tools and to wear conductive and non-sparking shoes.
SPECIAL FIRE FIGHTING PROCEDURES: Evacuate hazard area of unprotected
personnel. Use a NIOSH approved self-contained breathing unit and complete
body protection. Cool surrounding containers with water in case of fire
exposure.

#### SECTION V - HEALTH HAZARD DATA:

INHALATION: May cause allergic respiratory reaction, effects may be permanent. Harmful if inhaled, may affect the brain or nervous system, causing dizziness, headache or nausea. May cause nose and throat irritation. May cause lung irritation.

CONTACT: May be harmful if absorbed through the skin. May cause eye burns. May cause skin burns.

NOTICE: Contains SILICA which can cause cancer. Risk of cancer depends on duration and level of exposure. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: If you have a condition that could be aggravated by exposure to dust or organic vapors see a physician prior to use.

PRIMARY ROUTE(S) OF ENTRY: Inhalation, Dermal, Ingestion.

EMERGENCY FIRST AID PROCEDURES: When exposed always get medical attention.

EYE CONTACT: Flush with water for 15 minutes.

SKIN CONTACT: Wash with soap and water. Remove contaminated clothing and clean before reuse.

INHALATION: Remove to fresh air. Provide oxygen if breathing is difficult. Use artificial respiration if not breathing. Get medical attention. IF SWALLOWED: DO NOT INDUCE VOMITING!! Always get medical attention.

## SECTION VI - REACTIVITY DATA:

STABILITY: This product is stable under normal storage conditions.
HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, nitrogen oxides, and unidentified organic compounds. Consider all smoke and fumes from burning material as very hazardous. Welding, cutting or abrasive grinding can create smoke and fumes. Do not breathe any fumes or smoke from these operations.
CONDITIONS TO AVOID: Heat, sparks, and open flames.

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PRODUCT: CARBOGUARD 890 LT PART B (0983B1NL)
Date: 11/17/99 Replaces 01/11/99

INCOMPATIBILITY: Avoid contact with strong oxidizing agents.

### SECTION VII - SPILL OR LEAK PROCEDURES:

STEPS TO BE TAKEN IN CASE OF SPILL: Bliminate all ignition sources. Handling equipment must be grounded to prevent sparking. Evacuate the area of unprotected personnel. Wear appropriate personal protection clothing and equipment. Follow safe handling and use guidelines in Section VIII. Contain and soak up residual with an absorbent (clay or sand). Take up absorbent material and seal tightly for proper disposal. Dispose of in accordance with local, state and federal regulations. Refer to Section II for Sara Title III and CERCLA information.

#### SECTION VIII - SAFE HANDLING AND USE INFORMATION:

RESPIRATORY PROTECTION: Use only with ventilation to keep levels below exposure guidelines. (Section II). User should test and monitor exposure levels to insure all personnel are below guidelines. If not sure or if not able to monitor use MSHA/NIOSH approved supplied air respirator. Follow all current OSHA requirements for respirator use.

VENTILATION: Use explosion-proof ventilation when required to keep below health exposure guidelines and Lower Explosion Limit (LEL).

SKIN AND BYE PROTECTION: Recommend impervious gloves, clothing and safety glasses with side shields or chemical goggles to avoid skin and eye contact. If material penetrates to skin, change gloves and clothing. Hypersensitive persons should wear gloves or use protective cream.

HYGIENIC PRACTICES: Wash with soap and water before eating, drinking, applying cosmetics, or using toilet facilities. Use of a hand cleaner is recommended. Launder contaminated clothing before reuse. Leather shoes can absorb and pass through hazardous materials. Check shoes carefully after soaking before reuse.

APPLICATION: Use only in accordance with Carboline application instructions, container label and Product Data Sheet.

### SECTION IX - SPECIAL PRECAUTIONS:

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep away from heat, sparks, open flame, and strong oxidizing agents. Keep containers closed. Store in cool, dry place with adequate ventilation. If pouring or transferring materials, ground all containers and tools.

OTHER PRECAUTIONS: Do not weld, heat, cut or drill on full or empty containers.

The information contained herein is, to the best of our knowledge and belief accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations.

