PHILADEPHIA RESINS MOLD RELEASE

This product appears in the following stock number(s):
70685

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Tradename: PHILADEPHIA RESINS MOLD RELEASE
General use: Release agent and anti-stick lubricant for epoxy resins
Chemical family: Mold release

MANUFACTURER
ITW Philadelphia Resins
130 Commerce Dr.
Montgomeryville, PA 18936

EMERGENCY INFORMATION
Emergency telephone number
(CHEMTREC): (800) 424-9300
Other Calls: (215) 855-8450

2. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS CONSTITUENTS **Exposure limits**

Constituent	Abbr.	CAS No.	Weight percent	ACGIH TLV	OSHA PEL	Other Limits
Halogenated hydrocarbon / Ether blend		*	100	n/e	n/e	1000 ppm (Manufacturer)

"TLV" means the Threshold Limit Value exposure (eight-hour, time-weighted average, unless otherwise noted) established by the American Conference of Governmental Industrial Hygienists. "STEL" indicates a short-term exposure limit. "PEL" indicates the OSHA Permissible Exposure Limit."n/e" indicates that no exposure limit has been established. An asterisk (*) indicates a substance whose identity is a trade secret of our supplier and unknown to us.

3. HAZARDS IDENTIFICATION

Emergency Overview

Appearance, form, odor: clear, colorless aerosol can with slight ethereal odor.

CAUTION! Eye irritant, skin and respiratory irritant. May cause central nervous system effects.

Potential health effects

Primary routes of exposure: ☒ Skin contact ☐ Skin absorption ☒ Eye contact ☒ Inhalation ☐ Ingestion

Symptoms of acute overexposure:

Skin: Skin contact with the liquid may cause freezing of the skin or irritation.
Eyes: Eye contact with liquid or vapor may cause irritation.

Inhalation:

Overexposure by inhalation of vapors may cause respiratory irritation or nonspecific discomfort such as nausea, headache or weakness. Inhalation of concentrations above the recommended limits may cause temporary central nervous system depression with anesthetic effects such as dizziness, headache, incoordination, loss of consciousness or cardiac arrhythmia. Gross overexposure may be fatal. Repeated inhalation of respirable aerosols of this lubricant may cause serious toxic effects in the lungs, based on animal studies.

Ingestion:

Ingestion is not considered a potential route of exposure.

Effects of chronic overexposure:

This product contains a material that releases small quantities of methyl alcohol upon hydrolysis. Methyl alcohol causes optic neuropathy, metabolic acidosis, and respiratory depression. Signs and symptoms of ovrexposure include headache, blurred vision, constricted visual fields, shortness of breath, dizziness and vertigo. Ingestion of methyl alcohol may lead to blindness or death. This product contains a material which can generate formaldehyde vapors when exposed to temperatures exceeding 302F (150 C) in the presence of air. Formaldehyde is a potential cancer hazard, causes irritation and sensitization of the skin and respiratory system, causes eye and throat irritation, and is acutely toxic. Safe conditions of use can be ensured by monitoring and controlling vapor concentraions in accordance with 29 CFR 1910.1048.

Carcinogenicity -- OSHA regulated: No **ACGIH: No** **National Toxicology Program: No**

International Agency for Research on Cancer: No

Cancer-suspect constituent(s) : None

Medical conditions which may be aggravated by exposure:

Existing eye, skin and respiratory disorders and preexisting diseases of the central nervous system or cardiovascular system.

Other effects:

No data available.

4. FIRST AID MEASURES

First aid for eyes:

Flush with water for 15 minutes. Obtain medical attention.

First aid for skin:

Wash thoroughly with soap and water.

First aid for inhalation:

Remove to fresh air. If breathing has stopped, give artificial respiration, then oxygen if needed. Obtain immediate medical attention.

First aid for ingestion:

Obtain immediate medical attention. Do not induce vomiting unless instructed by a physician.

Note to physician :

Because of possible disturbances of cardiac rhythm, catecholamine drugs, such as epinephrine, should be used only in situations of emergency life support.

5. FIRE FIGHTING MEASURES

General fire and explosion characteristics:

Non-flammable aerosol as determined by ASTM D 3065-94. However, this product contains components which may be ignited under certain circumstances. Do not use near sparks or open flames.

Extinguishing media:

☒ Water ☒ Carbon dioxide ☒ Dry chemical ☒ Foam ☐ Alcohol foam

Flash Point (°F): n/d **Method:**

Explosive limits in air (percent) -- **Lower:** n/d **Upper:** n/d

Special firefighting procedures:

Wear self-contained breathing apparatus and protective clothing. Cool fire exposed containers with water.

Unusual fire and explosion hazards:

Vapors confined in a poorly ventilated area may be ignited by a spark or a flame. Vapors may travel considerable distances to a source of ignition. Vapors are heavier than air and may accumulate in low areas. Containers may rupture or explode under fire conditions. Material can accumulate static charges which can cause an incendiary electrical discharge.

Hazardous products of combustion:

Halogens, halogen acids, and possibly carbonyl halides such as phosgene.

6. ACCIDENTAL RELEASE MEASURES

Spill control:

For large spills, ventilate area. Wear the appropriate personal protective equipment. Avoid breathing vapors. Evacuate area until vapor has dispersed. Remove all sources of ignition. Stop or reduce discharge if it can be done safely.

Containment:

Use suitable absorbant material.

Cleanup:

Remove product and contain for salvage or disposal.

