

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: Type IIM Epoxy Catalyst

HMS CODES: H F R P
1* 0 0 H

PRODUCT CODE: IIM CAT (T-2)

SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: INDUSTRIAL COATINGS
ADDRESS: 5521 Mitchelldale, Houston, Texas 77092
EMERGENCY PHONE: 1-800-424-9300

10029902 C04-3002
MARKER, PAVEMENT EPOXY A+B RESIN 2 QT.
WHSE: 101 U/M: KIT

INFORMATION PHONE: 713-686-3411

DATE REVISED : 3-01-12
REASON REVISED : Update

NAME OF PREPARER : Larry Hannusch

SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION

| HAZARDOUS COMPONENTS | CAS NUMBER | OCCUPATIONAL EXPOSURE LIMITS | | | VAPOR PRESSURE | | WEIGHT PERCENT |
|----------------------|------------|------------------------------|-----------|-------|----------------|------|----------------|
| | | OSHA PEL | ACGIH TLV | OTHER | mm Hg @ | TEMP | |
| amine curing agent | 140-31-8 | na | na | na | 0.1 | 68F | 15 |

*** No toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 are present. ***
Although various components of this product may not be classified by OSHA or ACGIH as hazardous, some users may develop skin or eye sensitivities to continued exposure to this product.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: 432 Deg F **SPECIFIC GRAVITY (H2O=1):** 1.
VAPOR DENSITY: HEAVIER THAN AIR **EVAPORATION RATE:**
SLOWER THAN ETHER
MATERIAL V.O.C.: N/A
SOLUBILITY IN WATER:
Negligible
APPEARANCE AND ODOR:
Thick black paste with pungent odor.

| | |
|----|---|
| H | 1 |
| F | 0 |
| R | 0 |
| PP | H |

LAST MANUFACTURED BY HESKON, OMAHA, NE, USA
BY EXHIBIT CORPORATION 11X 111

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 212 Deg F **METHOD USED:** pmcc
FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: 1.0% UPPER:
N/A

EXTINGUISHING MEDIA: FOAM, CO2, DRY CHEMICAL

SPECIAL FIREFIGHTING PROCEDURES

Water spray may be ineffective on fire but can protect firefighters and help cool closed containers. Use full bunker gear when entering confined fire space. Use NIOSH approved positive pressure self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may burst in the presence of extreme heat. Isolate containers from open flame, heat, sparks, electrical equipment, and oxidizers. Applying to hot surfaces requires special precautions. Empty containers are considered very hazardous due to the residual fumes present.

SECTION V - REACTIVITY DATA

**STABILITY: STABLE
CONDITIONS TO AVOID**

isolate from extreme heat, open flame, sparks, electrical equipment, and strong oxidizers.

INCOMPATIBILITY (MATERIALS TO AVOID)

isolate from strong oxidizers such as permanganates and peroxides.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

NO from burning.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION VI - HEALTH HAZARD DATA

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

dizziness, loss of equilibrium, nausea.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

KIN: Possible rash, defatting, dermatitis.

YES: Redness, tearing, blurred vision.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

eczematitis, irritation; absorption through the skin increases exposure and may be harmful.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

nausea, dizziness, abdominal irritation, vomiting, diarrhea.

HEALTH HAZARDS (ACUTE AND CHRONIC)

ACUTE: Respiratory irritation, headaches, dermal irritation; may be fatal if swallowed.

CHRONIC: Vapor harmful, absorption through the skin may be harmful. Vapor and liquid can cause eye irritation.

MUTAGENICITY: NTP? NO IARC MONOGRAPHS? NO OSHA REGULATED? NO
not established. Overexposure may increase cancer risk.

MEDICAL CONDITIONS: GENERALLY AGGRAVATED BY EXPOSURE

Persons with severe skin, liver, or kidney problems should avoid use.

EMERGENCY AND FIRST AID PROCEDURES

In case of contact with skin, wash thoroughly with soap and water. For eyes, immediately flush with plenty of water for 15 minutes and CALL A PHYSICIAN. Remove and wash contaminated clothing before reuse. After high vapor exposure, remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. If swallowed, do not induce vomiting and call a physician immediately.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Stop spill at source. Dike area and contain. Pump spilled material into approved DOT containers. Remove remainder with absorbent material and also place in approved DOT containers.

WASTE DISPOSAL METHOD

Dispose of waste by legal means complying with local, state, and federal regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Avoid free fall of material as this can lead to static discharge. Keep containers a safe distance from fire and heat. Empty containers should be considered very hazardous because of the residual vapors.

OTHER PRECAUTIONS

Do not drop containers. Store containers a safe distance from ignition sources.

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION

If air is over specified TLV, use NIOSH approved positive-pressure self-contained breathing apparatus in accordance with CFR 1910.134.