PRODUCT: CARBOGUARD 890 LT PART B
Date: 11/17/99 Replaces 01/11/99

(0983B1NL)

Carboline Company 350 Hanley Ind. Ct. St. Louis, MO 63144 PHONE NO. 314-644-1000 FOR INDUSTRIAL USE ONLY

## CARBOLINE CO. MATERIAL SAFETY DATA SHEET

PRODUCT: CARBOGUARD 890 LT PART B
Date: 11/17/99 Replaces 01/11/99
SPECIFIC STATE REGULATORY INFORMATION

(0983B1NL)

NEW JERSEY

PENNSYLVANIA

Non-Hazardous Materials above 1 Percent:

Name	CAS	Pct
POLYAMIDE	MIXTURE	15%
BENZYL ALCOHOL	100-51-6	5%
BENZYL ALCOHOL	100-51-6	5%
POLYMER SOLUTION	MIXTURE	5%

## CALIFORNIA

WARNING: This product contains a chemical(s) known to the State of California to cause cancer, and birth defects or other reproductive harm. SECTION I - PRODUCT: CARBOTHANE 134HG PART A (0859AlNL)
Date: 08/24/00 Replaces 03/31/00

CHEMTREC TRANSPORTATION EMERGENCY PHONE NO.: 800-424-9300 PITTSBURGH POISON CONTROL CENTER HEALTH EMERGENCY NO.: 412-681-6669

SECTION II - HAZARI						
CHEMICAL NAME	(A)				(3	
	14808-60-7	25%	0.1MG/M3	NE	NE	
	MIXTURE	15%	3.5MG/M3	NE	NE	
TOLUENE	108-88-3	10%	50 PPM	150 PPM	NE	
BUTYL ACETATE	123-86-4	10%	150 PPM	200 PPM	NE	
ETHYL BENZENE	100-41-4	5%	100 PPM	125 PPM	NE	
DISPERSING AGENT	MIXTURE	5%	NE	NE	NE	
	1330-20-7			150 PPM	NE	
ALIPHATIC DIOL	TS	5%	25 PPM	25 PPM	25	PPM
HAZAR	DOUS INGREDIENT	rs A	DDITIONAL	DATA		
CHEMICAL NAME	(F)				(G)	
SILICA	NOT AVAILAB	LB			NO/	NO/NR/NO
COLOR PIGMENT	NOT AVAILAB	LB			NO/	YES
TOLUENE	5.0 G/KG RA	T ORAL,	14G/KG RA	BBIT DERMAL	NO/	YES/1,2,3/
	8000 PPM/4HRS, RAT, INHALATION			100	0#/U220	
BUTYL ACETATE	7.4 G/KG RA	BBIT OR	AL		NO/	NO/1,2,3
	>1800 PPM/6	H INHAL	ATION			
ETHYL BENZENE	NOT AVAILAB	LE			NO/	YES/1,2,3/
					100	00#
DISPERSING AGENT	NE				NO/	NO
	NE					
XYLENE	4300MG/KG R	AT, ORAL			NO/	YES/1,2,3/
Market W.	15000 PPM/4	1 To		N	100	00#/0239
ALIPHATIC DIOL	NB				NO	NO/1/4/

TABLE (A) CAS NUMBER (B) LESS THAN WT (C) TLV-TWA (D) STEL (E) CEILING (F) TOXICITY DATA (LD50/Route, LC50/Route) (G) SARA 302/SARA 313/ SARA 311-312 CATEGORIES/CERCLA. NE = not established, NR = not required, NO = no. Color Pigment Mixture may contain Iron Oxides, Titanium Dioxide, Carbon Black, and other particulates not otherwise regulated in varying amounts depending on color of product.

WHMIS CLASSIFICATION: B2 -- D2A -- D2B HMIS/NFPA CLASSIFICATION: HEALTH 3, FLAMMABILITY 3, REACTIVITY 1, PERSONAL PROTECTION CODE G, NFPA FIRE FIGHTING PHASE 4

## SECTION III - PHYSICAL DATA:

BOILING RANGE: 232F(111C)-284F(140C). VAPOR DENSITY: Heavier than air. EVAPORATION RATE: Slower than ether. VOLATILE BY WEIGHT 23 %. VOLATILE BY VOLUME: 34 %. PRODUCT WT/GAL: 10.6 LBS/U.S.GAL. 1.28 sp gr.

PRODUCT: CARBOTHANE 134HG PART A (0859AlNL)
Date: 08/24/00 Replaces 03/31/00

SECTION IV - FIRE AND EXPLOSION HAZARD DATA:

FLAMMABILITY CLASSIFICATION: FLASH POINT: 50 F(10C) (Setaflash) LEL 1.0 % UEL 7.6 %.

