

## Safety data sheet

*REACH: Regulation (EC) No 2020/878 (in particular as amended by Regulation (EU) No. 1907/2006 & 2015/830 with respect to SDSs) & CLP: Regulation (EC) No 1272/2008*

Printing date 17.03.2023

Version number 1

Revision: 17.03.2023

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier:**
- **Trade name: Big Blu Sub Zero, RT150S G or D**
- **REACH Registration number:** Not relevant
- **1.2 Relevant identified uses of the substance or mixture and uses advised against:**
- **Sector of Use** Industry Specific Application
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Refrigeration Technologies  
1111 N. Armando St  
Anaheim, CA 92806  
P: 800-869-1407  
www.refrigtech.com
- **1.4 Emergency telephone number:** 1-800-255-3924 ChemTel; International Calls 1-813-248-0585

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
The product is not classified, according to the GB CLP regulation.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** Non-Regulated Material
- **Hazard pictograms** Non-Regulated Material
- **Signal word:** Non-Regulated Material
- **Hazard statements:** Non-Regulated Material
- **Precautionary Statements:**  
P102 Keep out of reach of children.
- **Additional information:**  
This value refers to knowledge of known, established toxicological or ecotoxicological values.  
0 % of the mixture consists of component(s) of unknown toxicity.  
Contains 0 % of components with unknown hazards to the aquatic environment.
- **2.3 Other hazards:** None known
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 57-55-6	Propylene Glycol	substance with a Community workplace exposure limit	50%
EINECS: 200-338-0			
RTECS: TY 2000000			

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

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### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:** If symptoms persist, call a physician.
- **After inhalation:** Assure fresh air breathing. Allow the victim to rest.
- **After skin contact:**  
Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
- **After eye contact:**  
Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
- **After swallowing:** Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
- **4.2 Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** Treat symptomatically.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
Use fire extinguishing methods suitable to surrounding conditions.  
Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- **For safety reasons unsuitable extinguishing agents:** Do not use a heavy water stream.
- **5.2 Special hazards arising from the substance or mixture:** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:**  
As in any fire, wear self-contained breathing apparatus pressure-demand and full protective gear to prevent contact with skin and eyes.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Evacuate unnecessary personnel.
- **6.2 Environmental precautions:**  
Dilute with plenty of water.  
Do not allow to enter sewers, surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of the material collected according to regulations.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.
- **Information about fire and explosion protection:** No special measures required.

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- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  $\geq 25$  (5 - 42) °C
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

#### · 8.1 Control parameters

· **Ingredients with limit values that require monitoring at the workplace:**

#### 57-55-6 Propylene Glycol

WEL	Long-term value: 474* 10** mg/m <sup>3</sup> , 150* ppm *total vapour and particulates **particulates
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· **Additional information:** The lists valid during the making were used as basis.

#### · 8.2 Exposure controls

- **Appropriate engineering controls** No further data; see section 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:**  
The usual precautionary measures are to be adhered to when handling chemicals.  
Wash hands before breaks and at the end of work.
- **Respiratory protection:**



Dust mask

#### · Hand protection



Protective gloves

- **Material of gloves:** Nitrile rubber, NBR
- **Penetration time of glove material:** Not applicable.
- **Eye/face protection**



Goggles recommended during refilling

#### · Body protection:



Protective work clothing

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· **Environmental exposure controls** None

### SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· <b>Physical state</b>	Fluid
· <b>Colour:</b>	Blue
· <b>Odour:</b>	Characteristic
· <b>Melting point/freezing point:</b>	<0 °C
· <b>Boiling point or initial boiling point and boiling range</b>	≥100 °C
· <b>Flammability</b>	Not applicable.
· <b>Lower and upper explosion limit</b>	
· <b>Lower:</b>	Not determined.
· <b>Upper:</b>	Not determined.
· <b>Flash point:</b>	Not applicable.
· <b>Auto-ignition temperature:</b>	Not applicable
· <b>Decomposition temperature:</b>	Not determined.
· <b>pH @ 20 °C</b>	7.5 (7-8)
· <b>Viscosity:</b>	
· <b>Kinematic viscosity</b>	Not determined.
· <b>Dynamic:</b>	Not determined.
· <b>Solubility</b>	
· <b>water:</b>	Fully miscible.
· <b>Partition coefficient n-octanol/water (log value)</b>	Not determined.
· <b>Vapour pressure @ 20 °C:</b>	≤0.1 hPa
· <b>Density and/or relative density</b>	
· <b>Density @ 20 °C:</b>	>1.05 g/cm <sup>3</sup>
· <b>Relative density:</b>	Not determined.
· <b>Vapour density:</b>	Not determined.

