

Safety Data Sheet

Fister Mold Release

Version 1

pg. 1

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

1.1 Trade Name (as labeled):	Mold Release
Synonyms:	N/A
CAS No:	Mixture.
1.2 Product Use:	Form Release
1.3 Company Name:	Fister, Inc.
Company Address:	1150 Lyon Road
Company Address Cont:	Batavia, IL 60510
Business Phone:	(800) 339-9534
Website:	www.fisterquarries.com
1.4 Emergency Telephone Number:	Chemtrec: (800) 424-9300
Date of Current Revision:	January 30, 2020

SECTION 2 – HAZARDS IDENTIFICATION

US DOT Symbols:

Flammable



EU and GHS Symbols:

Signal Word:

Danger

2.1 EU Labeling and Classification:

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Components Contributing to Classification: Isopropanol

2.2 Label Elements:

GHS Hazard Classifications: Flammable Liquids - Category 2
Serious Eye Damage/Eye Irritation - Category 2A
Specific Target Organ Toxicity (Single Exposure) [Respiratory tract irritation] - Category 3

Hazard Statements:

Highly flammable liquid and vapor.
Causes serious eye irritation.

Precautionary Statements:

May cause respiratory irritation.
Wear protective gloves. Wear eye or face protection. Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary

Safety Data Sheet

Fister Mold Release

Version 1

pg. 2

Response Statements:

measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Wash hands thoroughly after handling.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Storage Statements:

Store locked up. Store in a well-ventilated place. Keep cool.

Disposal Statements:

Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients	WT%	CAS No.
Isopropanol	93%	67-63-0

Note: All WHMIS required information is included in appropriate sections based on the ANSI Z400.1-2010 format. This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR, EU Directives and the Japanese Industrial Standard JIS Z 7250:2000

SECTION 4 – FIRST AID MEASURES

4.1 Description of First Aid Measures:

Eye Contact:

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Skin Contact:

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Inhalation:

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical

Safety Data Sheet

Fister Mold Release

Version 1

pg. 3

Ingestion:

attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Inhalation : May cause respiratory irritation.
Ingestion : Irritating to mouth, throat and stomach.
Skin contact : No known significant effects or critical hazards.
Eye contact : Causes serious eye irritation.

Over-exposure signs/symptoms

Eye contact: Adverse symptoms may include the following:
Pain or irritation
Watering
Redness
Inhalation: Adverse symptoms may include the following:
Respiratory tract irritation
Coughing
Skin contact: No Specific Data
Ingestion: No Specific Data

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific Treatments: No specific treatment.
Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

SECTION 5 – FIRE FIGHTING MEASURES

Fire Extinguishing Materials:

Suitable extinguishing media: Use dry chemical, CO₂, water spray (fog) or foam.
Unsuitable extinguishing media: Do not use water jet.

Safety Data Sheet

Fister Mold Release

Version 1

pg. 4

Specific hazards arising from the chemical: Highly flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

Hazardous thermal decomposition products: Decomposition products may include the following materials: carbon dioxide, carbon monoxide

Special protective actions for fire-fighters: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Remark: Vapor may travel considerable distance to source of ignition and flash back. When heated to decomposition, it emits acrid smoke and fumes.

SECTION 6 – ACCIDENTAL RELEASE MEASURES (STEPS FOR SPILLS)

Personal Precautions, Protective Equipment and Emergency Procedures:

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small Spills:

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large Spills:

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section

Safety Data Sheet

Fister Mold Release

Version 1

pg. 5

13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

SECTION 7 - HANDLING AND STORAGE

Precautions for Safe Handling:

Protective measures: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities:

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Safety Data Sheet

Fister Mold Release

Version 1

pg. 6

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Ingredients	Exposure Limits
Isopropanol	ACGIH TLV (United States). TWA: 200 ppm STEL: 400 ppm OSHA PEL (United States). TWA: 400 ppm

Appropriate engineering controls:

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure controls:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures:
Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection:

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Safety Data Sheet

Fister Mold Release

Version 1

pg. 7

Skin Protection

Hand Protection:

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body Protection:

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other skin protection:

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection:

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties:

Appearance (Physical State and Color): Colorless liquid.

Odor: Alcohol-like [Slight]

Odor Threshold: No data available

pH: 7 [Neutral]

Melting/Freezing Point: -89.5°C (-129.1°F)

Boiling Point: 82.22°C (180°F)

Flash Point: Closed cup: 12°C (53.6°F). (Tagliabue.)

Evaporation Rate: 2.9 compared with Butyl acetate.

Safety Data Sheet

Fister Mold Release

Version 1

pg. 8

Flammability (Solid; Gas): Highly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge, heat and oxidizing materials. Flammable in the presence of the following materials or conditions: combustible materials. Vapor may travel considerable distance to source of ignition and flash back. When heated to decomposition, it emits acrid smoke and fumes.

Upper/Lower Flammability or Explosion Limits: Lower: 2% Upper: 12%

Vapor Pressure (mm Hg @ 20°C (68° F): 4.4 kPa (33 mm Hg) (at 20°C)

Vapor Density: 2.08 (Air = 1)

Relative Density: 0.7855 (Water = 1)

Solubility: Easily soluble in the following materials: cold water, hot water, methanol, diethyl ether. Soluble in the following materials: acetone. Partially soluble in the following materials: n-octanol.

