

SAFETY DATA SHEET



Date Issued : 11/27/2018
 SDS No : 1031
 Date Revised : 04/20/2022
 Revision No : 2

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Black Diamond R-134a w/Gauge 18 oz.
PRODUCT CODE: BD232, BD232G, BD232D, BD232CA

DISTRIBUTOR

AC Avalanche, LLC
 809 110th Street
 Arlington, TX 76011

Emergency Contact: Ginger Stewart
Customer Service: 737-377-0194

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC: 800-424-9300

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS**Health:**

Skin Sensitization, Category 1A
 Reproductive Toxicity, Category 2

Physical:

Gases Under Pressure, Liquefied Gases

GHS LABEL

Exclamation
mark



Health
hazard



Gas cylinder

SIGNAL WORD: WARNING

HAZARD STATEMENTS

H317: May cause an allergic skin reaction.
 H361: Suspected of damaging fertility or the unborn child.
 H280: Contains gas under pressure; may explode if heated.

PRECAUTIONARY STATEMENTS**Prevention:**

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
 P272: Contaminated work clothing should not be allowed out of the workplace.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.
 P202: Do not handle until all safety precautions have been read and understood.
 P201: Obtain special instructions before use.

Response:

P302+P352: IF ON SKIN: Wash with plenty of water.
 P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P363: Wash contaminated clothing before reuse.

P308+P313: IF exposed or concerned: Get medical advice/ attention.

Storage:

P405: Store locked up.

P410+P403: Protect from sunlight. Store in a well-ventilated place.

Disposal:

P501: Dispose of contents/container to a licensed contractor in accordance with local, state and federal regulations.

HAZARDS NOT OTHERWISE CLASSIFIED:

Liquid can cause burns similar to frostbite.

May displace oxygen and cause rapid suffocation.

REPRODUCTIVE TOXICITY

REPRODUCTIVE EFFECTS: A component of this material has been shown to impair fertility and cause adverse reproductive effects in rats and mice.

SENSITIZATION: Sensitizing to the skin and may cause an allergic skin reaction.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Additive Package	*	Proprietary
Double End Capped PAG	*	Proprietary
Lubricant	*	Proprietary
1,1,1,2-tetrafluoroethane	94	811-97-2

COMMENTS: *Ingredients and composition are withheld as trade secret in accordance with 29CFR1910.1200(i).

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

SKIN: Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

INGESTION: Rinse mouth with water. Do not induce vomiting. Seek medical attention if you feel unwell.

INHALATION: Remove to fresh air. If breathing is difficult seek medical attention.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

SKIN: Dermal contact with rapidly evaporating liquid could result in freezing of the tissues or frostbite.

NOTES TO PHYSICIAN: Treat symptomatically.

5. FIRE FIGHTING MEASURES

FLAMMABLE CLASS: Non-flammable.

EXTINGUISHING MEDIA: Dry Chemical, CO₂, Foam. Water Spray.

HAZARDOUS COMBUSTION PRODUCTS: May produce hazardous fumes.

OTHER CONSIDERATIONS: Keep adjacent containers cool with water spray.

FIRE FIGHTING PROCEDURES: Do not use a water jet.

FIRE FIGHTING EQUIPMENT: In case of fire, wear a full-face positive pressure self contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Contain and soak up spill with non-combustible absorbent material. Dampen and scoop spilled material into suitable containers, seal and label.

LARGE SPILL: Avoid contact with skin and eyes. Evacuate the area of all non-essential personnel. Shut off leaks, if possible without personal risk. Absorb or contain liquid with non-combustible absorbent material. Place in a labelled, sealable container for subsequent safe disposal.

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: Prevent material from entering drains or watercourses using sand, earth or other appropriate barriers.

LAND SPILL: Prevent contamination of the soil.

GENERAL PROCEDURES: Do not touch or walk through spilled materials. Avoid contact with spilled materials. Use appropriate personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Caution: surfaces may become slippery after spillage. Clean contaminated surfaces thoroughly.

SPECIAL PROTECTIVE EQUIPMENT: Use protective equipment recommended in Section 8.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Handle in accordance with good industrial hygiene and safety practices.

HANDLING: Use only in a well ventilated area. Avoid breathing (dust, vapor, mist, gas). Avoid contact with eyes, skin, and clothing. Keep away from heat and flame. Wash thoroughly after handling.

STORAGE: Keep container tightly closed in a dry, well-ventilated place away from heat, open flame, or sources of ignition. Store away from incompatible materials (see section 10). Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**EXPOSURE GUIDELINES**

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)			
Chemical Name	EXPOSURE LIMITS		
	Type	ppm	mg/m ³
1,1,1,2-tetrafluoroethane	Supplier OEL	TWA	1000

ENGINEERING CONTROLS: Eye washes and showers for emergency use.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear safety glasses with side shields (or goggles) or a face shield.

SKIN: Use chemically resistant gloves; appropriate materials are PVC. Nitrile.

RESPIRATORY: Use appropriate protection if there is risk of breathing the mists or vapors or heated materials.

PROTECTIVE CLOTHING: Wear full protective clothing and chemical resistant gloves to prevent prolonged skin contact.