OSHA-FLAMMABLE LIQUID/OSHA/CLASS/1B, DOT-PAINT,3,UN1263,PGII, CANADIAN TDGA: PAINT,3,UN1263,PGII

EXTINGUISHING MEDIA: Dry Chemical, Foam, Carbon Dioxide, Water Fog. FIRE AND EXPLOSION HAZARDS: Vapors are heavier than air and will accumulate. Vapors will form explosive concentrations with air. Vapors travel long distances and will flashback. Use mechanical ventilation when necessary to keep percent vapor below the "Lower Explosion Level" (LEL). Eliminate all ignition sources. Keep away from sparks, open flames and heat sources. All electric equipment and installations should be made and grounded in accordance with the National Electrical Code. In areas where explosion hazards exist, workers should be required to use nonferrous tools and to wear conductive and non-sparking shoes.

SPECIAL FIRE FIGHTING PROCEDURES: Evacuate hazard area of unprotected personnel. Use a NIOSH approved self-contained breathing unit and complete body protection. Cool surrounding containers with water in case of fire exposure.

#### SECTION V - HEALTH HAZARD DATA:

INHALATION: Harmful if inhaled, may affect the brain or nervous system, causing dizziness, headache or nausea. May cause nose and throat irritation. CONTACT: Can cause eye irritation. May cause skin irritation. May cause allergic skin reaction.

NOTICE: Contains SILICA which can cause cancer. Risk of cancer depends on duration and level of exposure. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.

MEDICAL CONDITIONS PROME TO AGGRAVATION BY EXPOSURE: If you have a condition that could be aggravated by exposure to dust or organic vapors see a physician prior to use.

PRIMARY ROUTE(S) OF ENTRY: Inhalation, Dermal, Ingestion.

EMERGENCY FIRST AID PROCEDURES: When exposed always get medical attention. EYE CONTACT: Flush with water for 15 minutes.

SKIN CONTACT: Wash with soap and water. Remove contaminated clothing and clean before reuse.

INHALATION: Remove to fresh air. Provide oxygen if breathing is difficult. Use artificial respiration if not breathing. Get medical attention. IF SWALLOWED: DO NOT INDUCE VOMITING!! Always get medical attention.

## SECTION VI - REACTIVITY DATA:

STABILITY: This product is stable under normal storage conditions.
HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, nitrogen oxides, and

# PRODUCT: CARBOTHANE 134HG PART A (0859A1NL Date: 08/24/00 Replaces 03/31/00

unidentified organic compounds. Consider all smoke and fumes from burning material as very hazardous. Welding, cutting or abrasive grinding can create smoke and fumes. Do not breathe any fumes or smoke from these operations. CONDITIONS TO AVOID: Heat, sparks, and open flames. INCOMPATIBILITY: Avoid contact with strong oxidizing agents.

## SECTION VII - SPILL OR LEAK PROCEDURES:

STEPS TO BE TAKEN IN CASE OF SPILL: Eliminate all ignition sources. Handling equipment must be grounded to prevent sparking. Evacuate the area of unprotected personnel. Wear appropriate personal protection clothing and equipment. Follow safe handling and use guidelines in Section VIII. Contain and soak up residual with an absorbent (clay or sand). Take up absorbent material and seal tightly for proper disposal. Dispose of in accordance with local, state and federal regulations. Refer to Section II for Sara Title III and CERCLA information.

### SECTION VIII - SAFE HANDLING AND USE INFORMATION:

RESPIRATORY PROTECTION: Use only with ventilation to keep levels below exposure guidelines. (Section II). User should test and monitor exposure levels to ensure all personnel are below guidelines. If not sure, or not able to monitor, use MSHA/NIOSH approved supplied air respirator. Follow all current OSHA requirements for respirator use. VENTILATION: Use explosion-proof ventilation when required to keep below health exposure guidelines and Lower Explosion Limit (LEL). SKIN AND EYE PROTECTION: Recommend impervious gloves, clothing and safety glasses with side shields or chemical goggles to avoid skin and eye contact. If material penetrates to skin, change gloves and clothing. Hypersensitive persons should wear gloves or use protective cream. HYGIENIC PRACTICES: Wash with soap and water before eating, drinking, applying cosmetics, or using toilet facilities. Use of a hand cleaner is recommended. Launder contaminated clothing before reuse. Leather shoes can absorb and pass through hazardous materials. Check shoes carefully after soaking before reuse. APPLICATION: Use only in accordance with Carboline application instructions,

## SECTION IX - SPECIAL PRECAUTIONS:

container label and Product Data Sheet.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep away from heat, sparks, open flame, and strong oxidizing agents. Keep containers closed. Store in cool, dry place with adequate ventilation. If pouring or transferring materials, ground all containers and tools.

