

FoundryGeneral® Mold Release 007H --

Section 1. Supplier Information



FoundryGeneral® c/o General Chemical Corp.

12336 Emerson Drive
www.foundrychem.com
Brighton, MI 48116
(248) 587-5600

Emergency Telephone: 1-800-424-9300

Section 2. Hazardous Ingredients

<u>Hazardous Component(s)</u>	<u>CAS #</u>	<u>PEL TWA</u>	<u>PEL Ceiling</u>	<u>TLV TWA</u>	<u>TLV STEL</u>	<u>MFG Limits</u>	<u>WGT %</u>
Heptane	142-82-5	500 ppm	N/E	400 ppm	500 ppm	N/E	60 - 65
Propane	74-98-6	1000 pp	N/E	1000 ppm	N/E	N/E	10 - 15
Butane	106-97-8	N/E	N/E	1000 ppm	N/E	N/E	10 - 15
2-Propanol	67-63-0	400 ppm	N/E	400 ppm	500 ppm	400 ppm	5 - 10
Acetone	67-64-1	1000 pp	N/E	500 ppm	750 ppm	N/E	5 - 10

N/A = Not Applicable; N/E = Not Established; * = Mists; # = Skin; ' = Respirable Dust; " = Total Dust; ^ = Vapor; ** = Fumes; C = Ceiling Limit

All components of this product are listed on the Toxic Substances Control Act (TSCA) Inventory and the Canadian Domestic Substances List (DSL), or are exempt from the listing.

Section 3. Hazards Identification

Primary Routes of Entry

Inhalation: YES
Skin: YES
Ingestion: NO

Hazardous Materials Information System (HMIS) Ratings

Health:	3	0 = Minimal
Fire:	4	1 = Slight
Reactivity:	1	2 = Moderate
		3 = Serious
		4 = Severe
		* = Chronic Hazard

Signs of Symptoms of Exposure:

INHALATION: Overexposure to vapor or mist may cause dizziness, loss of concentration, and irritation. With high exposure levels, effects can include central nervous system (CNS) depression (intoxication) and cardiac arrhythmia. Product vapors displace air and can cause suffocation, especially in a confined space.

SKIN: Prolonged or repeated skin contact can cause redness, swelling, cracking.

EYES: Liquid and vapor contact produces irritation.

INGESTION: See symptoms for inhalation. Discomfort due to volatility would be expected.

FoundryGeneral® Mold Release 007H --

Chemical Listed as Potential Carcinogens:

NTP: NO

IARC: NO

OSHA: NO

Target Organs: Eyes, skin, respiratory system and nervous system.

Section 4. Emergency And First Aid Procedures

INHALATION: If adverse effects such as dizziness, nausea, or irritation are noted, move person to fresh air. If not breathing, give artificial respiration. Get medical attention!

SKIN: Immediately wash skin with large amounts of soap and water. Remove contaminated clothing and shoes; wash before reuse. Get medical attention if irritation persists after washing.

EYES: Flush eyes immediately with water for at least 15 minutes. If irritation persists, call a physician.

INGESTION: DO NOT INDUCE VOMITING! Contact a physician immediately!

Section 5. Fire Fighting Measures

Flash Point: < 0 °F (propellant)

Method Used: Closed Cup

Flammable Limits in Air % by Volume: LEL: 1.8

UEL: 9.5; for propellant.

Extinguisher Media: Carbon dioxide, dry chemical, or foam.

Special Fire Fighting Procedures: Water spray may be ineffective in fighting fires, but may be used to cool closed containers. Full protective equipment including self-contained breathing apparatus should be used.

Unusual Fire And Explosion Hazards: Closed containers may explode due to pressure build up when exposed to extreme heat.

Section 6. Accidental Release Measures

If material is spilled, eliminate all ignition sources. Keep people away. Recover free product. Add sand, earth or other suitable absorbent to spill area; place in closed containers for disposal. Ventilate confined spaces. Keep product out of sewers and watercourses by diking or impounding. Advise authorities if product has entered or may enter sewers, watercourses, or extensive land areas. Continue to observe precautions for volatile, combustible vapors from absorbed material.

