



SAFETY DATA SHEET

Date Prepared : 04/21/2023

R-1234yf Universal POE 68 Oil

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: R-1234yf Universal POE 68 Oil
PRODUCT CODE: BLA017

DISTRIBUTOR

B'laster LLC
 8500 Sweet Valley Drive
 Valley View, OH 44125
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 LABEL

This product is not classified as hazardous according to 29CFR 1910.1200.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Polyol Ester	100	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. Get medical attention, if irritation persists.

SKIN: Immediately flush skin with plenty of water. Remove clothing. Get medical attention if irritation occurs. Wash 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 my 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.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: May cause eye irritation.

SKIN: May cause skin irritation.

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-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: 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

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.

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.

APPEARANCE: Clear.

COLOR: Clear to faint yellow.

PHYSICAL STATE COMMENTS: Clear, bright, viscous.

pH: Not Available.

FLASH POINT AND METHOD: >200°F (93°C).

FLAMMABLE LIMITS: Not Available.

AUTOIGNITION TEMPERATURE: Not Available.

POUR POINT: -39°C.

DENSITY: 0.964 at 59°F (15°C).

VISCOSITY #1: 68 cSt at 104°F (40°C).

VISCOSITY #2: 9.1 cSt at 212°F (100°C).

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: Oxides of carbon.

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

11. TOXICOLOGICAL INFORMATION

ACUTE

DERMAL LD₅₀: Not Available

ORAL LD₅₀: Not Available

EYE EFFECTS: Minimal irritation.

SKIN EFFECTS: Minimal irritation.

CARCINOGENICITY

Notes: Not Available

REPEATED DOSE EFFECTS: Repeated or prolonged skin exposure may cause dermatitis.

IRRITATION: Not a primary irritant.

SENSITIZATION: Not Available

GENETIC EFFECTS: Not Available

REPRODUCTIVE EFFECTS: Not Available

TARGET ORGANS: Not Available

MUTAGENICITY: Not Available

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.

Notes: Not Available

CHEMICAL FATE INFORMATION: Readily biodegradable.

13. DISPOSAL CONSIDERATIONS

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

PRODUCT DISPOSAL: The preferred options for disposal include reuse, recycling, co-processing, finding a use for by-product, incineration or other thermal destruction at licensed facilities.

EMPTY CONTAINER: Clean container thoroughly and dispose to licensed disposal contractor. Do not weld, cut, or braze empty containers, or allow product residue to come in contact with other sources of ignition as they may contain residue which could ignite.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Not regulated for Transport

AIR (ICAO/IATA)

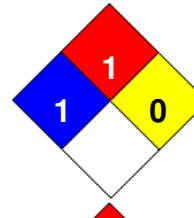
SHIPPING NAME: Not regulated for Transport

VESSEL (IMO/IMDG)

SHIPPING NAME: Not regulated for Transport

CANADA TRANSPORT OF DANGEROUS GOODS**SHIPPING NAME:** Not regulated for Transport**15. REGULATORY INFORMATION****UNITED STATES****TSCA (TOXIC SUBSTANCE CONTROL ACT)****TSCA STATUS:** All components listed or exempt.**OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)****29 CFR1910.119--PROCESS SAFETY MANAGEMENT OF HIGHLY HAZARDOUS CHEMICALS:** Contains no PSM ingredients at detectable levels.**CANADA****DOMESTIC SUBSTANCE LIST (INVENTORY):** All components are listed or exempt.**16. OTHER INFORMATION****REASON FOR ISSUE:** Original Version.**APPROVED BY:** Ginger Steward**PREPARED BY:** C. Cardenas **Date Prepared:** 04/21/2023**HMIS RATING**

HEALTH	<input type="checkbox"/>	1
FLAMMABILITY	<input checked="" 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.