

Shield Products

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: -Epoxy Coating

HMIS RATINGS

PRODUCT CODE: SKU20900A

H2 F3 R0

SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: Shield Products-
Jacksonville, FL 32223EMERGENCY PHONE: 1-800-255-3924 (Chemtel 24 Hour
Emergency) INFORMATION PHONE: 904-880 6060

DATE PREPARED: 04/09/01

SECTION II - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENT	CAS NUMBER	OSHA PEL	ACGIH TLV	VAPOR PRESS mmHg @ TEMP	SARA SEC. 313 *	WT. PERCENT
METHYL ISOBUTYL KETONE	108-10-1	100 PPM	50 PPM	28.0@68	YES	5 - 15
XYLENE	1330-20-7	100 PPM	100 PPM	6.0@68	YES	<5
TOLUENE	108-88-3	100 PPM	50 PPM	22.0@68	YES	5
ETHYLENE GLYCOL BUTYL ETHER	111-76-2	25 PPM (Skin)	25 PPM (Skin)	0.6@68	YES	5 - 10
N-BUTYL ALCOHOL	71-36-3	50 PPM		5.5@68	YES	5
AROMATIC HYDROCARBON SOLVENT	64742-95-6	100 PPM	100 PPM	2.0@68		5 - 10
1,2,4-TRIMETHYLBENZENE	95-63-6	25 PPM	25 PPM	N/A	YES	<5
SILICON DIOXIDE	7631-86-9	20 MPPCF	10 MG/M3	N/A		0 - 5
TITANIUM DIOXIDE	13463-67-7	15 MG/M3	10 MG/M3	N/A		0 - 35
IRON OXIDE	1309-37-1	5 MG/M3		N/A		0 - 5
RED IRON OXIDE	1309-37-1	10 MG/M3	10 MG/M3	N/A		0 - 30
BARIUM SULFATE	7727-43-7	10 MG/M3	10 MG/M3	N/A		0 - 10
STRONTIUM CHROMATE	7789-06-2			N/A	YES	0 - 15
CARBON BLACK	1333-86-4	3.5 MG/M3	3.5 MG/M3	N/A		0 - 5
COPPER PHTHALOCYANINE	147-14-8	1 MG/M3	1 MG/M3	N/A		0 - 2
YELLOW IRON OXIDE	51274-00-1	10 MG/M3	10 MG/M3	N/A		0 - 5
CHROMIUM OXIDE	1308-38-9	1 MG/M3	0.5 MG/M3	N/A	YES	0 - 35
NICKEL TITANATE	8007-18-9	15 MG/M3 (for TiO2)	15 MG/M3 (for TiO2)	N/A	YES	0 - 10

* Ingredients marked YES are subject to the reporting requirements of the Superfund Amendments and Reauthorization Act (SARA) Section 313, 40 CFR 372.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: 228°F

APPEARANCE & ODOR: Typical paint solvent odor

VAPOR DENSITY: Heavier than air

SPECIFIC GRAVITY (H2O = 1): 1.4

VOC TOTAL (lb/gal): 4.3

EVAPORATION RATE: Slower than ether

VOC Less Water and Exempt Solvents (lb/gal): 4.3

SOLUBILITY IN WATER: Negligible

SECTION IV - FIRE & EXPLOSION HAZARD DATA

FLASH POINT: 74°F METHOD

FLAMMABLE LIMITS IN AIR BY VOLUME -

USED: Setflash

LOWER: 0.9

UPPER: 10.6

UNUSUAL FIRE AND EXPLOSION

SPECIAL FIRE FIGHTING PROCEDURES:

HAZARDS:

Closed containers may explode when exposed extreme heat. Application to hot surfaces requires special precautions. Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up.

During emergency conditions over exposure to decomposition products may be a health hazard. Symptoms may not be immediately apparent. Obtain medical attention. Keep containers tightly closed. Isolate from heat, sparks, and open flame.