· **9.2 Other information**

· <b>Appearance:</b>	
· <b>Form:</b>	Fluid
· <b>Important information on protection of health and environment, and on safety.</b>	
· <b>Ignition temperature:</b>	Product is not self-igniting.
· <b>Explosive properties:</b>	Product does not present an explosion hazard.
· <b>Solvent content:</b>	
· <b>VOC (EC)</b>	<500 g/L (VP-VOC)
· <b>Solids content:</b>	0.0 %
· <b>Change in condition</b>	
· <b>Evaporation rate:</b>	Not determined.
· <b>Information with regard to physical hazard classes</b>	
· <b>Explosives</b>	Non-Regulated Material
· <b>Flammable gases</b>	Non-Regulated Material
· <b>Aerosols</b>	Non-Regulated Material
· <b>Oxidising gases</b>	Non-Regulated Material

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|--|------------------------|
| · <b>Gases under pressure</b>  | Non-Regulated Material |
| · <b>Flammable liquids</b>   | Non-Regulated Material |
| · <b>Flammable solids</b>  | Non-Regulated Material |
| · <b>Self-reactive substances and mixtures</b>                                     | Non-Regulated Material |
| · <b>Pyrophoric liquids</b>  | Non-Regulated Material |
| · <b>Pyrophoric solids</b>   | Non-Regulated Material |
| · <b>Self-heating substances and mixtures</b>                                      | Non-Regulated Material |
| · <b>Substances and mixtures, which emit flammable gases in contact with water</b> | Non-Regulated Material |
| · <b>Oxidising liquids</b>   | Non-Regulated Material |
| · <b>Oxidising solids</b>  | Non-Regulated Material |
| · <b>Organic peroxides</b>   | Non-Regulated Material |
| · <b>Corrosive to metals</b>   | Non-Regulated Material |
| · <b>Desensitised explosives</b>   | Non-Regulated Material |

### SECTION 10: Stability and reactivity

- **10.1 Reactivity:** No further relevant information available.
- **10.2 Chemical stability:** Product is stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions:** No dangerous reactions known.
- **10.4 Conditions to avoid:** Direct sunlight. Extremely high or low temperatures.
- **10.5 Incompatible materials:** Strong acids. Strong bases.
- **10.6 Hazardous decomposition products:** Fume. Carbon monoxide. Carbon dioxide.

### SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**

**57-55-6 Propylene Glycol**

Oral	LD50	20,000 mg/kg (Rat)
Dermal	LD50	20,800 mg/kg (Rabbit)
Inhalative	LC50/96 hours	52,930 mg/l (Pimephales)
	Intravenous	6,630 mg/kg (Mouse)
		6,423 mg/kg (Rat)
		6,500 mg/kg (Rabbit)

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Sensitisation:** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT (Specific target organ toxicity)-single exposure**  
Based on available data, the classification criteria are not met.
- **STOT (Specific target organ toxicity)-repeated exposure**  
Based on available data, the classification criteria are not met.

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- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients are listed.

### SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

**57-55-6 Propylene Glycol**

EC50 >10,000 mg/l (Daphnia)

- **12.2 Persistence and degradability:** Readily biodegradable 28 days.
- **12.3 Bioaccumulative potential:** Low
- **12.4 Mobility in soil:** Not toxic to plants. Not toxic to animals.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties**  
The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
- **Additional ecological information:**
- **General notes:** Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation:**  
Observe all federal, state and local environmental regulations when disposing of this material.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### SECTION 14: Transport information

- **14.1 UN number or ID number**
- **ADR/ADN, IMDG, IATA** Non-Regulated Material
- **14.2 UN proper shipping name**
- **ADR/ADN, IMDG, IATA** Non-Regulated Material
- **14.3 Transport hazard class(es)**
- **ADR/ADN, ADN, IMDG, IATA**
- **Class** Non-Regulated Material
- **14.4 Packing group**
- **ADR/ADN, IMDG, IATA** Non-Regulated Material
- **14.5 Environmental hazards:** Not applicable.
- **14.6 Special precautions for user** Not applicable.
- **14.7 Maritime transport in bulk according to IMO instruments** Not applicable.

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· **UN "Model Regulation":** Non-Regulated Material

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU** Substance is not listed.
- **Named dangerous substances - ANNEX I** None of the ingredients are listed.

· **National regulations:**

The product is not subject to be labelled according with the prevailing version of the regulations on hazardous substances.

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

- **\* Data compared to the previous version altered.**

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