

SAFETY DATA SHEET



Date Issued : 10/09/2020
 SDS No : 1387
 Date Revised : 03/24/2022
 Revision No : 2

AG233

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: AG233
PRODUCT DESCRIPTION: Avalanche Gold R-1234yf Super Chill

DISTRIBUTOR

AC Avalanche LLC
 809 110th Street
 Arlington, TX 76011

Emergency Contact: Ginger Stewart

Customer Service: 817-719-3037 x1002

24 HR. EMERGENCY TELEPHONE NUMBERS

Poison Control Center (Medical) : (800) 222-1222
CHEMTREC (US Transportation) : (800) 424-9300
CHEMTREC (Int. Transportation): +1 (703) 741-5970

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

Health:

No health Hazard.

Physical:

Flammable Gases, Category 1
 Gases Under Pressure, Liquefied Gases

GHS LABEL

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



Flame



Gas cylinder

SIGNAL WORD: DANGER

HAZARD STATEMENTS

H280: Contains gas under pressure; may explode if heated.
 H220: Extremely flammable gas.

PRECAUTIONARY STATEMENTS

Prevention:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Response:

P377: Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
 P381: Eliminate all ignition sources if safe to do so.

Storage:

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

P403: Store in a well-ventilated place.

HAZARDS NOT OTHERWISE CLASSIFIED:

Liquid can cause burns similar to frostbite.

May displace oxygen and cause rapid suffocation.

May form explosive mixtures with air.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
2,3,3,3 - Tetrafluoropropene (R1234yf)	92.857	754-12-1
Additive	-	Proprietary

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, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

SKIN: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

INGESTION: If swallowed, DO NOT induce vomiting. Call a physician or poison control center immediately. Rinse mouth with plenty of water. If victim is fully conscious, give a small glass of water. 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

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

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Dry chemical, CO₂, foam, fog or water spray.

HAZARDOUS COMBUSTION PRODUCTS: Oxides of carbon, hydrogen fluoride, carbonyl fluoride.

FIRE FIGHTING PROCEDURES: Standard procedure for chemical fires. Clear fire area of all non-emergency personnel. Keep adjacent containers cool by spraying with water. Will float and can be reignited on surface water. The vapor is heavier than air, spreads along the ground and distant ignition is possible.

FIRE FIGHTING EQUIPMENT: Proper protective equipment including chemical resistant gloves are to be worn; chemical resistant suit is indicated if large contact with spilled product is expected. Self-Contained Breathing Apparatus must be worn when approaching a fire in a confined space. Select fire fighter's clothing approved to relevant Standards (e.g. NFPA 1851; ISO 11999; EN469).

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Contain and soak up spill with absorbent material. Place residues in a suitable, sealed and labeled container.

LARGE SPILL: LARGE SPILLS: Shut off leak if safe to do so. Contain spill with inert, absorbent material. Reclaim into recovery or salvage drums or vacuum truck for proper disposal.

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: Prevent contamination of water. Prevent material from entering drains or watercourses using sand, earth or other appropriate barriers. Do not flush into surface water or sanitary sewer system.

GENERAL PROCEDURES: Do not touch or walk through spilled material. Remove all possible sources of ignition. Ensure adequate ventilation. Use appropriate personal protective equipment.

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

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Avoid breathing of or direct contact with material. Only use in well ventilated areas. Wash thoroughly after handling.

HANDLING: Avoid contact with skin, eyes and clothing. Do not empty into drains.

STORAGE: Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems. Keep container tightly closed in a dry and well-ventilated place. Keep away from incompatible materials. Keep away from open flames, hot surfaces and sources of ignition. Keep away from direct sunlight.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear chemical splash goggles. Wear a full face shield where splashing is likely.

SKIN: Wear chemically resistant gloves.

RESPIRATORY: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product, and the safe working limits of the selected respirator.

PROTECTIVE CLOTHING: Wear protective clothing appropriate to the risk of exposure.

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: Clear.

PHYSICAL STATE COMMENTS: Compressed liquefied gas.

pH: Not Available.

FLASH POINT AND METHOD: 167°C/332.6°F.

FLAMMABLE LIMITS: Not Available.

AUTOIGNITION TEMPERATURE: Not Available.

VAPOR PRESSURE: Not Available.