OTHER PRECAUTIONS: Do not weld, heat, cut or drill on full or empty containers.

PRODUCT: CARBOTHANE 134HG PART A
Date: 08/24/00 Replaces 03/31/00

(0859A1NL)

The information contained herein is, to the best of our knowledge and belief accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations.

Carboline Company 350 Hanley Ind. Ct. St. Louis, MO 63144 PHONE NO. 314-644-1000 FOR INDUSTRIAL USE ONLY

## CARBOLINE CO. MATERIAL SAFETY DATA SHEET PRODUCT: CARBOTHANE 134HG PART A

(0859A1NL)

Date: 08/24/00 Replaces 03/31/00 SPECIFIC STATE REGULATORY INFORMATION

NEW JERSEY PENNSYLVANIA Non-Hazardous Materials above 1 Percent: Name CAS Pct 35% EXTURE 10% ACRYLIC COPOLYMER ACRYLIC COPOLYMER MIXTURE

## CALIFORNIA

WARNING: This product contains a chemical(s) known to the State of California to cause cancer, and birth defects or other reproductive harm. SECTION I - PRODUCT: URETHANE CONVERTER 811 (0856BlNL)
Date: 04/10/00 Replaces 11/13/97

CHEMTREC TRANSPORTATION EMERGENCY PHONE NO.: 800-424-9300 PITTSBURGH POISON CONTROL CENTER HEALTH EMERGENCY NO.: 412-681-6669

SECTION II - HAZARI	OUS INGREDIENT	S EXPOSURE LI	MITS	
CHEMICAL NAME	(A)	(B) (C)	(D)	(E)
POLYMERIC HDI	MIXTURE	90% 0.005PPM		NE
AROMATIC SOLVENT	64742-95-6	5% 25PPM	NE	NE
BUTYL ACETATE	123-86-4	5% 150 PPM	200 PPM	NE
HDI ISOCYANATE	822-06-0	2% 0.005PPM	0.02PPM	NE
HAZARI	DOUS INGREDIENT	s ADDITIONAL	DATA	
CHEMICAL NAME	(F)			(G)
POLYMERIC HDI	>10000 MG/KG	RAT ORAL		NO/NO/1,2,3,5
	137-1150 MG/	M3 4 HOURS; RAT		
AROMATIC SOLVENT	4700MG/KG RA	T, ORAL		NO/YES/1/2/3
	3670PPM/8HRS	RAT, INHALATION		
BUTYL ACETATE	7.4 G/KG RAE	BBIT ORAL		NO/NO/1,2,3
	>1800 PPM/6E			
HDI ISOCYANATE	710MG/KG ORA	L 570MG/KG DERMA	L	NO/NO
	23PPM 4 HRS			

TABLE (A) CAS NUMBER (B) LESS THAN WT (C) TLV-TWA (D) STEL (E) CEILING (F) TOXICITY DATA (LD50/Route, LC50/Route) (G) SARA 302/SARA 313/ SARA 311-312 CATEGORIES/CERCLA. NE = not established, NR = not required, NO = no. Color Pigment Mixture may contain Iron Oxides, Titanium Dioxide, Carbon Black, and other particulates not otherwise regulated in varying amounts depending on color of product.

WHMIS CLASSIFICATION: B3 -- D2A -- D2B HMIS/NFPA CLASSIFICATION: HEALTH 3, FLAMMABILITY 2, REACTIVITY 1, PERSONAL PROTECTION CODE G, NFPA FIRE FIGHTING PHASE 4

### SECTION III - PHYSICAL DATA:

BOILING RANGE: 259F(126C)-355F(179C). VAPOR DENSITY: Heavier than air. EVAPORATION RATE: Slower than ether. VOLATILE BY WEIGHT 10 %. VOLATILE BY VOLUME: 13 %. PRODUCT WT/GAL: 9.3 LBS/U.S.GAL. 1.12 sp gr.

### SECTION IV - FIRE AND EXPLOSION HAZARD DATA:

FLAMMABILITY CLASSIFICATION: FLASH POINT: 106 F(41C) (Setaflash) LEL 1.0 % UEL 7.6 %.

