

# BIG FROSTY

## Safety Data Sheet

### SECTION 1: Product and company identification

Product name : BIG FROSTY  
Use of the substance/mixture : aerosol  
Ice melter  
Product code : AA291  
Company : GREEN CHEM LABORATORIES  
1650 MARKET STREET  
SUITE 3631  
PHILADELPHIA, PA 19103 - US  
T 1-800-964-3151 - F 1-800-336-9068  
Emergency number : INFOTRAC: 1-800-535-5053 OR 1-352-323-3500

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

GHS-US classification  
Flam. Aerosol 1 H222  
Press. Gas (Comp.) H280  
Acute Tox. 3 (Oral) H301  
Acute Tox. 3 (Dermal) H311  
Acute Tox. 3 (Inhalation:gas) H331  
STOT SE 1 H370

#### 2.2. Label elements

GHS US labelling  
Hazard pictograms (GHS US) :



GHS02                      GHS04                      GHS06                      GHS08

Signal word (GHS US) : Danger  
Hazard statements (GHS US) : Extremely flammable aerosol.  
Contains gas under pressure; may explode if heated.  
Toxic if swallowed, in contact with skin or if inhaled  
Causes damage to organs (eyes, Skin, respiratory system, central nervous system, gastro-intestinal tract).  
Precautionary statements (GHS US) : 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.  
Do not breathe fume, mist, spray, vapours.  
Avoid breathing fume, mist, spray, vapours.  
Wash thoroughly after handling  
Do not eat, drink or smoke when using this product.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves, protective clothing, eye protection.  
If swallowed: Immediately call a POISON CENTER, a doctor, Do NOT induce vomiting..  
If on skin: Wash with plenty of IF ON SKIN: Wash with plenty of water/....  
If inhaled: Remove person to fresh air and keep comfortable for breathing.  
If exposed: Call a poison center/doctor.  
Call a doctor, a POISON CENTER.  
Call a POISON CENTER, a doctor if you feel unwell.  
Specific treatment (see First aid measures on this label).  
Specific treatment (see supplemental first aid instruction on this label)  
Rinse mouth.  
Take off immediately all contaminated clothing and wash it before reuse.  
Store in a well-ventilated place. Keep container tightly closed.  
Store locked up.  
Protect from sunlight. Store in a well-ventilated place.  
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.  
Dispose of contents/container to comply with local/regional/national/international regulations..

#### 2.3. Other hazards

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable.

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### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	GHS-US classification
methanol	(CAS-No.) 67-56-1	90 – 100	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Lact., H362 Repr. 1B, H360 STOT SE 1, H370
carbon dioxide, liquefied, under pressure	(CAS-No.) 124-38-9	1 – 10	Not classified
Propylene Glycol	(CAS-No.) 57-55-6	1 – 10	Not classified

All hazardous chemicals, as determined by 29 CFR 1910.1200 have been listed. A specific chemical identity and/or percentage of composition has been withheld as a trade secret. Any concentration shown as a range is to protect confidentiality or is due to batch variation.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- First-aid measures general : If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, give oxygen. Artificial respiration and/or oxygen if necessary. Respiratory problems: consult a doctor/medical service.
- First-aid measures after skin contact : Rinse skin with water/shower. Soap may be used. Take off contaminated clothing and wash it before reuse. Immediately call a POISON CENTER/doctor.
- First-aid measures after eye contact : Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. Never give anything by mouth to an unconscious person.

#### 4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/effects : Causes damage to organs. Toxic if swallowed, in contact with skin or if inhaled.
- Symptoms/effects after inhalation : Toxic if inhaled.
- Symptoms/effects after skin contact : Toxic in contact with skin.
- Symptoms/effects after eye contact : May cause severe irritation.
- Symptoms/effects after ingestion : Toxic if swallowed.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : Water fog. Dry chemical powder. Carbon dioxide.
- Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

- Fire hazard : Flammable aerosol. Under fire conditions closed containers may rupture or explode.
- Explosion hazard : Contains gas under pressure; may explode if heated. Bursting aerosol containers may be propelled from a fire at high speed.
- Reactivity : Upon combustion: CO and CO<sub>2</sub> are formed.

