### MATERIAL SAFETY DATA SHEET

HMIS H3\* F3 R0

Date Prepared:

06/09/93

Date Revised :

07/16/91

PREPARED FOR:

PREPARED BY:

39124100 SAUDER MANUFACTURING

STRYKER PLANT 200 HORTON ST

STRYKER OH 43557

AKZO COATINGS INC. (ROANOKE)

2837 ROANOKE AVENUE, S. W.

ROANOKE VA 24015

Emergency Phone Number:

Information Number:

(703)982-8301 (703)982-8301

### SECTION I - PRODUCT INFORMATION

Tradename:

Product No. 830-70L1-1357 Customer Part No.

NA

Product - Class: W. W. REL-PLAZ

/A

DOT Code : UN1263

# SECTION II - HAZARDOUS INGREDIENTS

Hazardous Ingredients	Ingredient Data				
ISOBUTANOL	1% by Weight	22.9 %			
(ISOBUTYL ALCOHOL)	Cas No.	000078-83-1	1		
(2-METHYL-1-PROPANOL)	Vapor Pres.	9.00 68F	mm/Hg		
	TLV-TWA	50.0	ppm _		
	PEL-TWA	50.0	ppm		
	ORAL-LD50	2460.	mg/Kg	RAT	
	DERM-LD50	4240.		RABBIT	
UREA-FORMALDEHYDE RESIN	X by Weight	8.7 %			
	Cas No.				
	Vapor Pres.	NA			
	TLV-TWA	NA			
	PEL-TWA	NA			
MIXED HYDROCARBON	X by Weight	8.0 %			
	Cas No.	064742-48-9	<del>)</del>		
	Vapor Pres.	11.00 68F		- · ·	
	I TLV-TWA	100.0	ppm		
	PEL-TWA	100.0	ppm		
#TOLUENE	  % by Weight	7.9 %			
(TOLUOL)	• • • • •	000108-88-3	3		
(METHYL BENZENE)	Vapor Pres.	22.00 68F	mm/Hg		
	TLV-TWA	50.0	ppm*		
	PEL-TWA	100.0	ppm		
	PEL-STEL	150.0	ppm	15 MINUTES	
	ORAL-LD50	5000.	mg/Kg	RAT	
	DERM-LD50	14000.		RABBIT	

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	inhalation	4000. pp	m RAT-4 HOUR	
ALIPHATIC SOLVENT	% by Weight  Cas No.	6.7 %		
	Vapor Pres.  TLV-TWA	NA NA		
	PEL-TWA	NA		
METHYLATED M/F RESIN	% by Weight  Cas No.  Vapor Pres.	5.7 % 068002-20-0 NA		
	TLV-TWA	NA		
	PEL-TWA	NA		
BUTYL ACETATE	% by Weight			
(ACETIC ACID, BUTYL ESTER) (BUTYL ETHANOATE)	Cas No.  Vapor Pres.	000123-86-4 8.00 68F mm	/Ha	
	TLV-TWA	150.0 pp	m	
	PEL-TWA  TLV-STEL	150.0 pp		
	PEL-STEL	200.0 pp 200.0 pp		
	ORAL-LD50	• •	/Kg RAT	
	inhalation	2000. pp	m RAT	
XYLENE, MIXED ISOMERS	% by Weight			
	Cas No.  Vapor Pres.	001330-20-7 5.10 68F mm	/U.a.	
	TLV-TWA	100.0 pp	_	
	PEL-TWA	100.0 pp		
	ITLV-STEL	150.0 pp		
	PEL-STEL  ORAL-LD50	150.0 pp 4300. mg	m 15 MINUTES /Kg RAT	
	inhalation	5000. pp	<del>-</del>	
METHYL ETHYL KETONE (MEK)	  % by Weight  Cas No.	3.5 % 000078-93-3		
(2-BUTANONE)		83.0@ 75F mm	/Ha	
	TLV-TWA	200.0 pp		
	IPEL-TWA	200.0 pp		
	TLV-STEL  PEL-STEL	300.0 pp		
	ORAL-LD50	• •	/Kg RAT	
	DERM-LD50		/Kg RABBIT	
BUTANOL	X by Weight	3.0 %		
(BUTYL ALCOHOL)	Cas No.	000071-36-3	/!!-	
	Vapor Pres.  TLV-TWA	5.50 68F mm. NA	/ ng	
	PEL-TWA	NA		
	TLV-CEIL	50.0 ppi		
	PEL-CEIL  ORAL-LD50	50.0 pp: 790. mg.	n∗ ⁄Kg RAT	
	DERM-LD50	3400. mg.	/Kg RABBIT	
	linhalation	8000. ppi	n RAT-4 HOUR	
FREE FORMALDEHYDE, MAXIMUM	1% by Weight	.3 %		