Special procedures:

Prevent spill from entering drainage/sewer systems, waterways, and surface waters.

7. HANDLING AND STORAGE

Handling precautions:

Minimize breathing of vapors and avoid prolonged or repeated contact with skin. Wear proper protective equipment. If ventilation is not sufficient, wear proper respiratory equipment. Do not use near ignition sources. Contents under pressure, do not puncture or incinerate. Do not remove or deface label.

Storage:

Contents under pressure, avoid heat. Store in a cool, dry well-ventilated location, away from heat. Empty container may contain residues which are hazardous. Do not store at temperatures above 120 deg. F.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls

Ventilation :

Use ventilation that is adequate to keep employee exposure to airborne concentrations below exposure limits (or to the lowest feasible levels when limits have not been established). General area ventilation is usually adequate; in confined areas or for high-volume uses of the mold release, local exhaust is recommended. Mechanical ventilation should be used in confined spaces and low areas.

Other engineering controls :

Have emergency shower and eye wash available.

Personal protective equipment

Eye and face protection:
Safety glasses with side shields.

Skin protection:
Long sleeves and other protective clothing as required to prevent skin contact. Chemically resistant gloves are recommended if there is any potential for prolonged or repeated liquid contact with the skin.

Respiratory protection:
The use of an approved dust, fume and mist respirator designed for exposure limits less than .05 mg/m3 is recommended. A NIOSH-approved organic acid vapor respirator may be required in poorly ventilated areas. A supplied air respirator should be used if ventilation is not sufficient to maintain exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Specific gravity:	.86	**Boiling point (°F):**	n/d
Melting point (°F):	n/d	**Vapor density (air = 1):**	>1
Vapor pressure (mmHg):	60 psig at 70 °F	**Evaporation rate (butyl acetate = 1):**	>1
VOC (grams/liter):	n/d	**Solubility in water:**	insoluble
Percent volatile by volume:	n/d	**pH (5% solution or slurry in water):**	n/d
Percent solids by weight:	n/d		

10. STABILITY AND REACTIVITY

This material is chemically stable. Hazardous polymerization will not occur.

Conditions to avoid :
Ignition sources such as open flames, sparks, static discharges or glowing metal surfaces. Freshly abraded aluminum surfaces.

Incompatible materials:
Chemically active metals: calcium, powdered aluminum, zinc, sodium, potassium, magnesium etc. Oxidizers, carbon monoxide, acetic acid, organic acid anhydrides.

Hazardous products of decomposition:
Burning can produce the following combustion products: halogens, halogen acids, and possibly carbonyl halides such as phosgene.

Conditions under which hazardous polymerization may occur:
Not applicable.

11. TOXICOLOGICAL INFORMATION

Acute oral effects: LD50 (rat): No data available.

Acute dermal effects: LD50 (rabbit): No data available.

Acute inhalation effects: LC50 (rat): No data available. Exposure: hours.

Eye irritation:
No data available.

Subchronic effects:
No data available.

Carcinogenicity, teratogenicity, and mutagenicity:
No data available.

Other chronic effects:
No data available.

Toxicological information on hazardous chemical constituents of this product:

Constituent	Oral LD50 (rat)	Dermal LD50 (rabbit)	Inhalation LC50 4hr, (rat)
Halogenated hydrocarbon / Ether blend	n/d	n/d	n/d

'n/d' = 'not determined'

12 ECOLOGICAL INFORMATION

Ecotoxicity:
No data available.

Mobility and persistence:
No data available

Environmental fate:
No data available.

13. DISPOSAL CONSIDERATIONS

Please see also Section 15, Regulatory Information.

Waste management recommendations:
Dispose of in accordance with local, state, and federal requirements. "Empty" containers retain product residue and can be dangerous.

14. TRANSPORT INFORMATION

Proper shipping name: Aerosols *****
Technical name : N/A
Hazard class : 2.2
UN number: 1950
Packing group: N/A
Emergency Response Guide no.: 126
IMDG page number: N/A
Other:

*Depending upon the size and type of container, this material may be reclassified as "Consumer Commodity, ORM-D" for shipments within the United States, or "Limited Quantity" elsewhere. Refer to the appropriate regulation.

15. REGULATORY INFORMATION

U.S. Federal Regulations

TSCA
All ingredients of this product are listed, or are exempt from listing, on the TSCA inventory.

The following RCRA code(s) applies to this material if it becomes waste:
None

Regulatory status of hazardous chemical constituents of this product:

Constituent	Extremely Hazardous*	Toxic Chemical**	CERCLA RQ (lbs)	TSCA 12B Export Notification
Halogenated hydrocarbon / Ether blend	No	No	0.0	Not required

*Consult the appropriate regulations for emergency planning and release reporting requirements for substances on the SARA Section 301 Extremely Hazardous Substance list.

**Substances for which the "Toxic Chemical" column is marked "Yes" are on the SARA Section 313 list of Toxic Chemicals, for which release reporting may be required. For specific requirements, consult the appropriate regulations.

For purposes of SARA Section 312 hazardous materials inventory reporting, the following hazard classes apply to this material: - Immediate health hazard -- Delayed health hazard -- Sudden release of pressure hazard -

Canadian regulations

WHMIS hazard class(es) : A

16. OTHER INFORMATION

Hazardous Materials Identification System (HMIS) ratings:	Health	Flammability	Reactivity
	2*	0	0

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