

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: PM2058A BLACK EPOXY "A" SIDE
PRODUCT CODE: PM2058A BL

HMIS CODES: H 2 F 3

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

MANUFACTURER'S NAME: RILEY BROTHERS, INC.
ADDRESS: 860 Washington, Burlington, Iowa 52601
EMERGENCY PHONE: 1-800-424-9300 **INFORMATION PHONE:** 319-753-0
DATE REVISED : 03-16-93 **NAME OF PREPARER :** Riley Bro

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

HAZARDOUS COMPONENTS	CAS NUMBER	OCCUPATIONAL EXPOSURE LIMITS			VAPOR PRESSURE mm Hg
		OSHA PEL	ACGIH TLV	OTHER	
*METHYL ISOBUTYL KETONE/MIBK	108-10-1		100PPM		15.0
*DIMETHYLBENZENE OR XYLOL	1330-20-7	100	100	150 STEL	25.0
*FORMALDEHYDE	50-00-0	0.75PPM		STEL 2PPM	3284.0
BUTYL CELLOSOLVE, ETHYLENE GLYCOL BUTYL ETHER	111-76-2	50	25		0.9

* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 3

=====**SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS**=====

BOILING RANGE: -19 to 340 Deg F **SPECIFIC GRAVITY (H2O=1):**
VAPOR DENSITY: HEAVIER THAN AIR **EVAPORATION RATE:** SLOWER THAN
COATING V.O.C. : 3.76 LB/GL (450 G/L)
MATERIAL V.O.C.: 3.66 LB/GL (438 G/L)
SOLUBILITY IN WATER: INSOLUBLE
APPEARANCE AND ODOR: BLACK COATING/SOLVENT ODORS

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

FLASH POINT: 60 Deg F **METHOD USED:** TCC
FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: 1.1% **UPPER:** 10.6%
EXTINGUISHING MEDIA: FOAM, CO2, DRY CHEMICAL

SPECIAL FIREFIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used. RED LABEL - FLAMMABLE LI

UNUSUAL FIRE AND EXPLOSION HAZARDS

Should be stored in tightly closed containers away from heat, electrical equipment, sparks and open flame.

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

**STABILITY: STABLE
CONDITIONS TO AVOID**

Elevated temperatures and open containers.

INCOMPATIBILITY (MATERIALS TO AVOID)

Avoid strong oxidizing materials

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

May produce hazardous fumes when heated to decomposition as in welding. Fumes may contain carbon monoxide.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

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

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Anesthetic irritation of the respiratory tract or acute nervous system depression characterized by dizziness, staggering, confusion.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Severe irritant, redness, tearing and blurred vision. Prolonged or repeated exposure can cause moderate irritation, defatting and dermatitis.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Penetrates skin readily. Frequent or widespread contact may result in absorption of potentially harmful amounts which can cause damage to kidneys, liver, blood and/or bone marrow.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

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

HEALTH HAZARDS (ACUTE AND CHRONIC)

Acute-Anesthetic irritation of the respiratory tract or acute nervous system depression characterized by headache, dizziness, staggering, confusion. Skin or eye contact: Primary irritant.

Chronic-Extensive and continued overexposure may result in respiratory or skin sensitivity.

CARCINOGENICITY: NTP? YES IARC MONOGRAPHS? YES OSHA REGULATED? YES

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE**EMERGENCY AND FIRST AID PROCEDURES**

Remove to fresh air. Wash skin contact area with soap and water. Flush eyes with water and report to physician 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. Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and nonsparking tools.

WASTE DISPOSAL METHOD

Dispose 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

Contains Solvent. Keep away from heat, sparks, open flames. Use with adequate ventilation. Avoid prolonged or repeated breathing of vapors. Avoid prolonged or repeated skin contact. Do not leave containers open.

OTHER PRECAUTIONS

Do not take internally. Avoid prolonged contact with skin, ground all container when pouring in flammable atmosphere.

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

RESPIRATORY PROTECTION

In restricted areas, use approved chemical mechanical filters to remove gas and vapors. In a confined area, use approved air purifying type respirators or hoods.

VENTILATION

Local exhaust is preferable; however, general mechanical is acceptable. Sufficient ventilation, in volume and pattern, should be provided to keep the vapor concentration below applicable OSHA requirements.

PROTECTIVE GLOVES

Use neoprene gloves to prevent skin contact.

EYE PROTECTION

Use chemical goggles.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

Safety showers and eyewash fountains

WORK/HYGIENIC PRACTICES

Wash hands before eating or using washroom. Smoke in smoking areas only.

