



# SAFETY DATA SHEET

## 1. Identification

<b>Product Identifier</b>	<b>Freeze Out</b>	
<b>Other means of identification</b>		
<b>Product code</b>	BJS-5090	
<b>Recommended use</b>	Cleaner for cold temperatures.	
<b>Recommended restrictions</b>	Professional use only. Use as directed	
<b>Manufacturer information</b>		
<b>Company name</b>	Boettcher Janitor Service & Supply	
<b>Address</b>	PO Box 371 Republic, MO 65738	
<b>Telephone</b>	(417) 732-7004	
<b>Emergency phone number</b>	PERS	(800) 633-8253
	24-hour Emergency	(800) 633-8253

## 2. Hazard(s) Identification

<b>Physical hazards</b>	Flammable Liquids	Category 3
<b>Health hazards</b>	Eye irritation	Category 2A
	Skin irritation	Category 3
	Aspiration Hazard	Category 1
<b>Environmental hazards</b>	Not classified.	
<b>OSHA defined hazards</b>	None.	
<b>Label elements</b>		



<b>Signal word</b>	<b>DANGER</b>
<b>Hazard statement</b>	Flammable liquid and vapor. Causes mild skin irritation. Causes serious eye irritation. May be fatal if swallowed and enters airways.

<b>Precautionary statement</b>	
<b>Prevention</b>	Keep away from heat/sparks/open flames/ hot surfaces. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ ventilating/ lighting/ equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/ eye protection/ face protection. Wash hands and face thoroughly after handling.
<b>Response</b>	<b>IF IN EYES:</b> 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. <b>IF ON SKIN (or hair):</b> Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. In case of fire: Use dry sand, dry chemical, or alcohol-resistant foam for extinction. <b>IF SWALLOWED:</b> Immediately call a POISON CENTER/doctor/medical professional. Do NOT induce vomiting. If vomiting occurs keep head low to prevent stomach contents entering the lungs.
<b>Storage</b>	Store in a well-ventilated place. Keep cool. Store locked up
<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.



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Hazard(s) not otherwise classified (HNO C) None.

Supplemental information None.

## 3. Composition/information on ingredients

Mixture Component(s)		
Chemical name	CAS number	%
2-propanol	67-63-0	20-30
2-butoxyethanol	111-76-2	5-10
Other components below reportable levels		60-80

## 4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.
Eye contact	Rinse with water for at least 15 minutes. Remove contact lenses if present and easy to do so. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur. Only induce vomiting at the instruction of medical personnel. If vomiting occurs keep head low to prevent stomach contents entering the lungs.
Most important symptoms/effects, acute and delayed	Dermatitis. Rash. May cause an allergic skin reaction. Pain, swelling excessive tearing and redness of the eye.
Indication of immediate medical attention and special treatment needed	Provide widespread support measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to the hospital. Keep victim under observation. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Wash contaminated clothing before reuse.

## 5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Carbon dioxide (CO <sub>2</sub> ). Alcohol-resistant foam. Dry chemical powder, sand, or earth may be used for small fires only.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source or ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protecting clothing must be worn in case of fire.
Fire-fighting equipment/instructions	In case of fire and/or explosion do not breathe vapors or fumes. Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	Flammable liquid and vapor.



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## 6. Accidental release measures

### Personal precautions, protective equipment, and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of vapors or mists. Ensure adequate ventilation. Remove all sources of ignition. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

### Methods and materials for containment and cleaning up

Eliminate all ignition sources. Use only non-sparking tools. Take precautionary measures against static discharge. Keep combustibles away from spilled material.

Large spills: Stop the flow of material if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements, or confined areas. Following product recovery, flush area with water.

Small spills: Absorb with earth, sand, or other non-combustible material and transfer to container for later disposal. Clean surface thoroughly with detergent and water to remove residual contamination.

Never return spills to original container for re-use. For waste disposal, see section 13 of the SDS.

