# SAFETY DATA SHEET

Issuing Date 03-Jun-2020

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**Revision Number** 1

NGHS / English

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# 1. IDENTIFICATION

Product identifier

Product Name Danby Refrigeration Products - R32

Other means of identification

Product Code(s) 1513231

Recommended use of the chemical and restrictions on use

Recommended Use Appliance containing Compressed Gas (not Freon)

Restrictions on use No information available

Details of the supplier of the safety data sheet

Supplier Identification Danby Products Ltd.

Address 1800 Production Dr

5070 Whitelaw Rd

Findlay Ohio 45840 US

Telephone Phone:1-800-263-2629

Fax:519-837-0449

E-mail ddaugherty@danby.com

Emergency telephone number

**Company Emergency Phone** 

Number

1-800-263-2629 ext 261

# 2. HAZARDS IDENTIFICATION

### Classification

Flammable gases	Category 1
Gases under pressure	Liquefied Gas



Appearance Clear Physical state Gas Odor Odorless

#### GHS Label elements, including precautionary statements

#### **Danger**

### **Hazard statements**

Extremely flammable gas

Contains gas under pressure; may explode if heated



#### **Precautionary Statements - Prevention**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

### **Precautionary Statements - Response**

#### Skin

Eliminate all ignition sources if safe to do so

#### Fire

Leaking gas fire: Do not extinguish, unless leak can be stopped safely

#### **Precautionary Statements - Storage**

Store in well-ventilated place

Protect from sunlight. Store in a well-ventilated place

### Other information

**Unknown acute toxicity** 100 % of the mixture consists of ingredient(s) of unknown toxicity

- 100 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 100 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
- 100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- 100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

### <u>Substance</u>

Chemical name	CAS No.	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Methylene fluoride	75-10-5	100	-	-

4. FIRST AID MEASURES



Description of first aid measures

General advice In case of rupture: Do not get in eyes, on skin, or on clothing. Do not breathe

dust/fume/gas/mist/vapors/spray.

**Inhalation** Remove to fresh air. If breathing is difficult, (trained personnel should) give oxygen. If not

breathing, give artificial respiration.

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Seek immediate medical attention/advice.

**Skin contact** In case of contact with liquefied gas, thaw frosted parts with lukewarm water.

**Ingestion** Not an expected route of exposure. Call a physician immediately.

Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

Indication of any immediate medical attention and special treatment needed

**Note to physicians** A patient adversely affected by exposure to this product should not be given adrenaline

(epinephrine) or similar heart stimulant since these would increase the risk of cardiac

arrhythmias.

### 5. FIRE-FIGHTING MEASURES

surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media DO NOT EXTINGUISH A LEAKING GAS FIRE UNLESS LEAK CAN BE STOPPED.

Specific hazards arising from the

chemical

Cylinders may rupture under extreme heat. Damaged cylinders should be handled only by specialists. Containers may explode when heated. Ruptured cylinders may rocket. Some

may burn, but not ignite readily.

Hazardous Combustion Products Carbon oxides.

**Explosion Data** 

Sensitivity to Mechanical Impact Yes.
Sensitivity to Static Discharge None

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

# **6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures

**Personal precautions** Stop leak if you can do it without risk.

Other Information Ventilate the area.

Methods and material for containment and cleaning up



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Methods for containment If possible, turn leaking containers so that gas escapes rather than liquid.

**Methods for cleaning up**Do not direct water at spill or source of leak.

### 7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Do not breathe vapor or mist. Do not smoke. Use with local exhaust ventilation. Do not

puncture or incinerate cans. Do not stick pin or any other sharp object into opening on top

of can. Do not breathe dust/fume/gas/mist/vapors/spray.