OSHA-COMBUSTIBLE/LIQUID/OSHA/CLASS/II, DOT-PAINT, 3, UN1263, PGIII, CANADIAN TDGA: PAINT, 3, UN1263, PGIII EXTINGUISHING MEDIA: Dry Chemical, Foam, Carbon Dioxide, Water Fog.

FIRE AND EXPLOSION HAZARDS: Vapors are heavier than air and will accumulate. Vapors will form explosive concentrations with air. Vapors travel long distances and will flashback. Use mechanical ventilation when necessary to

## PRODUCT: URETHANE CONVERTER 811 Date: 04/10/00 Replaces 11/13/97

(0856B1NL)

keep percent vapor below the "Lower Explosion Level" (LEL). Eliminate all ignition sources. Keep away from sparks, open flames and heat sources. All electric equipment and installations should be made and grounded in accordance with the National Electrical Code. In areas where explosion hazards exist, workers should be required to use nonferrous tools and to wear conductive and non-sparking shoes.

SPECIAL FIRE FIGHTING PROCEDURES: Evacuate hazard area of unprotected personnel. Use a NIOSH approved self-contained breathing unit and complete body protection. Cool surrounding containers with water in case of fire exposure.

#### SECTION V - HEALTH HAZARD DATA:

INHALATION: Harmful if inhaled, may affect the brain or nervous system, causing dizziness, headache or nausea. May cause nose and throat irritation. May cause lung irritation. Contains HEXAMETHYLENE DIISOCYANATE which may cause allergic respiratory reaction, effects may be permanent.

CONTACT: May cause eye irritation. May cause skin irritation. May cause allergic skin reaction.

NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: If sensitized to isocyanates or other chemicals do not use. See a physician if a medical condition exists.

PRIMARY ROUTE(S) OF ENTRY: Inhalation, Dermal, Ingestion.

EMERGENCY FIRST AID PROCEDURES: When exposed always get medical attention. EYE CONTACT: Flush with water for 15 minutes.

SKIN CONTACT: Wash with soap and water. Remove contaminated clothing and clean before reuse.

INHALATION: Remove to fresh air. Provide oxygen if breathing is difficult. Use artificial respiration if not breathing. Get medical attention. IF SWALLOWED: DO NOT INDUCE VOMITING!! Always get medical attention.

### SECTION VI - REACTIVITY DATA:

STABILITY: This product is stable under normal storage conditions.
HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, nitrogen oxides, and unidentified organic compounds. Consider all smoke and fumes from burning material as very hazardous. Welding, cutting or abrasive grinding can create smoke and fumes. Do not breathe any fumes or smoke from these operations.
CONDITIONS TO AVOID: Heat, sparks, and open flames.
INCOMPATIBILITY: Avoid contact with strong oxidizing agents.

## SECTION VII - SPILL OR LEAK PROCEDURES:

STEPS TO BE TAKEN IN CASE OF SPILL: Eliminate all ignition sources.
Handling equipment must be grounded to prevent sparking. Evacuate the area of unprotected personnel. Wear appropriate personal protection clothing and

## PRODUCT: URETHANE CONVERTER 811 (0856BlNL) Date: 04/10/00 Replaces 11/13/97

equipment. Follow safe handling and use guidelines in Section VIII. Contain and soak up residual with an absorbent (clay or sand). Take up absorbent material and seal tightly for proper disposal. Dispose of in accordance with local, state and federal regulations. Refer to Section II for Sara Title III and CERCLA information.

SECTION VIII - SAFE HANDLING AND USE INFORMATION:

RESPIRATORY PROTECTION: Use only with ventilation to keep levels below exposure guidelines. (Section II). User should test and monitor exposure levels to insure all personnel are below guidelines. If not sure or if not able to monitor, use MSHA/NIOSH approved supplied air respirator. Follow all current OSHA requirements for respirator use. VENTILATION: Use explosion-proof ventilation when required to keep below health exposure guidelines and Lower Explosion Limit (LEL) SKIN AND BYE PROTECTION: Recommend impervious gloves, clothing and safety glasses with side shields or chemical goggles to avoid skin and eye contact. If material penetrates the skin, change gloves and clothing. Hypersensitive persons should wear gloves or use protective cream. HYGIENIC PRACTICES: Wash with soap and water before eating, drinking, applying cosmetics, or using toilet facilities. Use of a hand cleaner is recommended. Launder contaminated clothing before reuse. Leather shoes can absorb and pass through hazardous materials. Check shoes carefully after soaking before reuse. APPLICATION: Use only in accordance with Carboline application instructions, container label and Product Data Sheet.