#### 5.3. Advice for firefighters

- Firefighting instructions : Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers.
- Protection during firefighting : Do not attempt to take action without suitable protective equipment.

### SECTION 6: Accidental release measures

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

- General measures : Evacuate unnecessary personnel. Isolate from fire, if possible, without unnecessary risk. No flames, no sparks. Eliminate all sources of ignition. No open flames. No smoking.

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### 6.1.1. For non-emergency personnel

- Protective equipment : Do not enter without an appropriate protective equipment.  
Emergency procedures : Evacuate unnecessary personnel. No open flames, no sparks, and no smoking.

### 6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.  
Emergency procedures : Stop leak if safe to do so. Stop release. Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Do not allow to enter drains or water courses.

### 6.3. Methods and material for containment and cleaning up

- For containment : Stop leak if safe to do so. Isolate area until gas has dispersed. Eliminate every possible source of ignition. Use water spray to disperse the vapours. Collect spillage.  
Methods for cleaning up : Take up liquid spill into inert absorbent material.

### 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Additional hazards when processed : Do not pierce or burn, even after use.  
Precautions for safe handling : Avoid contact with skin, eyes and clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Pressurized container: Do not pierce or burn, even after use. Avoid breathing vapours, mist. Use only outdoors or in a well-ventilated area. Do not spray on an open flame or other ignition source.

### 7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Do not puncture, incinerate or crush.  
Storage conditions : Store locked up. Keep container tightly closed. Store in a dry place. Store in a well-ventilated place. Keep out of reach of children.  
Incompatible products : Strong acids. alkalis. Oxidizing agents.  
Incompatible materials : Sources of ignition. Heat sources. Open flame.  
Heat and ignition sources : KEEP SUBSTANCE AWAY FROM: ignition sources. heat sources.  
Storage area : Store in a cool area. Store away from heat. Aerosol 1.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### methanol (67-56-1)

ACGIH	ACGIH OEL TWA [ppm]	200 ppm
ACGIH	ACGIH OEL STEL [ppm]	250 ppm
ACGIH	Remark (ACGIH)	Headache; eye dam; dizziness; nausea
OSHA	OSHA PEL TWA [1]	260 mg/m <sup>3</sup>
OSHA	OSHA PEL TWA [2]	200 ppm

#### carbon dioxide, liquefied, under pressure (124-38-9)

ACGIH	ACGIH OEL TWA [ppm]	5000 ppm
ACGIH	ACGIH OEL STEL [ppm]	30000 ppm

#### Propylene Glycol (57-55-6)

Not applicable

### 8.2. Exposure controls

- Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure good ventilation of the work station.  
Personal protective equipment : Use appropriate personal protective equipment when risk assessment indicates this is necessary. Gloves. Protective goggles. Protective apron. Protective clothing. Insufficient ventilation: wear respiratory protection.



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### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	: Gas
Appearance	: Aerosol,Clear, colorless liquid
Odour	: solvent odor
Odour threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 54 °F (liquid portion - based on lowest flashpoint of the products constituents)
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Vapour pressure	: No data available
Relative density	: No data available
Relative vapour density at 20 °C	: No data available
Density	: 0.8 g/ml
Solubility	: Soluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Partition coefficient n-octanol/water (Log Kow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
VOC content	: > 95 %

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Upon combustion: CO and CO2 are formed.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

Hazardous polymerization does not occur.

#### 10.4. Conditions to avoid

Heat. No flames, no sparks. Eliminate all sources of ignition. Welding. Open flame. Direct sunlight.

#### 10.5. Incompatible materials

Strong acids. alkalis. Oxidizing agents.

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

##### methanol (67-56-1)

LD50 dermal rabbit	12800 mg/kg
ATE CLP (oral)	100 mg/kg bodyweight
ATE CLP (dermal)	300 mg/kg bodyweight
ATE CLP (vapours)	128.2 mg/l/4h
ATE CLP (dust,mist)	0.5 mg/l/4h

##### Propylene Glycol (57-55-6)

LD50 oral rat	22000 mg/kg (Rat, Experimental value, Oral)
LD50 dermal rabbit	> 2000 mg/kg bodyweight (24 h, Rabbit, Experimental value, Dermal, 14 day(s))
ATE CLP (oral)	20000 mg/kg bodyweight