Conditions for safe storage, including any incompatibilities

**Storage Conditions**Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from sunlight.

Keep away from open flames, hot surfaces and sources of ignition.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering controls Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

**Eye/face protection** No special protective equipment required.

**Skin and body protection**No special protective equipment required.

exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Gas
Appearance Clear
Odor Odorless

**Color** No information available

Odor Threshold Not applicable



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Property Values Remarks Method

No data available None known pН Melting / freezing point No data available None known Boiling point / boiling range No data available None known Flash Point No data available None known No data available None known **Evaporation Rate** Flammability (solid, gas) No data available None known

None known

Flammability Limit in Air

Upper flammability limit No data available

Lower flammability limit No data available

Vapor pressureNo data availableNone knownVapor densityNo data availableNone known

Relative density 1

Water Solubility Insoluble

Solubility(ies) No data available None known

Partition coefficient: n-octanol/water1

Autoignition temperatureNo data availableNone knownDecomposition temperatureNo data availableNone knownKinematic viscosityNo data availableNone knownDynamic viscosityNo data availableNone known

Other Information

No information available **Explosive properties Oxidizing properties** No information available No information available **Softening Point Molecular Weight** No information available **VOC Content (%)** No information available **Liquid Density** No information available **Bulk Density** No information available **Particle Size** No information available **Particle Size Distribution** No information available

### 10. STABILITY AND REACTIVITY

**Reactivity** No information available.

Chemical stability Stable under normal conditions.

Possibility of Hazardous Reactions None under normal processing.

**Hazardous Polymerization** Hazardous polymerization does not occur.

Conditions to avoid Excessive heat.

**Incompatible materials**None known based on information supplied.

Hazardous Decomposition Products Carbon oxides.

# 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information Product does not present an acute toxicity hazard based on known or supplied information

In case of rupture:

**Inhalation** In high concentration the gas may cause a suffocation. Victim may not be aware of



asphyxiation. Intentional misuse by deliberately concentrating and inhaling contents may be

harmful or fatal. May cause drowsiness or dizziness.

Eye contact Specific test data for the substance or mixture is not available. Contact with product may

cause frostbite.

**Skin contact** Specific test data for the substance or mixture is not available. Contact with product may

cause frostbite.

Ingestion Specific test data for the substance or mixture is not available. Not an expected route of

exposure.

### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available.

Numerical measures of toxicity

**Acute Toxicity** 

Unknown acute toxicity 100 % of the mixture consists of ingredient(s) of unknown toxicity

100 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

100 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Methylene fluoride	-	-	> 520000 ppm (Rat) 4 h =
			1890 g/m³(Rat)4 h

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation No information available.

Serious eye damage/eye irritation No information available.

**Respiratory or skin sensitization** No information available.

Germ cell mutagenicity No information available.

**Carcinogenicity** No information available.

**Reproductive toxicity**No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

### 12. ECOLOGICAL INFORMATION

**Ecotoxicity** The environmental impact of this product has not been fully investigated.



Persistence and Degradability No information available.

**Bioaccumulation** There is no data for this product.

**Mobility** No information available.

Other adverse effects No information available.

# 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

US EPA Waste Number D001

California Waste Codes 331

# 14. TRANSPORT INFORMATION

**DOT** NOT REGULATED

Proper Shipping Name NON-REGULATED

Hazard Class N/A

TDG Not regulated

MEX Not regulated

ICAO Not regulated

IATA Not regulated

Proper Shipping Name NON REGULATED

Hazard Class N/A

IMDG/IMO Not regulated

Hazard Class N/A

RID Not regulated

ADR Not regulated

<u>ADN</u> Not regulated

# 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

**International Regulations** 

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable



### The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

**International Inventories** 

TSCA

DSL/NDSL

Contact supplier for inventory compliance status.

### Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

### **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications. Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.

#### **CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Methylene fluoride		X		
75-10-5				

### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

### **US State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

#### **U.S. State Right-to-Know Regulations**

This product may contain substances regulated by state right-to-know regulations.



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Chemical name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Methylene fluoride			X		
75-10-5					

# **16. OTHER INFORMATION**

NFPA Health hazards 1 Flammability 4 Instability 0 Physical and Chemical

Properties -

HMIS Health hazards 1 Flammability 4 Physical hazards 0 Personal Protection X

Prepared By Product Stewardship

23 British American Blvd. Latham, NY 12110 1-800-572-6501

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Revision Note No information available

#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. 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 relates 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 in the text

**End of Safety Data Sheet** 