EXTINGUISHING MEDIA: FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL

SHIELD PRODUCTS

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Product Name: Epoxy Coating-SKU20900^A**SECTION V – REACTIVITY DATA**

STABILITY: Stable

CONDITIONS TO AVOID: High Temperatures

INCOMPATIBILITY (MATERIALS TO AVOID): Oxidizing materials HAZARDOUS

DECOMPOSITION OR BYPRODUCTS: May produce hazardous fumes when heated to decomposition as in welding.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION VI – HEALTH HAZARD DATA**INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:**

Anesthetic, excessive inhalation can cause irritation of the respiratory tract, or acute nervous system depression characterized by headache, dizziness, staggering gait, confusion, unconsciousness, coma and even asphyxiation.

INGESTION HEALTH RISKS & SYMPTOMS OF EXPOSURE:

Gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possibly even death.

SKIN & EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

Skin: Moderate irritation, defatting, dermatitis. May be a sensitizer in some individuals. Eyes: Severe irritation, redness, tearing, blurred vision. May be a sensitizer in some individuals

HEALTH HAZARDS (ACUTE AND CHRONIC):

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.

SKIN ABSORPTION HEALTH RISKS & SYMPTOMS OF EXPOSURE:

Liquid can be absorbed through the skin resulting in symptoms similar to the inhalation effects above.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Exposure to petroleum solvents may aggravate preexisting dermatitis.**CARCINOGENICITY:**

NTP? No IARC MONOGRAPHS? No OSHA REGULATED? No

EMERGENCY AND FIRST AID PROCEDURES:

Skin: Wash affected areas with soap and water. Remove and launder contaminated clothing. Consult a physician if needed. Eyes: flush immediately with large amounts of water for at least 15 minutes. Take to a physician for medical treatment. Ingestion: Drink 1 or 2 glasses of water to dilute. Do not induce vomiting. Get medical help immediately.

SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Remove all sources of ignition (flame, hot surfaces, and electrical, static or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations. Incinerate in approved facility. Do not incinerate closed containers.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not store above 120 F. Store large quantities only in buildings designed to comply with OSHA 1910.106. Keep closures tight and container upright to prevent leakage. Do not store or use near heat, sparks or flame. Never use pressure to empty. Drum must not be washed out or used for other purposes. Drums of this material should be grounded when pouring.

OTHER PRECAUTIONS:

Do not get in eyes. Avoid skin contact. Can cause allergic respiratory reaction. Can cause allergic skin reaction. Prevent prolonged or repeated breathing of vapors or spray mist. Avoid breathing of sanding dust. Wash contaminated clothing thoroughly. Wash skin thoroughly with soap and water after handling. Close container after each use. Do not transfer this product to unlabeled containers. Do not handle until the manufacturer's safety precautions have been read and understood. Keep out of reach of children.

SECTION VIII – CONTROL MEASURES**RESPIRATORY PROTECTION:**

Use a NIOSH-approved respirator to prevent overexposure, when exposure exceeds occupational exposure limits (Section II). Use either an atmosphere-supplying respirator or an air-purifying respirator for organic vapors in compliance with 29 CFR 1910.134, with provision for mist removal if conditions so indicate.

VENTILATION:

All application areas should be ventilated in accordance to OSHA regulation 29 CFR 1910.94, 1910.107, 1910.108. Remove decomposition products formed during welding or flame cutting on surface coated with this product. If baking, vent fumes.

PROTECTIVE GLOVES:

Recommended.

EYE PROTECTION:

Safety eyewear including splashguards or side shields recommended.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

Use protective outerwear and prevent prolonged skin contact with contaminated clothing.

WORK/HYGIENIC PRACTICES:

Avoid breathing vapors and contact with skin. Wash skin thoroughly before breaks and meals and at end of work period.

Disclaimer: Applicator must be certified to apply product product and be issued a warranty. It is the responsibility of the Applicator or purchaser to determine the compatibility of the substrate that Shield Products are applied to. We will provide information to the best of our ability but will not warrant or be held responsible for results which we have no control over. We warrant our products fully as described.