### SECTION IX - SPECIAL PRECAUTIONS:

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep away from heat, sparks, open flame, and strong oxidizing agents. Keep containers closed. Store in cool, dry place with adequate ventilation. If pouring or transferring materials, ground all containers and tools. OTHER PRECAUTIONS: Do not weld, heat, cut or drill on full or empty containers.

The information contained herein is, to the best of our knowledge and belief accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations.

Carboline Company 350 Hanley Ind. Ct. St. Louis, MO 63144 PHONE NO. 314-644-1000 FOR INDUSTRIAL USE ONLY

# CARBOLINE CO. MATERIAL SAFETY DATA SHEET PRODUCT: URETHANE CONVERTER 811 Date: 04/10/00 Replaces 11/13/97 SPECIFIC STATE REGULATORY INFORMATION

(0856B1NL)

NEW JERSEY PENNSYLVANIA Non-Hazardous Materials above 1 Percent: Name CAS Pct No materials meet this criteria

## CALIFORNIA

WARNING: This product contains a chemical(s) known to the State of California to cause cancer, and birth defects or other reproductive harm.

## MSDS for Nelson Nameplate Ink

graphed MATERIAL SAFETY DATA SHEET

Unleaded

//-22-99 5J PAGE: 1 OF

DATE OF LAST CHANGE: 07/01/98

DATE PRINTED..... 11/04/99

MANUFACTURER	

VR CHICAGO 1007 N. NORTH BRANCH ST. CHICAGO IL 60622 4292 USA

EMERGENCY TELEPHONE #: (800)424-9300 (U.S. and Canada) EMERGENCY TELEPHONE #: (703)527-3887 (Outside U.S. and Canada, collect calls are accepted) INFORMATION TELEPHONE #: (800)736-736

IL 60622 4292 USA			INFORMATION TEL	EPHONE #:		re accept	eu)		
SECTION 1	CHEMICA	L PRODUCT	AND COMPANY IDEA	TICICATION		*******			****
***************************************									
TRADE NAME: GV SERIES GLOSS VINYL SO	MSDS# 261-069				CODE: GVNL - H H I S C O D E S -				
PRODUCT CLASS: SCREEN INK Walesday							HEALTH FLAMMAB	ILITY -	2*
INK SERIES GV							REACTIV PPE	: ۲۲	
GV170 CLEAR GLOSS 8 GV185 BRILLIANT PALE GOLD 10	al g/L .6 646	VOC 3 1b/gal 5.4 5.6 4.8 5.6 5.6 5.6 5.6 5.6	70 GV110 73 GV112 63 GV153 74 GV154 73 GV156 75 GV173 76 GV173 73 GV185	MAJESTIC LIGHT BLU PERMANENT CERISE CLEAR GLO SILVER	ription NT RED YELLOW E BLUE SS EXTERIOR	8.4 8.9 8.6 9.1 8.4 8.9	686 662 671 649 698 671	1b/ga1 5.5 5.3 5.7 5.5 5.6 5.4 5.8 5.6	
SECTION 2	COMPOSI	TION INFO	PHATION ON INCOM	DIENTS					
CHEMICAL NAME:		RCENT	OCCUPATIONAL EXPOSURE LIMITS		- VAPOR PRESSURE IN meHg				
ICOOHORONE: 1: 78-59-1		28-46		HED	************	< 1.0			
RESIN MIXTURES; CAS #: Not Available		21-28	NOT ESTABLIS	HED	NOT ESTABLISHED	< 1 8	20C		
ETHYL 3-ETHOXYPROPIONATE; ESTER SOLVENT EEP; CAS #: 763-69-9		5-22	NOT ESTABLIS	HED	NOT ESTABLISHED	1.11	0 25C	(	2)
PETROLEUM DISTILLATE: AROMATIC HYDROCARBON: CAS #: 64742-94-5	ě	7-14	NOT ESTABLIS	HED	NOT ESTABLISHED	<1 0	20C	(	3)
* NAPHTHALENE: PETROLEUM DISTILLATE: CAS #: 91-20-3		2	STEL: 15 pp		10 ppm STEL: 15 ppm	<1 0	20C	(	4)
PETROLEUM DISTILLATE: AROMATIC HYDROCARBON: CAS #: 64742-95-6		2	NOT ESTABLIS	HED	NOT ESTABLISHED	3.0 8	200		
TITANIUM DIOXIDE: CAS #: 13463-67-7		0-33	10 mg	/m3	10 mg/m3		N/A		
COPPER COMPOUNDS;  CAS #: 7440-50-8;		0-18	1 =0	/m3	1 mg/m3		N/A	(	5)
DIACETONE ALCOHOL; 4-HYDROXY-4-METHYL-2-PENTANONE CAS #: 123-42-2		0-11	50 pp	•	50 ppm	1.0 0	20C		
PIGMENTS: MIYTURE: #: NOT AVAILABLE		0-9	10 mg Total dust		15 mg/m3 Total dust		N/A	(	6)
ALUMINUM COMPOUNDS: CAS #: 7429-90-5;		0-9	10 mg	/m3	15 mg/m3 Total Dusts		N/A	(	7)