### Environmental precautions

Avoid release to the environment. Avoid discharge into surface drainage paths, sanitary sewers, or other areas not consistent with package labeling.

## 7. Handling and storage

### Precautions for safe handling

Do not manage, store or open near an open flame, sources of high heat or sources of ignition. Do not smoke. Use explosion proof equipment and non-sparking tools. Take precautionary measures against static discharge. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

### Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks, and open flame. Ground/bond container and equipment. Store in original tightly closed container. Store away from incompatible materials (see section 10 of the SDS).

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
2-propanol	STEL	500 ppm
		1,225 mg/m <sup>3</sup>
	TWA	400 ppm
2-butoxyethanol	PEL	980 mg/m <sup>3</sup>
		50 ppm
		240 mg/m <sup>3</sup>

#### US ACGIH Threshold Limit Values

Components	Type	Value
2-propanol	STEL	400 ppm
		200 ppm
	TWA	20 ppm
2-butoxyethanol	TWA	20 ppm



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## Biological limit values

### ACGIH Biological Exposure Indices

Components	Value	Determinant	Species	Sampling Time
2-propanol	40 mg/L	Acetone	Urine	End of shift at end of workweek.
2-butoxyethanol	200 mg/g	Creatinine	Urine	End of shift.

## Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.

## Individual protection measures, such as personal protective equipment

### Eye/face protection

Avoid contact with eyes. Wear safety glasses with side shields (or goggles).

### Skin protection

#### Hand protection

The use of gloves impervious to the specific material managed is advised to prevent skin contact. Users should check with manufacturers to confirm the breakthrough performance of their products. 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. Suggested protective materials: Nitrile and PVC rubber.

#### Other

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. Depending on exposure and use conditions, additional protection may be necessary to prevent skin contact including use of items such as chemical-resistant boots, aprons, arm covers, hoods and/or coveralls

### Respiratory protection

In case of insufficient ventilation, wear suitable NIOSH-approved respiratory equipment.

### Thermal hazards

Wear appropriate thermal protective clothing, is not indicated for prescribed use of this product.

## General hygiene considerations

When using do not smoke or use chewing tobacco. Always observe good personal hygiene measures, such as washing after managing the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

## 9. Physical and chemical properties

### Appearance

#### Physical State

Clear liquid

#### Color

Colorless

#### Odor

Mild Citrus

#### Odor threshold

Not available.

#### pH

7-8.

#### Melting/freezing point

22.5°F (-5.5°C) estimated.

#### Initial boiling point and boiling range

210°F (99°C) estimated.

#### Flash point

77°F (25 °C) estimated.

#### Evaporation rate

Not available.

#### Flammability

Not available.

#### Flammability Limits

##### Upper

Not available.

##### Lower

Not available.



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	Not available.
Vapor pressure	
Vapor density	Not available.
Specific gravity (water=1)	0.93
Solubility in water	Complete.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.

### 10. Stability and reactivity

Reactivity	This product is stable and non-reactive under normal conditions of use.
Chemical stability	Material is stable under normal conditions. Store in a cool dark place.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Avoid heat, sparks, open flames, and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing materials, strong mineral acids.
Hazardous decomposition products	Carbon dioxide, carbon monoxide.

### 11. Toxicological information

#### Information on routes of exposure

Ingestion	Expected to be low ingestion hazard.
Inhalation	Prolonged inhalation of vapors may be harmful.
Skin contact	May cause mild skin irritation.
Eye contact	Direct contact with eyes may cause temporary irritation.
Symptoms related to the physical, chemical, and toxicological characteristics	Dermatitis. Rash. Pain, swelling excessive tearing and redness of the eye.
Acute toxicity	Not established.