SpGr: .92

000050-00-0 ICas No. | Vapor Pres. NA ITLV-TWA NA IPEL-TWA . 7 ppm IPEL-STEL 2.0 DOM 15 MINUTES ITLV-CEIL . 3 ppm |ORAL-LD50 800. mg/Kg RAT 270. mg/Kg RABBIT |DERM-LD50 590. linhalation mg/m3 RAT

†This material is subject to reporting under SARA TITLE III, SECTION 313 All components in this coating have been verified as being on the TSCA Inventory

\* - TOXIC EFFECTS CAN OCCUR BY SKIN ABSORPTION.

#### SECTION III - PHYSICAL DATA

Physical state: LIQUID

Odor and appearance: NA

.0063 Odor threshold (ppm):

pH: NA

Boiling Range: 173 - 300 F ( 78 - 148 C)

Vapor is heavier than Air.

Evaporation rate is slower than ether.

% Volatile (vol) 70.71 Lb/gal(U.S.) 7.71

VOC Data Lb/Gal(U.S.):

Less Water (EPA) 4.78 Total Organic Solvents 4.78

Less Water & Exempt (EPA) 4.78 Total Non-Exempt Solvents 4.78

Solvent Density 6.7600

## SECTION IV - FIRE AND EXPLOSION HAZARDS DATA

FP: (CLOSED) 21 F ( -6 C) LEL .90%

Flammability Class (OSHA): FLAMMABLE LIQUID - 1B

EXTINGUISHING MEDIA: Foam, Carbon Dioxide or Dry Chemical.

JNUSUAL FIRE AND EXPLOSION HAZARDS: During emergency conditions, overexposure to decomposition products (See Section VI - Reactivity Data) may cause a health hazard; symptoms may not be immediately apparent. Obtain medical attention.

PECIAL FIREFIGHTING PROCEDURES: Water may be ineffective in fighting fire. If water is used to cool closed containers to prevent pressure build-up, fog nozzles are preferred. Full protective equipment, including self-contained breathing apparatus is needed to protect firefighters from exposure to coating's hazardous ingredients and hazardous decomposition products.

### SECTION V - HEALTH HAZARD DATA AND FIRST AID PROCEDURES

- FFECTS OF OVEREXPOSURE: CAUSES EYE BURNS. HARMFUL IF SWALLOWED. MAY CAUSE NOSE AND THROAT IRRITATION. CAN BE ABSORBED THROUGH SKIN. CAUSES SKIN BURNS. MAY CAUSE LUNG INJURY. MAY AFFECT THE BRAIN OR NERVOUS SYSTEM, CAUSING DIZZINESS, HEADACHE OR NAUSEA. HARMFUL IF INHALED.
- ther effects of OVEREXPOSURE may include: dizziness, narcosis, headache, pneumoconiosis, drying of nasal mucosa, anesthesia, fatigue, vomiting, cough, weakness, asphixia, drowsiness, gastritis, shortness of breath, unconsciousness, reduced visibility, deposits in eyes, dermatitis, diarrhea, loss of coordination, difficulty with speech, swelling and redness of skin, abdominal pain, necrosis of the skin, lacrimation, conjunctivitis, edema.
- RIMARY ROUTE(S) OF ENTRY: inhalation, skin contact, ingestion, eyes.
- EDICAL CONDITIONS THAT CAN BE AGGRAVATED: pulmonary conditions, skin disorders.

#### HRONIC HEALTH HAZARDS:

- epeated OVEREXPOSURE to this product may cause:central nervous system damage, liver abnormalities, lung damage, spleen damage, cardiac abnormalities, birth defects.
- aution: Contains formaldehyde which caused cancer in laboratory animals by inhalation and is listed as a suspect carcinogen by NTP and IARC (Group-2B). Contains a urea-formaldehyde resin which, under certain conditions, could release formaldehyde in quantities sufficient to require monitoring under OSHA regulations. Formaldehyde is a suspect carcinogen. Contains a melamine-formaldehyde resin which, under certain conditions, could release formaldehyde in quantities sufficient to require monitoring under OSHA regulations. Formaldehyde is a suspect carcinogen.
- OTICE: Reports have associated repeated and prolonged OVEREXPOSURE to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents of this package may be harmful or fatal.
- \*\*\*\*EMERGENCY AND FIRST AID PROCEDURES\*\*\*\*\*.
- KIN CONTACT: Flush with water for at least 15 minutes and get medical attention. Remove contaminated clothing and wash before reuse. Remove and destroy contaminated shoes.
- YE CONTACT: Flush with water for at least 15 minutes and get medical attention.
- NHALATION: Remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Get medical attention.

