

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name: Paintable Ester MR

Product Code: 131400

Product Type: Aerosol

Product Use: Mold Release

Manufacturer: IMS Company	Emergency Phone	800-424-9300
Address: 10373 Stafford Road	Prepared by	Product Safety Advisor
Chagrin Falls, OH 44023-5296	Prepared/Revised	May 31, 2011
WEB www.imscompany.com	E-mail	sales@imscompany.com

NOTE: The information contained herein is accurate to the best of our knowledge. We do not suggest or guarantee that any hazards listed herein are the only ones which exist. IMS provides this information as guidance for providing personal protection to your employees. The user has the sole responsibility to determine the suitability of the materials for any use and the manner of use contemplated. The user must meet all applicable safety and health standards. IMS provides this information as guidance for providing personal protection to your employees.

2. Composition / Information on Ingredients

Ingredients	CAS #	Percent
1,1,-Difluoroethane (HFC-152a)	75-37-6	25-45 %
Dimethyl Ether	115-10-6	25-45 %
Methyl-2-Pentane	107-83-5	10-22 %
Methyl-3-Pentane	96-14-0	3-9 %
Dimethyl-2,3=Butane	79-29-8	3-9 %
Dimethyl-2,2-Butane	75-83-2	2-7 %
N_Heptane	110-54-3	.5-2 %
Licethin	8029-76-3	.05-10

(1) Supplier Acceptable Exposure Limit.

3. Hazards Identification

CAUTION! FLAMMABLE, CONTENTS UNDER PRESSURE

Odor/Appearance: Clear to amber mist as dispensed from aerosol can.

Potential health effects

Routes of exposure: Skin, eyes, inhalation, ingestion.

Eye Contact:

May cause immediate or delayed irritation. Irritation may show up as redness and/or swelling.
May cause corneal damage.

Skin Contact:

Repeated or prolonged contact with skin may produce redness, irritation and/or dryness. May cause or aggravate dermatitis or other existing skin condition.

Inhalation:

Inhalation of vapors or spray mist may cause headaches, and/or nose and throat irritation.

Ingestion:

Ingestion may cause irritation to the mouth, esophagus, and/or stomach. Liquid ingestion may cause Frostbite. Aspiration hazard. Do not induce vomiting.

Signs or Overexposure:

Signs and symptoms of exposure to this material through breathing, swallowing, and /or passage of a material through the skin may include; stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness).

Target Organs:

Prolonged and repeated exposure to n-hexane may cause peripheral neuropathy by damaging peripheral nerve tissue (that of the arms and legs) and result in muscular weakness and loss of sensation. Prolonged and repeated inhalation of high levels of mixed isomers of hexane resulted in kidney damage in male rats. The effects observed are the same as those seen in male rats exposed to other hydrocarbons. The mechanism by which these chemicals cause the characteristic kidney toxicity is unique to the male rat and the kidney effects are not expected to occur in man,. Over exposure to this material (or its components) has been suggested as cause of the following effects in laboratory animals: mild, reversible liver effects testis damage, lung damage, Overexposure to this material (or its components) has suggested as a cause of the following effects: visual impairment, central nervous system effects.

4. First Aid Measures

Eye Contact:

Flush with warm water for 15 minutes. Seek medical attention.

Skin Contact:

Wash with soap and water. Remove any contaminated clothing and launder before reusing. If irritation persists, seek medical attention.

Inhalation:

Remove exposed individual to fresh air, protecting yourself. Restore breathing if necessary. Contact a physician.

Ingestion:

Immediately give the person two large glasses of water. Do not induce vomiting. Get medical attention immediately. DO NOT GIVE AN UNCONCIOUS OR CONVULSING PERSON ANYTHING BY MOUTH!

5. Fire Fighting Measures

Flash Point: Flash point of propellant <0 degrees F.

Flammable limits in air, % by volume:

Upper: 18 % (VOL.) Gas in air (propellant portion)
Lower: 3.4 % (VOL.) Gas in air (propellant portion)

Extinguishing Media:

Dry chemical, carbon dioxide, halon, or foam is recommended. Water spray may be used to cool containers or structures. Halon may decompose into toxic materials and carbon dioxide will displace oxygen, take proper precautions when using these materials.

Unusual Fire & Explosion Hazards:

This material may be ignited by extreme heat, sparks, flames or other ignition sources (static electricity). Vapors are heavier than air and will collect in low areas (sewers) or travel considerable distances. If containers are not cooled in a fire, they may rupture and ignite.

Special Fire Fighting Procedures:

At elevated temperatures (over 130F) aerosol container may burst, vent or rupture; use equipment or shielding to protect personnel. Cooling exposed containers with streams of water may be helpful. Emergency responders should wear self-contained breathing apparatus. Wear other protective gear as conditions warrant. Keep unauthorized people out and try to contain spills or leaks if it can be done safely. Material will float on water, avoid spreading the fire.

6. Accidental Release Measures

Spill or Leak Instructions

Contain spill with dikes of soil or nonflammable absorbent to minimize contaminated area. Avoid run-off into storm sewers and ditches leading to waterways. If required, notify state and local authorities. Place leaking containers in well-ventilated area. Clean up small spills by using a nonflammable absorbent or flushing sparingly with water. Contain larger spills with nonflammable diking or absorbent. Clean up by vacuuming or sweeping.

Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind; keep out of low areas. Assess the spill situation, as the spill may not evolve large amounts of hazardous airborne contaminants in many outdoor spill situations. It may be advisable in some cases to simply monitor the situation until spilled product is removed.

7. Handling and Storage

Handling:

Store below 120°F in cool, dry area, out of direct sunlight and away from strong oxidizers. Do not puncture or burst. Use in accordance with good work place practices. Use with adequate ventilation. Keep containers closed when not in use. Always open containers slowly to allow any excess pressure to vent. Avoid breathing vapor. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling. Decontaminate soiled clothing thoroughly before re-use. Destroy contaminated leather clothing.

Empty containers may contain residues from the product. Treat empty containers with the same precautions as the material last contained. Do not cut, weld or apply heat to empty containers Do not incinerate

Storage:

Store in a cool, dry area, away form heat or direct sunlight. Keep containers closed when not in use. Do not store with incompatible materials

8. Exposure Controls / Personal Protection

Protective Equipment:

Use synthetic gloves if necessary to prevent excessive skin contact. Do not wear contacts and always use ANSI approved safety glasses or splash shield.

Engineering Controls:

General or dilution ventilation is frequently sufficient as the sole means of controlling employee exposure. Local ventilation is usually preferred. Use a NIOSH approved respirator if ventilation is not adequate to maintain exposures below TLV levels.

Respiratory Protection:

Use adequate ventilation to maintain exposure limits. If the exposure limits of the products or any of its components is exceeded, an approved organic vapor mask should be used (consult your safety equipment supplier). Above 1000 ppm, an approved self-contained breathing apparatus or airline respirator with full face-piece is required

Other Suggested Equipment:

Eye wash station and emergency showers should be available. Spill containment equipment should be available.

Discretion Advised:

IMS takes no responsibility for determining what measures are required for personal protection in any specific application. The general information should be used with discretion.

Exposure guidelines:

Ingredients	CAS #	Percent	Exposure Limits
1,1,-Difluoroethane (HFC-152a)	75-37-6	25-45 %	1000 ppm 8 hour TWA (1)
Dimethyl Ether	115-10-6	25-45 %	1000 ppm 8 hour TWA (1)
Methyl-2-Pentane	107-83-5	10-22 %	OSHA (TWA) 500 ppm ACGIH (TWA) 500 ppm
Methyl-3-Pentane	96-14-0	3-9 %	OSHA (TWA) 500 ppm ACGIH (TWA) 500 ppm
Dimethyl-2,3-Butane	79-29-8	3-9 %	OSHA (TWA) 500 ppm ACGIH (TWA) 500 ppm
Dimethyl-2,2-Butane	75-83-2	2-7 %	OSHA (TWA) 500 ppm ACGIH (TWA) 500 ppm
N-Heptane	110-54-3	.5-2 %	OSHA (TWA) 500 ppm ACGIH (TWA) 50 ppm
Licethin	8029-76-3	.05-10	NE

(1) Supplier Acceptable Exposure Limit.

9. Physical and Chemical Properties

Boiling Point: NA

Vapor Density: >1(Air=1)

Odor/Appearance: Clear mist as dispensed from aerosol can.

Evaporation Rate: Ether = 1 Slower

Specific Gravity: <1

Water Solubility: Negligible

10. Stability and Reactivity

Class 2.1, ERG 126

AIR (IATA)
Aerosols (limited quantity),
Class 2.1, ERG 126, UN No. 1950
Vessel
Aerosol (Limited Quantity), Class 2.1, UN No 1950

15. Regulatory Information

Environmental Regulations

SARA 302/304:

None

SARA 311/312:

Immediate (x) Delayed (x) Fire (x) Reactive () Sudden Release of Pressure (x)

Section 313

n-hexane	110-54-3	1-1.5%
----------	----------	--------

California Prop. 65:

WARNING: This product contains a chemical known in the State of California to cause cancer. BENZENE

WARNING: this product contains a chemical known in the State of California to Cause birth defects or other reproductive harm: BENZENE

All the chemicals used in this product are TSCA listed.
Check with your local regulators to be sure all local regulations are met.

16. Other Information

Hazard ratings This information is intended solely for the use of individuals trained in the NFPA and/or HMIS systems.

NFPA: Level 2 Aerosol

HMIS: Health: 2 Flammability: 4 Reactivity: 0

RATING: 4-EXTREME 3-HIGH 2-MODERATE 1-SLIGHT 0-INSIGNIFICANT

Note:

For industrial use only. The information contained herein is accurate to the best of our knowledge. We do not suggest or guarantee that any hazards listed herein are the only ones which exist. IMS makes no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances. Effects can be aggravated by other materials and/or this material may aggravate or add to the effects of other materials. This material may be released from gas, liquid, or solid materials made directly or indirectly from it. User has the sole responsibility to determine the suitability of the materials for any use and the manner of use contemplated. User must meet all applicable safety and health standards. Possession of an MSDS does not indicate that the possessor of the MSDS was a purchaser or user of the subject product.