Product Freeze Out (CAS mixture)		
Exposure Classification	Route and Species	LD <sub>50</sub>
Acute	Oral, rat	>7,100 mg/kg (estimated)
Acute	Dermal, rabbit	>2,000 mg/kg (estimated)
*Estimates for product may be based on additional component data not shown		

Skin corrosion/irritation	Causes mild skin irritation.
Serious eye damage/ irritation	Causes serious eye irritation.
Respiratory sensitization	Not available.
Skin sensitization	Not available.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	This product is not expected to be a carcinogen.
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	Not Listed.
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.



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Specific target organ toxicity – single exposure  
Specific target organ toxicity – repeated exposure  
Aspiration hazard

Not classified.  
Not classified.  
May be fatal if swallowed and enters airways.

## 12. Ecological information

Ecotoxicity		
Product Freeze Out (CAS mixture)		
Aquatic Receptor	Species	Test Thresholds
Crustacea	Daphnia magna	EC <sub>50</sub> (48-hr): 645 mg/l (estimated)
Fish	Oncorhynchus mykiss (rainbow trout)	LC <sub>50</sub> (96-hr): 268 mg/l (estimated)
*Estimates for product may be based on additional component data not shown		

**Persistence and degradability** No data available. Chemicals of these classes are not expected to be persistent in an open, toxic environment

**Bioaccumulative potential** Potential to bioaccumulation is expected to be exceptionally low.

**Mobility in soil** No data available. Chemicals of these classes are highly water soluble and will partition readily to water and weakly to particles in low-clay soil matrices. They are expected to exhibit moderate to high mobility in saturated and semi-saturated soils. 2-propanol will volatilize readily to air with vapor accumulation expected in open bores and confined areas of basements and enclosures.

**Other adverse effects** No data available.

## 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations

**Hazardous waste code** The waste code should be assigned in discussion between the user, the producer, and the waste disposal company. As packaged, this product meets criteria defining RCRA ignitable (D001) hazardous wastes when disposed. (40 CFR Part 261, Subpart C). Before selecting disposal method, ensure that the waste materials have been accurately assessed and, as necessary, evaluated to confirm regulatory status

**Waste from residues/unused product** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner. (See: Disposal instructions).

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may contain product residue, follow label warnings even after container is emptied.

## 14. Transport information

### USDOT

**UN number** UN1993

**UN proper shipping name** Flammable liquids, n.o.s. (Contains isopropanol)

**Transport hazard class(es)**

**Class** 3

**Subsidiary risk** -

**Packaging group** II

**Special precautions for user** Read safety instructions, SDS, and emergency procedures before handling.

**Marine pollutant** No

**Special precautions for user**



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Transport in bulk according to  
Annex II of MARPOL 73/78  
and the IBC Code  
DOT Placard/Label

This product is not intended to be transported in bulk.



### 15. Regulatory information

#### US federal regulations

**SARA 302 Extremely hazardous substance** Not listed.

**SARA 304 Emergency release notification** Not listed.

#### SARA 311/312 Hazard Categories

Immediate Hazard - Yes

Delayed Hazard – No

Fire Hazard – Yes

Pressure Hazard – No

Reactivity Hazard – No

**SARA 313 (TRI reporting)** 2-butoxyethanol (Glycol ether category)

**California Proposition 65** **California Safe Drinking Water and Toxic Enforcement Act of 1986**

This product is not known to contain any chemicals currently listed as carcinogens or reproductive toxins under California Proposition 65 at levels which would be subject to threshold determination and Safe Harbor notification (3/2022)

### 16. Other information, including date of preparation or last revision

**Issue date** 9/18/2022

**Revision date**

**Version #** 1

**HMIS® ratings**  
Health: 1  
Flammability: 3  
Physical hazard: 0

HEALTH	1
FLAMMABILITY	3
REACTIVITY	0
PERSONAL PROTECTION	



**NFPA ratings**

Health: 1  
Flammability: 3  
Instability: 0



**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge and have been obtained from resources believed to be reliable. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information related only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified by the text.

**Revision information**

First issue