CERCLA (Superfund) Reportable Quantity (in lbs Acetone, 5000 lbs)

Section 7. Handling and Storage

Handling: Avoid contact with skin and eyes; wash thoroughly after handling. Avoid breathing vapor; use with adequate ventilation.

Storage: Store in a dry location at room temperature. Keep container closed and maintain all original markings and labels. Keep this container and vapors from this container away from heat, sparks, flame, and other ignition sources.

Other: Do not store above 100 °F. CAUTION! Do not use cutting or welding torches on containers, even when empty. Containers, even those that have been emptied, will retain product residue and vapors. Do not reuse container without recycling or reconditioning. Handle empty containers as if they were full.

Section 8. Exposure Controls and Personal Protection

Respiratory Protection: Use NIOSH / MSHA approved respirator where high vapor or mist concentrations are present.

Local Exhaust: None normally required. Local exhaust may be needed under special

FoundryGeneral® Mold Release 007H --

circumstances such as poorly ventilated areas, evaporation from large surfaces, spraying, heating, etc.

Mechanical Exhaust: Mechanical ventilation should be sufficient to maintain exposure levels below exposure limits.

Protective Gloves: Wear chemical resistant gloves.

Eye Protection: At a minimum, wear safety glasses with side shields.

Other Protection: Eye wash should be available. Wear coveralls to protect clothing from spatters.

Hygienic Practices: Avoid contact with skin and avoid breathing vapors or mist. Do not eat, drink, or smoke while using this product. Wash up prior to eating, drinking, or using the restroom.

Section 9. Physical and Chemical Properties

Boiling Point:	< 0 °F (propellant)	Degree of water solubility:
Specific Gravity (H ₂ O=1):	< 1.0	Negligible = Less than 0.1%
Vapor Pressure (mm Hg):	No data.	Slight = 0.1% - 1%
Vapor Density (air=1)	> 1.0	Moderate = 1% - 10%
Solubility in Water:	N/A	Appreciable = More than 10%
Reactivity in Water:	None.	Complete = 100%
Weight per Gallon (lb/gal):	N/E	
% Volatile by Volume:	96-98%	
% Solid by Weight:	2-4%	
Appearance and Odor:	Clear, colorless liquid with a solvent odor.	
Theoretical VOC: (>0.1 mm Hg @ 20 ° C)	N/E	
Analytical VOC : (EPA method 24)	N/E	
pH:	N/E	

Section 10. Stability and Reactivity

Stability: Stable. Hazard Polymerization: Will not occur.

Conditions to Avoid: Heat, sparks, or open flame.

Incompatibility (Materials to Avoid): Strong oxidizing materials.

Hazardous Decomposition Products: Oxides of carbon.

Section 11. Toxicological Information

FoundryGeneral® Mold Release 007H --

2-Propanol [CASRN 000067-63-0]

ACUTE TOXICITY

Oral LD50 (mouse) = 3600 mg/kg Eye irritation (Draize - rabbit) 100 mg (moderate)
Oral LD50 (rat) = 5045 mg/kg Dermal irritation (Draize - rabbit) 500 mg (mild)
Oral LD50 (rabbit) = 6410 mg/kg
Dermal LD50 (rabbit) = 12800 mg/kg [5,8-C,15-012800]

Acetone [CASRN 000067-64-1]

ACUTE TOXICITY Oral LD50 (rat) = 5.8 g/kg Eye Irritation: Severe [Rabbit]
Dermal LD50 (rabbit) > 15.7 g/kg Dermal Irritation: Mild [Rabbit]
Inhalation LC50 (rat) > 16,000 ppm, 4 hrs

Reproductive and Developmental Toxicity: In pregnant animals exposed to high concentrations of acetone, there were no birth defects, but some evidence of embryofetal toxicity (deceased pup weight, increased late resorptions).

