



MATERIAL SAFETY DATA SHEET

(Complies with OSHA Communication Standard 29 CFR 1910.1200 Dept. of Labor)

Form approved OMB No. 1218-0072

OSHA 174 - September 1985

HMIS RATING

HEALTH

FLAMMABILITY

REACTIVITY

NFPA RATING

HEALTH 2

FLAMMABILITY 0

REACTIVITY 0

IDENTITY:

MRS-3

BULK MOLD RELEASE SOLVENT

Marketer's Name Must Appear Below

DOT Shipping-KEEP AWAY FROM FOOD, 1897, Class 6.1

Manufacturer's Name

PLASTIC PROCESS EQUIPMENT, INC.

Emergency Telephone Number

1-800-535-5053

Address

8303 CORPORATE PARK DRIVE

Telephone Number for Information

(216) 367-7000

MACEDONIA, OHIO 44056

Date Prepared

10/18/07

CHECKED

Section 2- Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity, Common Name(s))	OSHA PEL	ACGIH TLV	STEL	% (optional)
TETRACHLOROETHYLENE (127-18-4)	25ppm	50ppm	200ppm	100

All chemical compounds marked with an asterisk () are toxic chemicals subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372. You must notify each person to whom this mixture or trade name product is sold. This statement must remain a part of this Material Safety Data Sheet.

Section 3- Physical/Chemical Characteristics

Boiling Point	Range	250°F (121.1°C)	Specific Gravity (H ₂ O=1)	1.62 @ 25/25°C
Vapor Pressure @ 70°F		5.8	Melting Point	NA
Vapor Density (Air=1)	Heavier than air	13mm Hg@ 20° C	Evaporation Rate	0.1
Solubility in Water	0.015 gm/100 gm @ 25° C		Appearance and Odor	CLEAR LIQUID/ SWEET ODOR

Section 4- Fire and Explosion Hazard Data

Flash Point (Method Used)	NONE (TCC)	Flammable Limits	LEL	UEL
Extinguishing Media	NFPA HAZARD RATINGS: HEALTH 2, FLAMMABILITY 0, REACTIVITY 0			
Special Fire Fighting Procedures				
Unusual Fire and Explosion Hazards	FIREFIGHTERS SHOULD WEAR SELF-CONTAINED, POSITIVE-PRESSURE BREATHING APPARATUS AND AVOID SKIN CONTACT.			

Section 5- Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	X	High Temperatures

Incompatibility (Materials to avoid) Incompatible with strong oxidizers

Hazardous Decomposition or Byproducts In Fire, will decompose to carbon dioxide and water

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will not Occur	X	None

Section 6- Health Hazard Data

Route(s) of Entry	Inhalation? yes	Skin? yes	Ingestion? yes
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Health Hazards (Acute & Chronic)

Inhalation: Major potential route of exposure. 100ppm for 7 hours causes mild irritation to eyes, nose, and throat; flushing of face and neck; headache, slurred speech, and drowsiness. 200 ppm for one hour causes the same symptoms, plus dizziness and light-headedness. 600 ppm for ten minutes causes sensation of numbness around mouth, dizziness, and incoordination; 2,000 ppm causes mild narcosis within 5 minutes. 5,000 ppm cannot generally be tolerated and causes vertigo, nausea, and mental confusion. Unconsciousness or death can occur at extremely high concentrations or on prolonged exposures above 500 ppm. Remove to fresh air. If breathing stops, administer artificial respiration. Call a physician.

Skin: Prolonged or repeated contact of liquid can cause irritation, defatting of skin, and dermatitis. Prolonged single exposure can result in progressively severe burning sensation and redness. Absorption through intact skin is possible if contact with liquid is prolonged. Remove contaminated clothes and shoes. Wash exposed areas thoroughly with soap and water. Wash clothing before use.

Eyes: Liquid in eyes produces pain and irritation with mild temporary damage possible. Vapor can irritate eyes. Flush eyes with water for 15 minutes. If irritation persists, call a physician.

Ingestion: single dose toxicity is moderate and causes severe gastrointestinal irritation with nausea, vomiting, stomach cramps, and diarrhea likely. If vomiting occurs, perchloroethylene can be aspirated into lungs, which can cause chemical pneumonia and systemic effects.

Carcinogenicity: Presently not on any list.	NTP?	IARC Monographs?	OSHA Regulated?
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Signs and Symptoms of Exposure Acute and chronic liver disease, rhythm disorders of the heart, and neuritis.

Medical Conditions: Generally aggravated by exposure: heart disease; respiratory disorders.

Emergency and First Aid Procedures Give oxygen- do not induce vomiting- gastric lavage- wash eyes and skin with water.

Call a physician immediately. Adrenalin should never be given to overexposed perchloroethylene victims.

Section 7- Precautions for safe handling and use, Storage & Handling**Precaution to be taken in handling and storing**

Follow protective controls set forth in Section VII when handling this product. Store in labeled, sealed containers in a cool, dry, well-ventilated area. Prevent water or moist air from entering storage tanks or containers. Do not cut or weld on empty or full drums. Aluminum equipment should not be used for storage and/or transfer. Vapors are heavier than air and will collect in low areas. Do not enter confined spaces such as tanks or pits without following proper entry procedures such as ASIM D-4276. do not remove or deface label.

Do not reuse drum without recycling or reconditioning in accordance with any applicable federal, state, or local laws.

SARA Title III Hazard Categories: Immediate Health, delayed Health.

Steps to be taken in case material is spilled

Evacuate the area, ventilate, and avoid breathing vapors. Dike area to contain spill. If spill occurs indoors, turn off heating and/or air conditioning systems, to prevent vapors from contaminating entire building. Clean up area (wear protective equipment, refer to section VII) by mopping or with absorbent material and transfer to closed containers for disposal. Avoid contamination of ground and surface waters. Do not flush to sewer. Reportable Quantity (RQ) is 100 lbs. Notify National Response Center (800/424-8802) of uncontrolled spills in excess of RQ.

Waste Disposal Method

Recovered liquids may be sent to a licensed reclaimer or incineration facility. Contaminated material must be disposed of in a permitted waste management facility. Consult federal, state, or local disposal authorities for approved procedures.

Control Measures

Local exhaust- yes

Protective Gloves- None required if spraying

Eye Protection- wear eye protection
Work/Hygienic practices: do not smoke while using. Wash hands after use.

Other protective clothing required: Long sleeve shirt & pants