



SAFETY DATA SHEET

BD005

Date Issued: 11/02/2018

SDS No : 1024

Revision Date: 7/6/22

Revision No. 2

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: BD005

PRODUCT DESCRIPTION: Black Diamond PAG Ester Oil Charge

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

Physical:

Compressed Gases

GHS LABEL

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)



Gas cylinder

SIGNAL WORD: WARNING

HAZARD STATEMENTS

H280: Contains gas under pressure; may explode if heated.

PRECAUTIONARY STATEMENTS

Storage:

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

HAZARDS NOT OTHERWISE CLASSIFIED:

Liquid can cause burns similar to frostbite.

May displace oxygen and cause rapid suffocation.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Polyol Ester	*	Proprietary
1,1,1,2-tetrafluoroethane	33	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 rinse skin with plenty of water. If irritation occurs, remove affected clothing. Get medical attention if irritation persists. Wash affected clothing separately before reuse.

INGESTION: If large amounts are swallowed or if you feel unwell, seek medical attention. Do not induce vomiting. Never give anything by mouth to an unconscious person.

INHALATION: Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get immediate medical attention if symptoms persist.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: May cause eye irritation.

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

INGESTION: May cause gastrointestinal irritation, nausea, and diarrhea.

INHALATION: Not expected to cause irritation under normal conditions. May cause irritation of nose, mucous membranes, and throat when exposed to vapors or mists.

5. FIRE FIGHTING MEASURES

FLAMMABLE CLASS: Non-flammable.

GENERAL HAZARD: Do NOT use water stream or water jet.

EXTINGUISHING MEDIA: Dry chemical, CO₂, Foam, Fog.

OTHER CONSIDERATIONS: Keep adjacent containers cool with water spray.

FIRE FIGHTING PROCEDURES: As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

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

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

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-combustibles 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: Avoid contact with skin and eyes. Wash hands before eating, drinking, or smoking.

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).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

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

ENGINEERING CONTROLS: Provide adequate ventilation. Eye washes and showers for emergency use.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear chemical splash goggles; add a face shield when transferring material.

SKIN: Use protective clothing, sleeves, boots, face protection and chemical resistant gloves.

RESPIRATORY: Under normal conditions, respiratory equipment is not necessary. Wear suitable respiratory equipment if risk of insufficient ventilation or risk of breathing mists or vapors from 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

ODOR: Mild

COLOR: Clear/faintly yellow

PHYSICAL STATE COMMENTS: Compressed liquefied gas

pH: Not Available

FLASH POINT AND METHOD: 265°C COC-ASTM D-92

FLAMMABLE LIMITS: Not Available

AUTOIGNITION TEMPERATURE: Not Available

POUR POINT: -27°C

DENSITY: 0.954 at 15°C

Notes: g/cm³

VISCOSITY #1: 95 cSt at 40°C Kinematic

VISCOSITY #2: 11 cSt at 100°C Kinematic

10. STABILITY AND REACTIVITY

HAZARDOUS POLYMERIZATION: Will not occur.

STABILITY: Stable under normal conditions.

CONDITIONS TO AVOID: Avoid contamination with foreign materials.

POSSIBILITY OF HAZARDOUS REACTIONS: None Expected.

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

INCOMPATIBLE MATERIALS: Strong oxidizers, strong alkalis, 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: Prolonged or repeated contact may dry skin and cause irritation. Dermal contact with rapidly evaporating liquid could result in freezing of the tissues or frostbite.

SERIOUS EYE DAMAGE/IRRITATION: Not a primary irritant.

RESPIRATORY OR SKIN SENSITISATION: Not Available

GERM CELL MUTAGENICITY: Not Available

CARCINOGENICITY

NOTES: Not Available

REPRODUCTIVE TOXICITY: Not Available

STOT-SINGLE EXPOSURE: Not Available

STOT-REPEATED EXPOSURE: None Expected.

ASPIRATION HAZARD: Not classified as an aspiration hazard.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Not classified as an environmental hazard.

BIOACCUMULATION/ACCUMULATION: Not expected to bio-accumulate.

DISTRIBUTION: Low mobility due to low water solubility.

AQUATIC TOXICITY (ACUTE)

Notes: Not Available

CHEMICAL FATE INFORMATION: Partially biodegradable.

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

OTHER SHIPPING INFORMATION:

These shipments are ORM.D and exempt from bill of lading requirements when sent via ground under 1 liter when packaged for retail sale as per 49 CFR 173.306. If product exceeds 1 liter then will comply with the above:

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 PHYSICAL HAZARDS: Gases Under Pressure

313 REPORTABLE INGREDIENTS: All components listed or exempt.

302/304 EMERGENCY PLANNING

EMERGENCY PLAN: NA = Not Applicable

CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA REGULATORY: Contains no CERCLA regulated ingredients at detectable levels.

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: This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

CANADA

DOMESTIC SUBSTANCE LIST (INVENTORY): All components are listed or exempt.

16. OTHER INFORMATION

REASON FOR ISSUE: Revision

APPROVED BY: Ginger Stewart

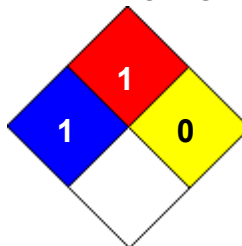
PREPARED BY: Shrieve Chemical Products HSE Department

Date Prepared: 11/02/2018

HMIS RATING

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

NFPA CODES



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