Other Testing: In animal studies, repeated oral dosing of large amounts of acetone was reported to cause adverse effects in the hematological system, liver, kidney and testis. In animals, acetone administration can potentiate the toxicity of a variety of chemical toxicants, which is believed to be secondary to induction of liver enzymes. [18,7-0-082200]

Section 12. Ecological Information

2-Propanol [CASRN 000067-63-0]

ECOTOXICITY

LC50 (fathead minnow) = 11,830 mg/l, 1 hr, static bioassay
LC50 (goldfish) = 5,000 mg/L, 24 hr, modified ASTM D1345 bioassay

FATE 2-Propanol is not expected to adsorb to sediment or bioconcentrate in fish. In the atmosphere, it will photodegrade primarily by the reaction with hydroxyl radicals with a half-life of one to several days. Due to its solubility in water, rainout may be significant. 2-Propanol is expected to evaporate quickly from the soil surface and leach into the ground. It is predicted to volatilize in aquatic environments with a half-life of 5.4 days and may biodegrade. [5,8-C,15-012800]

FoundryGeneral® Mold Release 007H --

Acetone [CASRN 000067-64-1]

ECOTOXICITY

96 hr-LC50 (fathead minnow) = 9300 mg/l	16 hr-IC50 (bacteria) > 5000 mg/l
LC50 (fathead minnow) = 7,160 mg/L	LC50 (ceriodaphnia dubia) = 8,098 mg/L
LC50 (rainbow trout) = 6,100 mg/L	LC50 (brook trout) = 6,070 mg/L
LC50 (goldfish) = 5,000 mg/L	LC50 (ambystoma) = 20,000 mg/L
LC50 (bluegill) = 8,300 mg/L	LC50 (xenopus laevis) = 24,000 mg/L
LC50 (daphnia magna) = 9,218 mg/L	EC50 (Lemna sp.) = 10,677 - 15,233 mg/L
EC50 (daphnia magna) = 6,084 mg/L	EC50 (skeletonema costatum) = 11,800 - 14,400 mg/L

ENVIRONMENTAL FATE

BOD05 56 % Theoretical Oxygen Demand (ThOD) - 2.00 mg/mg, measured
BOD10 76 % Theoretical Oxygen Demand (ThOD) - 2.20 mg/mg, calculated
BOD20 84 % Octanol/Water partition coefficient : -0.24, measured
BCF (fish) = 0.69 Organic Carbon partition coefficient: 0.37
Air/water partition coefficient : 0.15E-2 Henry's constant = 3.6E-5 atm-m³/mol (est.)
5-Day biochemical oxygen demand (BOD5) is 1.52 p/p.
10-Day biochemical oxygen demand (BOD10) is 1.60 p/p.
20-Day biochemical oxygen demand (BOD20) is 1.62 p/p.

Material is readily biodegradable. Passes OECD test(s) for ready biodegradability. The atmospheric half-life is 22 days. Bioconcentration potential is low (BCF) less than 100 or Log Pow less than 3). Potential for mobility in soil is very high (Koc between 0 and 50). Biodegradation under aerobic static laboratory conditions is high (BOD20 or BOD28/ThOD greater than 40%). Inhibitory concentration (IC50) in OECD Activated Sludge Respiration Inhibition Test (OECD Test No. 209) is greater than 1000 mg/L. [20,2-0-071000], [3-0,18-072299]

Section 13. Disposal Considerations

Waste Disposal Methods (Federal, State, Local):

In accordance with all federal, state and local requirements.

RCRA Hazardous Waste Number: N/A

Section 14. Transport Information

Hazardous Material Description:

(Proper shipping name, hazard class, hazard ID#, packing group)

Domestic ground non-bulk: CONSUMER COMMODITY, ORM-D

Domestic ground bulk: UN1950, AEROSOLS, FLAMMABLE, 2.1

International: UN1950, AEROSOLS, FLAMMABLE, 2.1

Section 15. Regulatory Information

SARA 313 Information

'This product contains the following chemical(s) above deminis concentrations and may be subject to reporting under section 313:

N/A

Section 16. Other Information

This MSDS contains revisions in the following sections: New product

Prepared by: General Chemical

Revised by:

Orig 8/19/2009
Rev:

MATERIAL SAFETY DATA SHEET

Page 6 of 6

FoundryGeneral® Mold Release 007H --

The development of this Material Safety Data Sheet (MSDS) relies upon information provided to us by each of our raw material suppliers. This MSDS will be updated as changes occur to their MSDS(s). We believe the recommendations and technical information contained herein to be accurate. However, they are given without warranty or guarantee, expressed or implied, and we assume no responsibility for losses or damage, direct or indirect, as a result of their use.