# **CURRENT FORMULA - FLAMMABLE**

(with n-Propyl bromide)

# SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

# **SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

**Product identifier** 

Chemical Name Mixture
CAS No. Mixture

Trade Name PERMASIL MOLD RELEASE 909C

Product Code M-5335

Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s) Mold Releasing Agent

Uses Advised Against None

Company Identification M.J. Gordon Co., Inc.

255 North Street, Suite 2

P.O. Box 4441

Pittsfield, MA 01202-4441

Telephone (413) 448-6066 Fax (413) 448-2932

E-Mail (competent person) <u>allangordon@mjgordonco.com</u>

Emergency telephone number CHEMTREC Account Number: CCN14819

Emergency Phone No. Transportation Emergency:

CHEMTREC 24 hr. – Within USA 1(800) 424-9300 Outside USA 1 (703)527-3887 (Collect calls accepted)

### **SECTION 2: HAZARDS IDENTIFICATION**

#### Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200)

Flam. Aerosol 2; Liquefied gas; Skin Irrit. 2; Eye Irrit. 2; Repr. 1B ; STOT SE 3;

STOT RE 2



Hazard Symbol



Signal word(s)

Hazard Statement(s) Flammable aerosol.

Contains gas under pressure; may explode if heated.

May damage fertility or the unborn child.

May cause damage to organs through prolonged or repeated exposure: Liver,

Central nervous system.

Causes skin irritation.

Causes serious eye irritation.

May cause drowsiness or dizziness.

May cause respiratory irritation.

Precautionary Statement(s)

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

Do not spray on an open flame or other ignition source.

Do not pierce or burn, even after use. Avoid breathing mist/vapours/spray.

Wear protective gloves/protective clothing/eye protection/face protection.

Wash hands and exposed skin after use.

Use only outdoors or in a well-ventilated area.

Protect from sunlight. Do no expose to temperatures exceeding 50°C/ 122°F.

Other hazards

Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

### **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Hazardous Ingredient(s)	% wt.	CAS No.	Hazard classification
	40 - 45	106-94-5	Flam. Liq. 2; H225
			Skin Irrit. 2; H315
			Eye Irrit. 2; H319
1-Bromopropane			Repr. 1B: H360
1-віотюрюране	40 - 43	100-94-3	STOT SE 3: H335, H336
			STOT RE 2: H373
			Aquatic Acute 3; H402
			Aquatic Chronic 3; H412
			Flam. Liq. 3; H226
			Eye Irrit. 2; H320
Xylene	< 10	1330-20-7	Skin Irrit. 2; H315
			Asp. Tox. 1; H304
			STOT SE 3; H335
1,1,1,2-Tetrafluoroethane	30 - 40	811-97-2	Liquified Gas; H280
.,.,.,=	00 .0	011 07 2	Simple Asphyxiant
Dimethyl ether	10 - 20	115-10-6	Flam. Gas 1; H220
Billiothyl carel	10 20	110-10-0	Liquefied gas; H280
			Flam. Liq. 2: H225
n-Propanol	<2	71-23-8	Eye Dam. 1:H318
			STOT SE 3: H336
1,2-Butylene oxide		106-88-7	Flam. Liq. 2: H225
	<0.5		Acute Tox. 4: H302, H312, H332
	<0.5		Eye Irrit. 2A; H319
			STOT SE 3: H335
	<0.5		Flam. Liq. 2: H225
t-Butyl alcohol		75-65-0	Acute Tox. 4: H332
t-butyi alconoi			Eye Irrit. 2; H319
			STOT SE 3: H335, H336

**Additional Information –** Substances in the product which may present a health or environmental hazard, or which have been assigned occupational exposure limits, are detailed below.:

## **SECTION 4: FIRST AID MEASURES**



Description of first aid measures

Inhalation

If inhaled: Remove person to fresh air and keep comfortable for breathing. If breathing is labored, administer oxygen. If symptoms develop, obtain medical attention.

<sup>-</sup> Ethylbenzene (CAS No. 100-41-4)

Skin Contact Wash affected skin with soap and water. If irritation (redness, rash,

blistering) develops, get medical attention. Take off contaminated

clothing and wash it before reuse.

Eye Contact Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. If eye irritation

persists: Get medical advice/attention.

Ingestion Do not induce vomiting. Do not give anything by mouth to an

unconscious person.

Most important symptoms and effects, both acute and

delayed

May cause drowsiness or dizziness.

Indication of any immediate medical attention and

special treatment needed

IF SWALLOWED: Immediately call a POISON CENTER or

doctor/physician.

### **SECTION 5: FIRE-FIGHTING MEASURES**

#### **Extinguishing Media**

-Suitable Extinguishing Media Extinguish with carbon dioxide, dry chemical, foam or water spray.

-Unsuitable Extinguishing Media Do not use water jet.

Special hazards arising from the substance or

mixture

None

Advice for fire-fighters A self contained breathing apparatus and suitable protective clothing should

be worn in fire conditions. Keep containers cool by spraying with water if

exposed to fire.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and

emergency procedures

Eliminate sources of ignition. Avoid contact with skin and eyes. Avoid

breathing spray. Wear protective gloves/eye protection.