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

DISCLAIMER

The information in this MSDS and environmental data sheet was obtained from sources which we believe are reliable. However, the information is provided without any representation or warranty, expressed or implied, regarding its accuracy or completeness.

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: PM2058B BLACK EPOXY "B" SIDE
PRODUCT CODE: PM2058B BL

HMIS CODES: H F R P
 2 3 0 X

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

MANUFACTURER'S NAME: RILEY BROTHERS, INC.
ADDRESS: 860 Washington, Burlington, Iowa 52601
EMERGENCY PHONE: 1-800-424-9300 **INFORMATION PHONE:** 319-753-0105
DATE REVISED : 03-16-93 **NAME OF PREPARER :** Riley Brothers Inc.

===== **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		
*2-PROPANOL, ISOPROPYL ALCOHOL	67-63-0	400	400	500 STEL	33.0 68F	12
*PETROLEUM SOLVENT, TOLUENE	108-88-3	200	100		22.0 68F	12
*DIMETHYLBENZENE OR XYLOL	1330-20-7	100	100	150 STEL	25.0 77F	7
BUTYL CELLOSOLVE, ETHYLENE GLYCOL BUTYL ETHER	111-76-2	50	25		0.9 77F	20

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

===== **SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS** =====

BOILING RANGE: 180 to 340 Deg F **SPECIFIC GRAVITY (H2O=1):** 1.0
VAPOR DENSITY: HEAVIER THAN AIR **EVAPORATION RATE:** SLOWER THAN ETHER
COATING V.O.C. : 4.20 LB/GL (504 G/L)
MATERIAL V.O.C.: 4.20 LB/GL (504 G/L)
SOLUBILITY IN WATER: INSOLUBLE
APPEARANCE AND ODOR: COATING/SOLVENT ODORS

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

FLASH POINT: 41 Deg F **METHOD USED:** TCC
FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: 1.1% **UPPER:** 12.0%

EXTINGUISHING MEDIA: FOAM, CO2, DRY CHEMICAL

SPECIAL FIREFIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used. RED LABEL - FLAMMABLE LIQUID

UNUSUAL FIRE AND EXPLOSION HAZARDS

Should be stored in tightly closed containers away from heat, electrical equipment, sparks and open flame.

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SECTION V - REACTIVITY DATA
=====**STABILITY: STABLE
CONDITIONS TO AVOID**

Heated temperatures and open containers.

INCOMPATIBILITY (MATERIALS TO AVOID)

Avoid strong oxidizing materials

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

May produce hazardous fumes when heated to decomposition as in welding. Fumes may contain carbon monoxide.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR=====
SECTION VI - HEALTH HAZARD DATA
=====**INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

Anesthetic irritation of the respiratory tract or acute nervous system depression characterized by dizziness, staggering, confusion.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Severe irritant, redness, tearing and blurred vision. Prolonged or repeated exposure can cause moderate irritation, defoliation and dermatitis.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Penetrates skin readily. Frequent or widespread contact may result in absorption of potentially harmful amounts which can cause damage to kidneys, liver, blood and/or bone marrow.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

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

HEALTH HAZARDS (ACUTE AND CHRONIC)

Acute-Anesthetic irritation of the respiratory tract or acute nervous system depression characterized by headache, dizziness, staggering, confusion. Skin or eye contact: Primary irritant.

Chronic-Extensive and continued overexposure may result in respiratory or skin sensitivity.

CARCINOGENICITY: NTP? NO IARC MONOGRAPHS? NO OSHA REGULATED? YES

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE**FIRST AID PROCEDURES**

Flush with water and report to physician immediately.

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SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

Remove all sources of ignition. Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent nonsparking tools.

WASTE DISPOSAL METHOD

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

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Contains Solvent. Keep away from heat, sparks, open flames. Use with adequate ventilation. Avoid prolonged or repeated breathing of vapors. Avoid prolonged or repeated skin contact. Do not leave containers open.

OTHER PRECAUTIONS

Do not take internally. Avoid prolonged contact with skin, ground all containers when pouring in flammable atmosphere.

=====
SECTION VIII - CONTROL MEASURES =====**RESPIRATORY PROTECTION**

In restricted areas, use approved chemical mechanical filters to remove gas and vapors. In a confined area, use air-purifying type respirators or hoods.

VENTILATION

Local exhaust is preferable; however, general mechanical is acceptable. Sufficient ventilation, in volume and pattern, should be provided to keep the vapor concentration below applicable OSHA requirements.

PROTECTIVE GLOVES

Use neoprene gloves to prevent skin contact.

EYE PROTECTION

Use chemical goggles.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

Safety showers and eyewash fountains

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