VENTILATION

Local exhaust necessary, (mechanical acceptable), using only explosion proof equipment.

PROTECTIVE GLOVES

Wear OSHA standard gloves.

EYE PROTECTION

Always wear protective goggles when handling this material.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

Wear gloves, apron, and footwear impervious to this material. Wash clothing prior to reuse.

WORK/HYGIENIC PRACTICES

Always wash hands and skin with soap and water after using this product.

SECTION IX - DISCLAIMER

DISCLAIMER

The information herein is given in good faith, but no warranty, expressed or implied, is made. These recommendations are offered for the user's consideration and examination, and it is the user's responsibility to satisfy itself that they are suitable and complete for its particular use. Buyer assumes all risks and liabilities in using this product.

MATERIAL SAFETY DATA SHEET

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PRODUCT NAME: B22 epoxy resin

HMIS CODES: H F R P
1* 0 0 H

PRODUCT CODE: B22 RESIN

SECTION I - MANUFACTURER IDENTIFICATION

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ADDRESS: 5521 Mitchelldale, Houston, Texas 77092
EMERGENCY PHONE: 1-800-424-9300

INFORMATION PHONE: 713-686-3411

DATE REVISED : 06-01-11
REASON REVISED : Update

NAME OF PREPARER : Larry Hannusch

SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION

| HAZARDOUS COMPONENTS | CAS NUMBER | OCCUPATIONAL EXPOSURE LIMITS | | | VAPOR PRESSURE mm Hg @ TEMP | WEIGHT PERCENT |
|----------------------|------------|------------------------------|-----------|-------|--------------------------------|-------------------|
| | | OSHA PEL | ACGIH TLV | OTHER | | |
| 1,4-dioxane | 68609-97-2 | | | | 0.1 70F | < 5.0% |

** No toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 are present. *** Although various ingredients of this product may not be classified by OSHA or ACGIH as hazardous, some users may develop skin or eye sensitivities to continued exposure to this product.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: 1424 Deg F SPECIFIC GRAVITY (H2O=1): 1.

VAPOR DENSITY: HEAVIER THAN AIR EVAPORATION RATE:
LOWER THAN ETHER
MATERIAL V.O.C.: N/A
SOLUBILITY IN WATER:
Insoluble
APPEARANCE AND ODOR:
Thick white paste with slight sweet odor.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 302 Deg F METHOD USED: tcc
FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: N/A UPPER:
N/A

EXTINGUISHING MEDIA: FOAM, CO2, DRY CHEMICAL

SPECIAL FIREFIGHTING PROCEDURES

Water spray may be ineffective on fire but can protect firefighters and help cool closed containers. Use full bunker gear when entering confined fire space. Use NIOSH approved positive pressure self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may burst in the presence of extreme heat. Isolate containers from open flame, heat, sparks, electrical equipment, and oxidizers. Applying to hot surfaces requires special precautions. Empty containers are considered very hazardous due to the residual fumes present.

SECTION V - REACTIVITY DATA

**STABILITY: STABLE
CONDITIONS TO AVOID**

Isolate from extreme heat, open flame, sparks, electrical equipment, and strong oxidizers.

INCOMPATIBILITY (MATERIALS TO AVOID)

Isolate from strong oxidizers such as permanganates and peroxides.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

None from burning.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION VI - HEALTH HAZARD DATA

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Dizziness, loss of equilibrium, nausea.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

SKIN: Possible rash, defatting, dermatitis.

EYES: Redness, tearing, blurred vision.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Dermatitis, irritation; absorption through the skin increases exposure and may be harmful.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Nausea, dizziness, abdominal irritation, vomiting, diarrhea.

HEALTH HAZARDS (ACUTE AND CHRONIC)

ACUTE: Respiratory irritation, headaches, dermal irritation; may be fatal if swallowed.

CHRONIC: Vapor harmful, absorption through the skin may be harmful. Vapor and liquid can cause eye irritation.

CARCINOGENICITY: NTP? NO IARC MONOGRAPHS? NO OSHA REGULATED? NO
Not established. Overexposure may increase cancer risk.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Persons with severe skin, liver, or kidney problems should avoid use.

EMERGENCY AND FIRST AID PROCEDURES

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OTHER PRECAUTIONS

Do not drop containers. Store containers a safe distance from ignition sources.

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION

If air is over specified TLV, use NIOSH approved positive-pressure self-contained breathing apparatus in accordance with 29 CFR 1910.134.

VENTILATION

Local exhaust necessary, (mechanical acceptable), using only explosion proof equipment.

PROTECTIVE GLOVES

Wear OSHA standard gloves.

EYE PROTECTION

Always wear protective goggles when handling this material.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

Wear gloves, apron, and footwear impervious to this material. Wash clothing prior to reuse.

WORK/HYGIENIC PRACTICES

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