Environmental precautions Prevent liquid entering sewers, basements and work pits. Avoid release to

the environment.

Methods and material for containment and

cleaning up

Cover spills with inert absorbent material. Transfer to a container for disposal

or recovery.

Reference to other sections None Additional Information None

## **SECTION 7: HANDLING AND STORAGE**

Precautions for safe handling Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking. Use product in a well-ventilated area only. Avoid contact with skin and eyes. Avoid breathing spray. Wear protective

gloves/eye protection.

Conditions for safe storage, including any incompatibilities

-Storage temperature Store in a well-ventilated place. Protect from sunlight. Do not expose to

temperatures exceeding 50°C/122°F. Keep container tightly closed. Store

locked up.

-Incompatible materials This product should be stored away from sources of strong heat , oxidizing

agents, reducing agents, and strong acids. Do not mix with finely divided alkali or alkaline earth metals. May attack some plastics, rubbers, and

coatings.

Specific end use(s) Mold Releasing Agent

### **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Occupational Exposure Limits**

		(8hr TWA)		(STEL)		
SUBSTANCE.	CAS No.	PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	Note:
1-Bromopropane	106-94-5		0.1 ppm			
Xylene	1330-20-7	100 ppm	100 ppm		150 ppm	
Ethylbenzene	100-41-4	100 ppm	20 ppm			
t-Butyl alcohol	75-65-0	100 ppm	100 ppm			
n-Propanol	71-23-8	200 ppm	100 ppm			

<sup>\*</sup>Assure minimum oxygen content of work atmosphere.

Recommended monitoring method

NIOSH 1025 (Bromopropane); NIOSH 1401 (Alcohols II); NIOSH 1501

(Hydrocarbons, Aromatic)

**Exposure controls** 

Appropriate engineering controls

Use only with adequate ventilation to keep exposures (airborne levels of dust, fume, vapour etc) below recommended exposure limits.

Personal protection equipment

Eve/face protection

Wear protective eyewear (goggles, face shield, or safety glasses).



Skin protection (Hand protection/ Other)



Wear suitable gloves if prolonged skin contact is likely. Check with

protective equipment manufacturer's data.

Respiratory protection



Normally no personal respiratory protection is necessary. In case of insufficient ventilation, wear suitable respiratory equipment. Check with

protective equipment manufacturer's data.

Thermal hazards Not normally required. Use gloves with insulation for thermal protection,

when needed.

**Environmental Exposure Controls** Avoid release to the environment.

### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Information on basic physical and chemical properties

Appearance Color. Odor

Odor Threshold (ppm) pH (Value)

Melting Point (°C) / Freezing Point (°C) Boiling point/boiling range (°C):

Flash Point (°C) **Evaporation Rate** Flammability (solid, gas) **Explosive Limit Ranges** Vapor pressure (Pascal) Vapor Density (Air=1)

Aerosol spray Clear Pleasant Not available Not available Not available Not available

-41 °C (Dimethyl ether)

Not available Flammable aerosol.

3.4% - 18% v/v (Dimethyl ether) 42.7 x 10<sup>4</sup> (Dimethyl ether) 1.6 (Dimethyl ether)

Density (g/ml) Not available Solubility (Water) Not available Solubility (Other) Not available Partition Coefficient (n-Octanol/water) Not available Auto Ignition Point (°C) Not available Decomposition Temperature (°C) Not available Kinematic Viscosity (cSt) Not available Explosive properties Not explosive. Oxidizing properties Not oxidizing.

Other information None

# **SECTION 10: STABILITY AND REACTIVITY**

Reactivity Stable under normal conditions.

Chemical stability Stable.

Possibility of hazardous reactions None anticipated.

Conditions to avoid Avoid contact with heat and ignition sources.

Incompatible materials This product should be stored away from sources of strong heat,

oxidizing agents, reducing agents, and strong acids. Do not mix with finely divided alkali or alkaline earth metals. May attack some

plastics, rubbers, and coatings.

Hazardous decomposition product(s)

Carbon monoxide, Carbon dioxide, Acrid smoke, Hydrogen Bromide,

Hydrogen Flouride, Carbonyl Fluoride, Fluorinated Hydrocarbons,

Bromine.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

Exposure routes: Inhalation, Skin Contact, Eye Contact

Information on toxicological effects

1-Bromopropane (CAS No. 106-94-5):

Acute toxicity Oral LD50 >2000 mg/kg bw (rat)

Dermal LD50 >2000 mg/kg bw (rat)

Inhalation LC50 14,374 ppm (4 hour(s)) (rat)

Irritation/Corrosivity Causes skin irritation. Causes serious eye irritation.

Sensitization It is not a skin sensitizer.

Repeated dose toxicity

May cause damage to organs through prolonged or repeated

exposure: Liver, Central nervous system.

Carcinogenicity It is unlikely to present a carcinogenic hazard to man.

NTP	IARC	ACGIH	OSHA	NIOSH
No.	No.	No.	No.	No.

