

MATERIAL SAFETY DATA SHEET

RED OXIDE ZINC CHROMATE PRIMER

Page: 1

PRODUCT NAME: RED OXIDE. ZINC CHROMATE PRIMER

HMIS CODES: H F R P

PRODUCT CODE: 34-520

2 3 0 X

===== SECTION I - MANUFACTURER IDENTIFICATION =====

MANUFACTURER'S NAME: KOOL SEAL INC.

ADDRESS: 1499 ENTERPRISE PKWY
TWINSBURG, OH 44087

EMERGENCY PHONE: (800) 358-8810

DATE PRINTED: 04/14/00

INFORMATION PHONE: (330) 425-4717

NAME OF PREPARER: Paul D. Bauer

===== SECTION II - HAZARDOUS INGREDIENTS / SARA III INFORMATION =====

HAZARDOUS COMPONENTS	OCCUPATIONAL EXPOSURE LIMITS				VAPOR PRESSURE mm Hg @ TEMP	WEIGHT PERCENT	
	CAS NUMBER	OSHA PEL	ACGIH TLV	OTHER			
MINERAL SPIRITS, ALIPHATIC HYDROCARBON	8052-41-3	100 PPM	100 PPM		2.0	68F	40
*ZINC CHROMATE	37300-23-5	.2 ao/a3	.05 ag/Me		N/A		4.10

* Indicates toxic chemical (s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

===== SECTION III - PHYSICAL/CHEMICAL CHARACTERISTIC =====

BOILING RANGE: 334 Deg F

SPECIFIC GRAVITY (H2O=1): 1.3

VAPOR DENSITY: Heavier Than Air

EVAPORATION RATE: Slower Than Ether

COATING V. O.C. : 4.09 LB/GL (490 G/L)

SOLUBILITY IN WATER: Insoluble

APPEARANCE AND ODOR: Viscous Liquid, Solvent odor

===== SECTION IV - FIRE AND EXPLOSION HAZARD DATA =====

FLASH POINT: 104 Deg F

METHOD USED: SETAFLASH

FLAMMABLE LIMITS IN AIR BY VOLUME - LOWER: 1.0% UPPER: n/a

EXTINGUISHING MEDIA: Foam, Alcohol Foam, CO2, Dry Chemical, Water Fog.

SPECIAL FIREFIGHTING PROCEDURES

Full protective equipment with self-contained breathing apparatus worn. Irritating toxic gases present in combustion products. Water may be used to cool containers to prevent pressure build-up or possible ignition.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Vapor is heavier than air and may travel and ignite or flashback if it reaches a source of ignition such as a spark, pilot light, cigarette, or electrical device. Avoid welding or cutting near coating or empty containers. Closed containers may build explosive pressure from heat.

===== SECTION V - REACTIVITY DATA =====

STABILITY: Stable

CONDITIONS TO AVOID

Isolate from heat, electrical equipment, sparks, and open flame. Keep containers tightly closed.

INCOMPATIBILITY (MATERIALS TO AVOID)

Avoid strong oxidizing agents.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

Carbon dioxide, carbon monoxide, and resin decomposition products.

MATERIAL SAFETY DATA SHEET

===== **SECTION VI - HEALTH HAZARD DATA** =====

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Excessive inhalation of vapors can cause nasal & respiratory irritation, dizziness, weakness, fatigue, nausea, headache and possible unconsciousness and asphyxiation.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Repeated or prolonged contact causes irritation and may cause defatting and dermatitis. Eye contact from vapor can cause irritation. If so, obtain medical attention.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Prolonged or repeated contact can cause mild irritation, defatting, and dermatitis.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Swallowing can cause gastrointestinal irritation, nausea, vomiting, and diarrhea. Aspiration of material into the lungs, due to vomiting, can cause chemical pneumonitis, which can be fatal.

HEALTH HAZARDS (ACUTE AND CHRONIC)

PRIMARY ROUTES OF ENTRY: Inhalation, skin contact.

CHRONIC OVEREXPOSURE OF COMPONENTS, has been found to cause the following effects in laboratory animals: anemia, liver abnormalities, kidney damage, eye damage. Overexposure to lead chromate may cause neurological, kidney, and reproductive effects and anemia.

CARCINOGENICITY: NTP CARCINOGEN: Yes IARC MONOGRAPHS: No OSHA
REGULATED: Yes

Lead chromate has been listed by the NTP and IARC as a carcinogen.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Suspect lung carcinogen from respirable dust.

EMERGENCY AND FIRST AID PROCEDURES

SKIN: Thoroughly wash exposed area with soap and water. Remove contaminated clothing.

IF IN EYES: Flush with large amounts of water, lifting upper and lower lids occasionally. Get medical attention.

IF BREATHED: If affected, remove individual to fresh air. If breathing is difficult administer oxygen. Keep person warm and quiet and get medical attention.

===== **SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE** =====

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Recover with sorbents, vermiculite or other absorbent material. Place in appropriate containers for disposal. Flammable liquid, avoid ignition. Do not flush into sewers or streams. Wear appropriate protective equipment.

WASTE DISPOSAL METHOD

1) Recycle if feasible. 2) Incinerate at authorized facility. 3) Treat at industrial or liquid waste treatment facility. 4) Landfill after solidification in an authorized facility. THIS MATERIAL WOULD BE CLASSIFIED A HAZARDOUS IGNITABLE WASTE AND SHOULD BE DISPOSED OF IN ACCORDANCE WITH REGULATIONS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Keep away from heat, sparks, and other sources of ignition. Use with adequate ventilation. Keep containers closed. Ground and bond equipment against static build-up when pouring, dispensing, and mixing.

OTHER PRECAUTIONS

MATERIAL SAFETY DATA SHEET

RED OXIDE ZINC CHROMATE PRIMER

Page: 3

===== **SECTION VIII - CONTROL MEASURES** =====

RESPIRATORY PROTECTION

Respiratory protection is not generally required for this product when ventilation is adequate. HOWEVER, WHEN THIS PRODUCT IS BLENDED WITH THE APPROPRIATE ISOCYANATE COREACTANT CARE MUST BE TAKEN TO FOLLOW THE RECOMMENDATION CONTAINED IN THE MSDS FOR THAT PRODUCT.

VENTILATION

Use with adequate ventilation such as standard spray booth.

PROTECTIVE GLOVES

Use protective gloves to prevent prolonged contact with the skin.

EYE PROTECTION

Use safety glasses or splash resistant goggles.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

Use apron to avoid contamination of clothing.

WORK / HYGIENIC PRACTICES

Persons with pre-existing skin disorders may be more susceptible to the effects of this product.

===== **SECTION IX - DISCLAIMER** =====

This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief accurate and reliable as of the date compiled. However, no representation, warranty or guarantee, expressed or implied, is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself the suitability and completeness of such information for his own particular use.