Solubility in Water: No data available

Partition Coefficient (n-octanol/water): No data available

Auto-Ignition Temperature: 399°C (750.2°F)

Decomposition Temperature: No data available

Viscosity: No data available

9.2 Other Information: No data available

SECTION 10 – STABILITY AND REACTIVITY

10.1 Reactivity:

No specific test data related to reactivity available for this product or its ingredients.

10.2 Stability:

The product is stable.

10.3 Possibility of Hazardous Reactions:

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to Avoid:

Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.

10.5 Incompatible Substances:

Reactive or incompatible with the following materials: oxidizing materials

10.6 Hazardous Decomposition Products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11 – TOXICOLOGY INFORMATION

11.1 Information on Toxicological Effects:

Toxicity Data:

Isopropanol	LD50 Dermal	Rabbit	12800 mg/kg
	LD50 Oral	Rat	5840 mg/kg

Irritation/Corrosion: Not available

Sensitization: Not available

Mutagenicity: Not available

Carcinogenicity: Not available

Conclusion/Summary: Detected in maternal milk in human.

Classification

Product Name	OSHA	IARC	NTP
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Safety Data Sheet

Fister Mold Release

Version 1

pg. 9

Isopropanol	-	4	-
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Reproductive Toxicity: Not available

Teratogenicity: Not available

Specific target organ toxicity (single exposure):

Name	Category	Route of Exposure	Target organs
Isopropanol	Category 3	Not applicable	Respiratory tract irritation

Specific target organ toxicity (repeated exposure): Not available

Aspiration hazard: Not available

Information on the likely routes of exposure: Routes of entry anticipated: Oral.

Potential acute health effects

Eye Contact: Causes serious eye irritation

Inhalation: May cause respiratory irritation

Skin Contact: No known significant effect of critical hazards.

Ingestion: Irritating to mouth, throat and stomach.

Symptoms related to the physical, chemical and toxicological characteristics

Eye Contact: Adverse symptoms may include the following: pain or irritation, watering, redness

Inhalation: Adverse symptoms may include the following: respiratory tract irritation, coughing

Skin Contact: No specific data

Ingestion: No specific data

Delayed and immediate effects and also chronic effects from short and long term exposure

Short Term Exposure:

Potential immediate effects: Not available

Potential delayed effect: Not available

Long Term Exposure:

Potential immediate effects: Not available

Potential delayed effect: Not available

Potential chronic health effects:

General: No known significant effects or critical hazards.

Carcinogenicity: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

Developmental effects: No known significant effects or critical hazards.

Fertility effects: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available

SECTION 12 – ECOLOGICAL INFORMATION

Toxicity:

Not available

Safety Data Sheet

Fister Mold Release

Version 1

pg. 10

Persistence and Degradability:	No specific data available on this product.
Bioaccumulative Potential:	No specific data available on this product.
Mobility in Soil:	No specific data available on this product.
Results of PBT and vPvB Assessment:	No specific data available on this product.
Other Adverse Effects:	No data available

SECTION 13 – DISPOSAL CONSIDERATIONS

Disposal Methods: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14 - TRANSPORTATION INFORMATION

14.1 U.S. Department of Transportation (DOT) Shipping Regulations:

This product is classified (per 49 CFR 172.101) by the U.S. Department of Transportation, as follows.

UN Identification Number:	1219
Proper Shipping Name:	Isopropanol
Hazard Class Number and Description:	3
Packing Group:	II
DOT Label(s) Required:	Flammable
North American Emergency Response Guidebook Number:	None

14.2 Environmental Hazards:

Marine Pollutant: The components of this product are designated by the Department of Transportation to be Marine Pollutants (49 CFR 172.101, Appendix B).

14.3 Special Precaution for User:

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.4 International Air Transport Association

Shipping Information (IATA):

14.5 International Maritime Organization

Shipping Information (IMO):

This product is considered as dangerous goods.

Safety Data Sheet

Fister Mold Release

Version 1

pg. 11

UN Identification Number:	1219
Proper Shipping Name:	Isopropanol
Hazard Class Number and Description:	3
Packing Group:	II
EMS-No:	None

SECTION 15 – REGULATORY INFORMATION

U.S. Federal regulations:

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b): This material is listed or exempted.

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs): Not listed.

Clean Air Act Section 602 Class I Substances: Not listed.

Clean Air Act Section 602 Class II Substances: Not listed.

DEA List I Chemicals (Precursor Chemicals): Not listed.

DEA List II Chemicals (Essential Chemicals): Not listed.

U.S. SARA 302/304:

Composition/information on ingredients

No products were found

SARA 304 RQ: Not applicable.

US SARA 311/312:

Classification: Fire hazard, Immediate (acute) health hazard, delayed (chronic) health hazard

Canda Inventory: Not determined

International regulations:

Chemical Weapons Convention List Schedule I Chemicals: Not listed.

Chemical Weapons Convention List Schedule II Chemicals: Not listed.

Chemical Weapons Convention List Schedule III Chemicals: Not listed.

SECTION 16 – OTHER INFORMATION

Date of Printing: October 1, 2015

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of the need that information is current, applicable and suited to the circumstances of use. This safety sheet cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. The manufacturer assumes no responsibility for injury to vendee or third party person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, The manufacturer

Safety Data Sheet

Fister Mold Release

Version 1

pg. 12

assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.

END OF SDS SHEET