**Mutagenicity** Negative

Reproductive toxicity

May damage fertility or the unborn child.

Other information None known.

Xylenes (CAS No.1330-20-7)

Acute toxicity Oral LD50 = 3520 mg/kg (rat)

Dermal LD50 >5000 mg/kg (rabbit)

Inhalation LC50 = 27.6 mg/L (4 hour(s)) (rat) - Vapours may cause

drowsiness and dizziness. May cause respiratory irritation.

Irritation / Corrosivity Causes eye irritation. Causes skin irritation. Repeated exposure may

cause skin dryness or cracking.

Sensitisation It is not a skin sensitiser.

Repeated dose toxicity Oral NOAEL = 900 mg/kg/day (rat) (90-days)

Inhalation NOAEL ≥ 19,000 ppm (rat)

Carcinogenicity Not to be expected

NTP	IARC	ACGIH	OSHA
No.	No.	No.	No.

 Mutagenicity
 Not to be expected

 Toxicity for reproduction
 Not to be expected

Other information Contains: Ethylbenzene (CAS# 100-41-4). A3 - Confirmed Animal

Carcinogen (ACGIH)

1,2-Butylene oxide (CAS No. 106-88-7):

Carcinogenicity IARC Classification: Group 2B. - Possibly carcinogenic to humans.

### **SECTION 12: ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

1-Bromopropane (CAS No. 106-94-5):

Short term LC50 (96 hour): 24.3 mg/L (Fish)

EC50 (48 hour): 99.3 mg/L (Daphnia magna)

ErC50 (96 hour): 72.3 mg/L (Algae)

Long Term Not available.

Persistence and degradability

Not readily biodegradable.

Bioaccumulative potential Not available.

Mobility in soil Not available.

Results of PBT and vPvB assessment Not classified as PBT or vPvB.

Other adverse effects None known.

### **SECTION 13: DISPOSAL CONSIDERATIONS**

Waste treatment methods Disposal should be in accordance with local, state or national

legislation. Consult an accredited waste disposal contractor or the

local authority for advice.

## **SECTION 14: TRANSPORT INFORMATION**

U.S. DOT Sea transport Air transport (IMDG) (ICAO/IA)	
<b>UN number</b> 1950 1950 1950	
Proper Shipping Name         Aerosols, flammable         Aerosols, flammable         Aerosols, flammable	nmable
Transport hazard class(es) 2.1 2.1 2.1	
Packing group         Not applicable         Not applicable         Not applicable	able
<b>Environmental hazards</b> None assigned None assigned None assigned	gned
Special precautions for user None assigned None assigned None assigned	gned

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

## **SECTION 15: REGULATORY INFORMATION**

Safety, health and environmental regulations/legislation specific for the substance or mixture:

TSCA (Toxic Substance Control Act) - Inventory Status: All components listed or polymer exempt.

### Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)
Xylene	1330-20-7	5 - 10	100
Ethylbenzene	100-41-4	2 - 3	1000
1,2-Butylene oxide	106-88-7	<0.5	100

### SARA 311/312 - Hazard Categories:

### SARA 313 - Toxic Chemicals (40 CFR 372):

Chemical Name	CAS No.	Typical %wt.
Xylene	1330-20-7	5 - 10
Ethylbenzene	100-41-4	2 - 3
1,2-Butylene oxide	106-88-7	<0.5
t-Butyl alcohol	75-65-0	<0.5

#### SARA 302 - Extremely Hazardous Substances (40 CFR 355):

Chemical Name	CAS No.	Typical %wt.	TPQ (pounds)
None			

#### California Proposition 65 List:

Chemical Name	CAS No.	Type of Toxicity
1-Bromopropane	106-94-5	Developmental (male, female)
Ethylbenzene	100-41-4	Cancer
Benzene	71-43-2	Cancer
Toluene	108-88-3	Cancer

### **SECTION 16: OTHER INFORMATION**

The following sections contain revisions or new statements: 1-16.

Date of preparation: July 17, 2015

Hazard Statement(s) and Risk Phrases Listed in: SECTION 2:/ SECTION 3:

#### Hazard Statement(s)

- H220: Extremely flammable gas.
- H222: Extremely flammable aerosol.
- H225: Highly flammable liquid and vapour.
- H226: Flammable liquid and vapour.
- H280: Contains gas under pressure; may explode if heated.
- H302: Harmful if swallowed.
- H304: May be fatal if swallowed and enters airways.
- H312: Harmful in contact with skin.
- H315: Causes skin irritation.
- H318: Causes serious eye damage.
- H319: Causes serious eye irritation.
- H320: Causes eye irritation.
- H331: Toxic if inhaled.
- H332: Harmful if inhaled.
- H335: May cause respiratory irritation.
- H336: May cause drowsiness or dizziness.
- H360: May damage fertility or the unborn child.
- H373: May cause damage to organs through prolonged or repeated exposure.
- H402: Harmful to aquatic life.
- H412: Harmful to aquatic life with long lasting effects.

## Training advice: None.

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