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ATE CLP (dermal)	20800 mg/kg bodyweight
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified.
STOT-single exposure	: Causes damage to organs (eyes, Skin, respiratory system, central nervous system, gastrointestinal tract).
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Potential adverse human health effects and symptoms	: Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled.
Symptoms/effects after inhalation	: Toxic if inhaled.
Symptoms/effects after skin contact	: Toxic in contact with skin.
Symptoms/effects after eye contact	: May cause severe irritation.
Symptoms/effects after ingestion	: Toxic if swallowed.
Likely routes of exposure	: Inhalation;Eyes;Dermal;Ingestion

### SECTION 12: Ecological information

#### 12.1. Toxicity

carbon dioxide, liquefied, under pressure (124-38-9)	
LC50 - Fish [1]	35 mg/l (96 h, Salmo gairdneri, Literature study, Lethal)
Propylene Glycol (57-55-6)	
LC50 - Fish [1]	51600 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Experimental value)
LC50 - Fish [2]	40613 mg/l (Other, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value)
ErC50 algae	24200 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)

#### 12.2. Persistence and degradability

carbon dioxide, liquefied, under pressure (124-38-9)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)
Propylene Glycol (57-55-6)	
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.96 – 1.08 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	1.63 g O <sub>2</sub> /g substance
ThOD	1.69 g O <sub>2</sub> /g substance

#### 12.3. Bioaccumulative potential

carbon dioxide, liquefied, under pressure (124-38-9)	
Partition coefficient n-octanol/water (Log Pow)	0.83 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
Propylene Glycol (57-55-6)	
BCF - Other aquatic organisms [1]	0.09
Partition coefficient n-octanol/water (Log Pow)	-1.07 (Experimental value, EU Method A.8: Partition Coefficient, 20.5 °C)
Bioaccumulative potential	Not bioaccumulative.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261). .  
Dispose of contents/container to comply with local/regional/national regulations.

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### SECTION 14: Transport information

#### Department of Transportation (DOT)

Transport document description (DOT) : UN1950 Aerosols flammable, (each not exceeding 1 L capacity), 2.1  
UN-No.(DOT) : UN1950  
Proper Shipping Name (DOT) : Aerosols  
flammable, (each not exceeding 1 L capacity)  
Class (DOT) : 2.1 - Class 2.1 - Flammable gas 49 CFR 173.115  
Hazard labels (DOT) : 2.1 - Flammable gas



DOT Packaging Non Bulk (49 CFR 173.xxx) : None  
DOT Packaging Bulk (49 CFR 173.xxx) : None  
DOT Special Provisions (49 CFR 172.102) : N82  
DOT Packaging Exceptions (49 CFR 173.xxx) : 306  
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 75 kg  
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 150 kg  
DOT Vessel Stowage Location : A  
DOT Vessel Stowage Other : 25 - Protected from sources of heat, 87 - Stow "separated from" Class 1 (explosives) except Division 14, 126 - Segregation same as for Class 9, miscellaneous hazardous materials

#### Additional information

Other information : When transported by ground, this product may be eligible to be shipped as a Limited Quantity utilizing the exception found at 49 CFR 173.306. If any alteration of packaging, product, or mode of transportation is further intended, different shipping names and labeling may be required.

#### ADR

No additional information available

#### Transport by sea

No additional information available

#### Air transport

No additional information available

### SECTION 15: Regulatory information

All components of this product are listed as Active, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

methanol	67-56-1	90 – 100%
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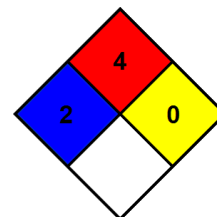
methanol	(67-56-1)	CERCLA RQ5000 lb
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**WARNING** This product can expose you to methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### SECTION 16: Other information

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.

NFPA health hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.  
NFPA fire hazard : 4 - Materials that rapidly or completely vaporize at atmospheric pressure and normal ambient temperature or that are readily dispersed in air and burn readily.  
NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



Prepared by: Technical Department

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. No warranty is expressed or implied regarding the accuracy of this data or the results

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obtained from the use thereof. Our company assumes no responsibility for personal injury or property damage to the vendee, users or third parties caused by the material. Such vendees or users assume all risks associated with the use of this material.