NGESTION: Get medical attention IMMEDIATELY.

#### SECTION V1 - REACTIVITY DATA

aterial is STABLE under non-emergency conditions.

aterial WILL NOT undergo hazardous polymerization.

AZARDOUS DECOMPOSITION PRODUCTS: oxides of carbon, oxides of nitrogen.
fumes, various hydrocarbons, ammonia, formaldehyde, aldehydes, methanol.

ONDITIONS TO AVOID: heat, open flame, sparks.

ATERIALS TO AVOID: acids, oxidizers, amines, oxygen, alkali metal, chlorinated solvents, aldehydes, nitric acid, liquid chlorine, sodium hypochlorite, calcium hypochlorite, alkanolamines, ammonia, sodium hydroxide.

### SECTION VII - SPILL AND LEAK PROCEDURES

TEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Remove all sources of ignition. Wear appropriate safety equipment as listed in Section VIII. Absorb on inert material and dispose of as below.

ASTE DISPOSAL METHODS: Dispose of in accordance with FEDERAL, STATE and local regulations. Incineration is the preferred method of disposal.

# SECTION VIII - SAFE HANDLING AND USE INFORMATION

- ESPIRATORY PROTECTION: Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during application and handling unless air monitoring demonstrates vapor/mist levels below applicable limits. Follow respirator manufacturer's recommendations for selection and use.
- ENTILATION: Sufficient ventilation must be provided to maintain airborne concentrations below TLV, PEL and LEL limits as listed in Section II.
- ROTECTIVE GLOVES: Chemical resistant protective gloves should be worn when handling this product. Check with glove manufacturer to determine proper glove type.
- YE PROTECTION: Face-shield should be worn.
- THER PROTECTIVE EQUIPMENT: Eye bath and safety shower should be provided.

  Rubber apron should be worn.
- HYGENIC PRACTICES: Good personal hygiene practices are required at all times when handling chemicals. These practices include, but are not limited to, washing when safety equipment is removed, at the end of each shift or when going on breaks and especially if contamination occurs.

#### SECTION IX - SPECIAL PRECAUTIONS

- RECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:All equipment should be grounded. Keep containers closed when not in use. Store in a clean, dry area. Store away from ignition sources. Store in well-ventilated area. Avoid contact with copper, brass and bronze.
- THER PRECAUTIONS: All precautions must be observed. Empty container may retain product residues (vapor or liquid).
- his product contains the following SARA Title III, Section 313, reportable materials: formaldehyde, n-butyl alcohol, methyl ethyl ketone, toluene, xylene (mixed isomers).
- his product contains the following California proposition 65 suspect carcinogens: formaldehyde.
- his product contains the following California Proposition 65 reproductive toxicants: toluene.

# SECTION X - OTHER INFORMATION

- The absence of a positive finding indicates that we believe, to the best of our knowledge, that the negative is true.
- isclaimer: While Akzo Coatings Inc. believes that the data contained herein are accurate and derived from qualified sources, the data are not to be taken as a warranty or representation for which Akzo Coatings Inc. assumes legal responsibility. They are offered solely for your consideration, investigation and verification. Any use of these data and information must be determined by the user to be in accordance with applicable Federal, State and local laws and regulations.

ABBREVIATIONS USED IN PREPARING THIS MSDS : JHMIS - Workplace Hazardous Materials Information System 'SCA - Toxic Substances Control Act FR - Code of Federal Regulations 1g/M3 - Milligrams per Meter Cubed .EL - Lower Explosion Limit P - Flash Point .b/gal - Pounds Per Gallon IA - Not Available or Nonapplicable ng/L - Milligrams Per Liter pm - Parts Per Million nm/Ha - Millimeters of Mercury - Fahrenheit · - Greater Than < - Less Than : - Percent - Pounds CAS No - Chemical Abstract Number HMIS - Hazardous Material Information System )RAL-LD50 - Oral Lethal Dose (50% Death)

INHAL-LC50 - Inhalation Lethal Concentration (50% Death)

ERM-LD50 - Dermal Lethal Dose (50% Death)

EL - Permissable Exposure Limit

LV - Threshhold Limit Value

TEL - Short Term Exposure Limit

EIL - Ceiling Limit

- At

SHA - Occupational Safety and Health Administration

ARC - International Agency for Research on Cancer

TP - National Toxicology Program

ARA - Superfund Amendments & Reauthorization Act (1986)

OT - Bepartment of Transportation