PRODUCT CODE: GVNL		NAZDAR CHICAGO	PAGE:	2 OF	
CARBON BLACK: P'THENT BLACK: #: 1333-86-4	0-5	3.500 mg/m3	35.00 mg/m3	N/A	
* ZINC COMPOUNDS: CAS #: 7440-66-6:	0-2	10 mg/m3 Total dust	15 mg/m3 Total dust	N/A	(8)
* SUBJECT TO REPORTING REQUIREMENT OF SECTION OF SARA (40 CFR PART 372).	TION 313 OF TITLE	I,	1	1	
<ol> <li>This chemical is included on the list 1990.</li> <li>Supplier recommended exposure limit</li> <li>Industry recommended exposure limit</li> <li>This chemical is included on the list 1990.</li> <li>CAS # and exposure limits are for co</li> <li>See Section 8 Exposure Controls. Per CAS # and TLV are for metal dusts.</li> </ol>	of 50 ppm. of 100 ppm. st of Hazardous Air opper dusts and mis- sonal Protection-	Pollutants (HAPs) from ts. Exposure Guidelines for	s Title III of the Clean	s Air Act Amendmen	
<ol> <li>See Section 8 Exposure Controls, Per</li> </ol>	sonal Protection for	or more information on	above exposure limits.		
The recommended permissible exposure 1 of the 1989 levels have since been vac reasonable worker protection. NOTE: Due to the broad spectrum of col those specified in the Canadian Contro with this regulation contact Nazdar.	ors each MSDS may in 11ed Product Regula	represent, ranges of so ations. If specific of	the lower exposure leve	els be observed as	
SECTION 3	HAZARDS IDENTIFICA				
	MACANDO IDENTIFICA	AT LUN			
GENERAL HEALTH EFFECTS THE FOLLOWING INFORMATION HAS BEEN DEV health effects of this product are bas products may produce synergistic (add materials used with this product shoul  Eye contact with liquid, vapors or mis swelling and reversible and depart	tive) health effect d be reviewed befor	ts. Cautionary labeling re use.	s use of this product in ng and material safety d	combination with ata sheets of all	other
swerring and reversions eye damage.	to may couse moder o	ace to severe irritation	on, including burning, t	earing, redness o	e
SKIN Repeated or prolonged overexposure may redness. Toxic and may be harmful if	cause skin irritat absorbed through th	tion or dermatitis. Sy ne skin.	mptoms may include dryn	ess, chapping and	
INHALATION Inhalation may cause respiratory tract	irritation. Sympt	coms may include headac	hes, nausea, dizziness	and intoxication.	
INGESTION Ingestion may cause gastrointestinal t	ract irritation. S	symptoms may include ab	dominal pain, nausea, v	omiting and diarr	hea.
CHRONIC EFFECTS/TARGET ORGANS Reports have associated repeated and p damage. Intentional misuse by deliber	noiteauson because		and the same of th		
ANIMAL STUDIES Isophorone is a suspect carcinogen in a cause of the following effects in la mild, reversible liver effects. EEP h fetus occurs only at exposure levels to Diacetone alcohol has been found to careference TSCA Section 4 Test Rule Res	lab animals. Ethyl boratory animals, a as been shown to ca hat harm the pregna	3-ethoxypropionate (E and may aggravate pre-e use harm to the fetus nt animal. The releva	EP) has been suggested, xisting disorders of the in laboratory animal str nce of these findings to	after overexposurese organs in humo	ans: he
HEDICAL CONDITIONS AGGRAVATED BY EXPOSURE Pregnant women and persons with pre-ex Repeated and prolonged overexposure an effects. See Section 3 'Hazards Ident	isting health disor	ders should consult th	eir physician before usi	ing this product. egree of adverse b	health