VAPOR DENSITY: Not Available.

BOILING POINT: Not Available.

FREEZING POINT: Not Available.

POUR POINT: Not Available.

SOLUBILITY IN WATER: Partially Soluble.

DENSITY: 0.91 g/cm³.

10. STABILITY AND REACTIVITY

REACTIVITY: Stable under normal conditions of use.

STABILITY: Stable under normal conditions.

CONDITIONS TO AVOID: Extreme temperatures and direct sunlight.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon oxides. Hydrogen fluoride and carbonyl fluoride if decomposition occurs at temperatures >250°C/482°F.

INCOMPATIBLE MATERIALS: Strong oxidizers. May react violently with alkaline-earth and alkali metals.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

DERMAL LD₅₀: No data available.

ORAL LD₅₀: No data available.

INHALATION LC₅₀: No data available.

NOTES: No data available.

SKIN CORROSION/IRRITATION: Not classified based on available information.

SERIOUS EYE DAMAGE/IRRITATION: Not classified based on available information.

RESPIRATORY OR SKIN SENSITISATION: Not classified based on available information.

GERM CELL MUTAGENICITY: None expected.

CARCINOGENICITY

NOTES: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC, NTP, ACGIH or OSHA.

REPRODUCTIVE TOXICITY: None expected.

STOT-SINGLE EXPOSURE: No data available.

STOT-REPEATED EXPOSURE: No data available.

ASPIRATION HAZARD: Not classified as an aspiration hazard.

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: Not Available.

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

CHEMICAL FATE INFORMATION: Not 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: Liquefied gas, flammable, n.o.s. (2,3,3,3-Tetrafluoroprop-1-ene)

PRIMARY HAZARD CLASS/DIVISION: 2.1

UN/NA NUMBER: UN3161

PACKING GROUP: N/A

PLACARDS: Flammable Gas

AIR (ICAO/IATA)

SHIPPING NAME: Liquefied gas, flammable, n.o.s. (2,3,3,3-Tetrafluoroprop-1-ene)

UN/NA NUMBER: UN3161

PRIMARY HAZARD CLASS/DIVISION: 2.1

PACKING GROUP: N/A

PLACARDS: Flammable Gas

VESSEL (IMO/IMDG)

SHIPPING NAME: Liquefied gas, flammable, n.o.s. (2,3,3,3-Tetrafluoroprop-1-ene)

UN/NA NUMBER: UN3161

PRIMARY HAZARD CLASS/DIVISION: 2.1

PACKING GROUP: N/A

PLACARDS: Flammable Gas

15. REGULATORY INFORMATION

UNITED STATES**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

311/312 HAZARD CATEGORIES: Delayed Health

311/312 PHYSICAL HAZARDS: Flammable Gases, Gases Under Pressure

313 REPORTABLE INGREDIENTS: None.

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

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

CERCLA RQ: Not Applicable.

CALIFORNIA PROPOSITION 65: This product does not require a warning under California Prop. 65.**COMMENTS**

Global Chemical Inventories:

Canada (DSL) - All components are listed or exempt.

EEC ELINCS - All components are listed or exempt.

Japan (ENCS) - All components are listed or exempt.

Japan (ISHL) - All components are listed or exempt.

KECI Annex1 - All components are listed or exempt.

Philippines - All components are listed or exempt.

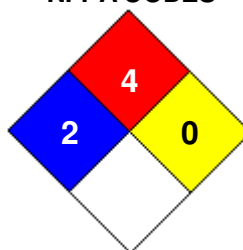
Taiwan - All components are listed or exempt.

US (TSCA) - All components listed or exempt.

Vietnam - All components are listed or exempt.

16. OTHER INFORMATION**REASON FOR ISSUE:** Original Version**APPROVED BY:** Ginger Stewart**PREPARED BY:**C. Cardenas **Date Revised:**03/24/2022**REVISION SUMMARY:** This SDS replaces the 10/09/2020 SDS.**HMIS RATING**

HEALTH	<input type="checkbox"/>	2
FLAMMABILITY	<input type="checkbox"/>	4
PHYSICAL HAZARD	<input type="checkbox"/>	3
PERSONAL PROTECTION	<input type="checkbox"/>	

NFPA CODES

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