



# RT100S G or D Big Blu

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : RT100S G or D Big Blu

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.3. Details of the supplier of the safety data sheet

Refrigeration Technologies  
1111 N. Armando St.  
Anaheim, CA 92806 - USA  
T 1-800-869-1407  
[www.refrigtech.com](http://www.refrigtech.com)

#### 1.4. Emergency telephone number

Emergency number : 1-800-255-3924 ChemTel; International Calls 1-813-248-0585

### SECTION 2: Hazards identification

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

##### GHS-US classification

Not classified

#### 2.2. Label elements

##### GHS-US labelling

No labelling applicable

#### 2.3. Other hazards

No additional information available

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

No data available

### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Not applicable

Full text of H-phrases: see section 16

#### 3.2. Mixture

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).  
First-aid measures after inhalation : Assure fresh air breathing. Allow the victim to rest.  
First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.  
First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.  
First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

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

No additional information available

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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.  
Unsuitable extinguishing media : Do not use a heavy water stream.

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

No additional information available

#### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.  
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6: Accidental release measures

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

##### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.  
Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

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.

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

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.  
Incompatible products : Strong bases. Strong acids.  
Incompatible materials : Sources of ignition. Direct sunlight.  
Storage temperature :  $\geq 25$  (5 - 42) °C

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure.  
Hand protection : Wear protective gloves.  
Eye protection : Chemical goggles or safety glasses.  
Respiratory protection : Wear appropriate mask.  
Other information : Do not eat, drink or smoke during use.

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### SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Colour	: Blue.
Odour	: Characteristic odour.
Odour threshold	: No data available
pH	: $\geq 7.5$ (7 - 8)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: $\leq 0$ °C
Boiling point	: $\geq 100$ °C
Flash point	: None
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: $\geq 1.04$ g/ml
Solubility	: Soluble in water.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

#### 9.2. Other information

VOC content	: 0 g/l
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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Not established.

#### 10.3. Possibility of hazardous reactions

Not established.

#### 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 toxicological effects

Acute toxicity	: Not classified
Skin corrosion/irritation	: Not classified
	pH: $\geq 7.5$ (7 - 8)

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Serious eye damage/irritation	: Not classified pH: >= 7.5 (7 - 8)
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : Readily biodegradable 28 days.

#### 12.2. Persistence and degradability

##### RT100S G or D Big Blu

Persistence and degradability	Biodegradable in the soil. Biodegradable in water. Not established.
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#### 12.3. Bioaccumulative potential

##### RT100S G or D Big Blu

Bioaccumulative potential	Not established.
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#### 12.4. Mobility in soil

##### RT100S G or D Big Blu

Ecology - soil	Not toxic to plants. Not toxic to animals.
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#### 12.5. Other adverse effects

Other information : No other effects known. Avoid release to the environment.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

### SECTION 14: Transport information

In accordance with DOT

No dangerous good in sense of transport regulations

#### Additional information

Other information : No supplementary information available.

#### ADR

Transport document description :

#### Transport by sea

No additional information available

#### Air transport

No additional information available

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

No additional information available

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### 15.2. International regulations

#### CANADA

##### RT100S G or D Big Blu

WHMIS Classification

This product does not require hazardous labeling or symbols

#### EU-Regulations

No additional information available

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

#### Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

#### 15.2.2. National regulations

No additional information available

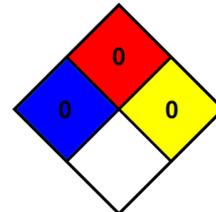
### 15.3. US State regulations

No additional information available

## SECTION 16: Other information

Other information : None.

NFPA health hazard : 0 - Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.  
NFPA fire hazard : 0 - Materials that will not burn.  
NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.  
NFPA specific hazard : None



#### HMIS III Rating

Health : 0 Minimal Hazard - No significant risk to health  
Flammability : 0 Minimal Hazard  
Physical : 0 Minimal Hazard

SDS US (GHS HazCom 2012)

*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*

Updated: November 2006

OSHA HAZARD COMMUNICATION STANDARD 29 CFR 1910.1200:

**MATERIAL SAFETY DATA SHEET**

# ***BIG BLU RT100***

**MATERIAL IDENTIFICATION**

**BIG BLU is a trademark of REFRIGERATION TECHNOLOGIES**

<i>Manufacturer</i>	Refrigeration Technologies 2572-C E. Fender Ave. Fullerton, CA 92831
<i>Emergency Phone Numbers</i>	(800)255-3924 [Chem-Tel]
<i>Product Information</i>	(800)869-1407

***HAZARDOUS INGREDIENTS***

Hazardous Components

NONE

***PHYSICAL/CHEMICAL CHARACTERISTICS***

Boiling Point - 212 F

Vapor Pressure - Not Tested

Vapor Density - Not Tested

Solubility in Water - 100%

Appearance and Odor - Blue/Bland Odor

Specific Gravity - 1.03

Melting Point - Not Tested

Evaporation Rate - Not Tested

VOC Content - None

***FIRE AND EXPLOSION HAZARD DATA***

Flash Point - None

Flammable Limits - Not Tested

LEL - None UEL - None

pH - 6.5 - 8.0 DOT# - None

NFPA Hazard Rating - H F R S

(0 - Least, 4- Extreme) 0 0 0 0

Extinguishing Media - None  
Special Fire Fighting Procedures - None  
Unusual Fire and Explosion Hazards - None

### ***REACTIVITY DATA***

Stability - Stable  
Conditions to Avoid - None  
Incompatible Material to Avoid - None  
Hazardous Decomposition or Byproducts - None  
Hazardous Polymerization - None  
Conditions to Avoid - None

### ***HEALTH HAZARD DATA***

Routes of Entry  
Inhalation? - Possible Skin? - Possible Ingestion? - Possible.  
Health Hazards - Same as signs and symptoms of exposure.  
Skin - Slight irritation possible  
Ingestion - Nausea.  
Inhalation - Not expected to be a problem.  
Medical conditions generally aggravated by exposure.  
Same as signs and symptoms of over exposure.  
**Emergency and First Aid Procedures.**  
SKIN - Wash with soap and water.  
INGESTION - Drink large amounts of water to dilute. Call physician.  
INHALATION - See above.  
EYES - Flush with water, if irritation develops, seek medical attention.

### ***PRECAUTIONS OF SAFE HANDLING AND USE***

Steps to be taken in case material is released or spilled - Soak up with inert, absorbent material. Scoop up and place in a proper waste disposal container.  
Waste Disposal Method - Dispose of in accordance with state and local regulations. Precautions to be taken in handling and storing - store in a cool, dry place, out of direct sunlight. Do not freeze or heat above 110°F.  
Other Precautions: Keep out of reach of children. Follow directions on the container for proper use of this product.

### ***CONTROL MEASURES***

Respiratory Protection - Open all doors and windows. Exposures above the TLV or PEL require a NIOSH approved respirator equipped for the exposure or suitable respiratory protection per 29 CFR 1910.134.

**Ventilation: Not needed**  
**Local Exhaust - If Available Special - None**  
**Mechanical - If Available Other - None**

***CERTIFICATIONS***

**Corrosiveness - The compound has passed the corrosion tests specified by EPA 1110.**

**Compatibility with Oxygen - The compound has passed the test specified by Mil Spec L-25567.**

**Not intended for internal consumption. Not expected to present a hazard under anticipated conditions of use. The information in this MSDS relates only to the product designated herein and does not relate to the use in combination, mixture, process, or otherwise with any other material, or to the use of this product by others which is beyond our control.**