WORK HYGIENIC PRACTICES: Wash hands, forearms and face before eating, drinking, smoking and using the restroom. Launder contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

COLOR: Colorless to pale yellow

PHYSICAL STATE COMMENTS: Compressed liquefied gas

pH: Not Available

FLASH POINT AND METHOD: 250°C COC-ASTM D-92

FLAMMABLE LIMITS: Not Available

AUTOIGNITION TEMPERATURE: Not Available

VAPOR PRESSURE: Not Available

VAPOR DENSITY: Not Available

BOILING POINT: Not Available

FREEZING POINT: Not Available

SOLUBILITY IN WATER: Partially soluble

DENSITY: 0.992 g/cm³ at 20°C

VISCOSITY #1: 50 cSt at 40°C

10. STABILITY AND REACTIVITY

REACTIVITY: Yes

STABILITY: Stable under normal conditions.

CONDITIONS TO AVOID: Avoid contamination with foreign materials, excessive heat, sparks, or open flames, direct sunlight.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon oxides. Hydrogen fluoride and carbonyl fluoride if decomposition occurs at temperatures >250°C.

INCOMPATIBLE MATERIALS: Strong oxidizers, strong acids, strong bases.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

DERMAL LD₅₀: No data available.

ORAL LD₅₀: No data available.

INHALATION LC₅₀: 1500 g/m³ - rat (4h)

NOTES: Information given is based on the toxicology of components in the mixture.

SKIN CORROSION/IRRITATION: May cause irritation. Liquid can cause burns similar to frostbite.

SERIOUS EYE DAMAGE/IRRITATION: Not a primary irritant.

RESPIRATORY OR SKIN SENSITISATION: Sensitizing to the skin and can cause an allergic skin reaction.

GERM CELL MUTAGENICITY: A component of this product may cause mutagenic effects.

REPRODUCTIVE TOXICITY: A component of this material has been shown to impair fertility and cause adverse reproductive effects in rats and mice.

STOT-SINGLE EXPOSURE: Not Available

STOT-REPEATED EXPOSURE: Repeated or prolonged contact may produce defatting of the skin leading to irritation and dermatitis.

ASPIRATION HAZARD: None Expected.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Ecotoxicological data have not been determined specifically for this product. The information below is given based on knowledge of the components.

BIOACCUMULATION/ACCUMULATION: Low potential for bioaccumulation.

DISTRIBUTION: Adsorbs to soil and has low mobility.

AQUATIC TOXICITY (ACUTE): No known significant effects or critical hazards.

CHEMICAL FATE INFORMATION: No data available.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose of contents/container to a licensed contractor or facility in accordance with local, state and federal regulations.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: 1,1,1,2-Tetrafluoroethane

PRIMARY HAZARD CLASS/DIVISION: 2.2

UN/NA NUMBER: UN3159

PACKING GROUP: N/A

PLACARDS: Compressed gas

SPECIAL SHIPPING NOTES: Special provisions: T50

AIR (ICAO/IATA)

SHIPPING NAME: 1,1,1,2-Tetrafluoroethane

UN/NA NUMBER: UN3159

PRIMARY HAZARD CLASS/DIVISION: 2.2

PACKING GROUP: N/A**PLACARDS:** Compressed gas**VESSEL (IMO/IMDG)****SHIPPING NAME:** 1,1,1,2-Tetrafluoroethane**UN/NA NUMBER:** UN3159**PRIMARY HAZARD CLASS/DIVISION:** 2.2**PACKING GROUP:** N/A**PLACARDS:** Compressed gas**15. REGULATORY INFORMATION****UNITED STATES****SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)****311/312 HAZARD CATEGORIES:** Delayed Health**311/312 PHYSICAL HAZARDS:** Gases Under Pressure**313 REPORTABLE INGREDIENTS:** None**CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT)****CERCLA REGULATORY:** Toluene: CAS# 108-88-3 (<3 PPM)**CERCLA RQ:** 1000 lbs**TSCA (TOXIC SUBSTANCE CONTROL ACT)**

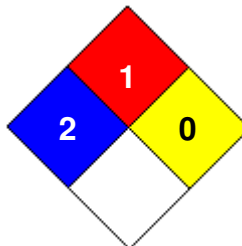
Chemical Name	CAS
1,1,1,2-tetrafluoroethane	811-97-2

TSCA STATUS: All components listed or exempt.

CALIFORNIA PROPOSITION 65: WARNING: This product can expose you to chemicals including Toluene (CAS#108-88-3; <3 PPM), which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

CANADA**DOMESTIC SUBSTANCE LIST (INVENTORY):** All components are listed or exempt.**16. OTHER INFORMATION****REASON FOR ISSUE:** Company information updates.**APPROVED BY:** Ginger Stewart**PREPARED BY:** Shrieve Chemical Products HSE Department **Date Prepared:** 04/20/2022**HMIS RATING**

HEALTH	<input type="checkbox"/>	2
FLAMMABILITY	<input type="checkbox"/>	1
PHYSICAL HAZARD	<input type="checkbox"/>	0
PERSONAL PROTECTION	<input type="checkbox"/>	

NFPA CODES

MANUFACTURER DISCLAIMER: The information is based on the data of which we are aware and is believed to be correct as of the data hereof. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modification of the information, we do not assume any responsibility for the result of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.