SECTION 4 -- FIRST AID HEASURES

ROUTES OF EXPOSURE
Primary exposure routes: Inhalation-Dermal (Contact/Absorption)-Ingestion

SECTION 8 -- EXPOSURE CONTROLS, PERSONAL PROTECTION

RESPIRATORY PROTECTION

FIRALORY PROJECTION

If concentrations of hazardous ingredients exceed exposure limits listed in Section 2 an appropriate NIOSH (National Institute for Occupational Safety and Health) approved respirator with an organic vapor cartridge should be used. If material is handled under mist, spray or dust forming conditions, a Pl00 (99.97% efficiency) filter should be used in addition to the organic vapor cartridge. If no exposure limits are listed in Section 2, follow general safety guidelines in 29 CFR 1910.134 Respiratory Protection or other applicable respiratory standard.

SKIN PROTECTION

Use neoprene, nitrile or other gloves resistant to chemicals listed in Section 2. Contact a reputable safety supply company

for appropriate gloves. Solvent resistant aprons are recommended. Prevent prolonged skin contact with contaminated clothing.

PROTECTION

Jse ANSI (American National Standards Institute) approved safety glasses, faceshield or splash proof goggles to prevent eye contact. Contact a reputable safety supply company for appropriate eye protection. The availability of an eye wash is highly

EXPOSURE GUIDELINES

See Section 2 "Composition. Information on Ingredients" for occupational exposure limits. Excessive concentrations of nuisance dusts or particulates not otherwise classified (PNOC) or regulated (PNOC) may reduce visibility and cause unpleasant deposits in the eyes, ears, and nasal passages. The TLV and PEL has been established for all non-toxic "nuisance dusts" that are not otherwise classified and refers to both organic and inorganic dusts. Exposure or generation of these dusts is not anticipated during normal printing operations. The use of dry pignets and powders, grinding or sanding of printed products may generate quantities of these particulates. Refer to Section 2 Composition, Information on Ingredients for exposure limits.

HYGIENIC PRACTICES

Wash with soap and water before eating, smoking or using toilet facilities. Separately wash or discard clothing and footwear before reuse. NEVER try to remove ink from the skin by using solvent or thinner. Such action is likely to increase the possibility of undesirable effects. Remove contaminated clothing to prevent prolonged skin contact.

Use applicable engineering controls, work practices and personal protective equipment to ensure all concentrations are kept below the exposure limits listed in Section 2.

OTHER PROTECTION Not Applicable SECTION 9 -- PHYSICAL AND CHEMICAL PROPERTIES

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APPEARANCE: Viscous liquid

Ornq: Tharacteristic

PHYSICAL STATE: Liquid

Not applicable

VAPOR PRESSURE See Section 2 for individual ingredients.

VAPOR DENSITY

BOILING POINT Greater than 300 degrees Fahrenheit

FREEZING POINT Not available

SOLUBILITY IN WATER Not tested

EVAPORATION RATE Slower than ether

VISCOSITY Greater than water

PERCENT VOLATILE BY VOLUME: SEE SECTION ONE

WEIGHT PER GALLON: SEE SECTION ONE

yor: SEE SECTION ONE

. . OCHEMICALLY REACTIVE

OTHER REGULATORY INFORMATION

Not Applicable

SECTION 16 -- OTHER INFORMATION

DISCLOSURE

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or varranty of any kind express or implied is made with respect to the information contained herein. The data in this MSDS relates only to the specific material designated herein and does not apply to use in combination with any other material or process.

DEFINITIONS

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CEILING: (TLV-Ceiling and PEL Ceiling Limit) The ceiling exposure limit or concentration not to be exceeded for even brief times.

DOT: Department of Transportation

HHIS: The Hazardous Materials Identification System (HHIS) developed by the National Paint and Coatings Association (NPCA) to provide information on the acute health hazards, reactivity and flammability encountered in the workplace at room temperatures.

IARC: International Agency for Research on Cancer

NFPA: National Fire Protection Association

NTP: National Toxicology Program

STEL: Short-Term Exposure Limit: ACGIH terminology for the short-term exposure limit or maximum concentration for a continuous exposure period of 15 minutes.

TLV: Threshold Limit Value. A term ACGIH uses to express the airborne concentration of a material to which most workers can be exposed during a normal daily and weekly work schedule without adverse effects.

TWA: Time-Weighted Average VOC: Volatile Organic Compound