



1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Benzenemethanol, 4-ethenyl- α,α -bis(trifluoromethyl)- (CAS 2386-82-5)

AKA: 4-HFIP Styrene, 4-(1,1,1,3,3,3-Hexafluoro-2-propanol)styrene, 4-(1,1,1,3,3,3-Hexafluoro-2-hydroxy-2-propyl)styrene

Formula: $C_{11} H_8 F_6 O$

Recommended Use: Research & Development; **Not listed on TSCA**

Uses Advised Against:

MANUFACTURER

HALOCARBON PRODUCTS CORPORATION

1100 Dittman Court

North Augusta, SC

Website: www.halocarbon.com

Email: sds@halocarbon.com

Emergency CHEMTREC Phone: 800 424-9300 United States 001-703-527-3887 International & Maritime

Emergency Number: (803)278-3504

Customer Service & Sales (470)419-6364

Prepared by: MSDS Coordinator

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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

Skin irritation (Category 2), H315

Causes serious eye damage, H318

May cause respiratory irritation, H335

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word DANGER

Hazard statement(s)

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage. H335

May cause respiratory irritation.

Precautionary statement(s)

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.
 P280 Wear protective gloves/ eye protection/ face protection.
 P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
 P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P332 + P313 If skin irritation occurs: Get medical advice/ attention.
 P337 + P313 If eye irritation persists: Get medical advice/ attention.
 P362 Take off contaminated clothing and wash before reuse.
 P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
 P405 Store locked up.
 P501 Dispose of contents/ container to an approved waste disposal plant.
2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components	CAS#	OSHA PEL	ACGIH TLV	Other Limits
Benzenemethanol, 4-ethenyl- α,α -bis (trifluoromethyl)-	2386-82-5	None	None	None

OSHA HAZARD RATING:

This product contains the following toxic chemical(s) subject to Section 313 title III reporting requirements (40 CFR Part 372).

None

4. FIRST AID MEASURES

Inhalation: Remove to fresh air. Get medical attention immediately. If breathing has stopped give artificial respiration if necessary. If breathing is difficult administer oxygen by authorized personnel only until person is able to breathe easily.

Skin: Wash affected area immediately for 15 minutes. Remove contaminated clothing and shoes. Seek medical help.

Eye: Flush eyes with plenty of water for at least 15 minutes. Get medical help immediately

Oral: If swallowed get medical attention.

Other Health hazards: No information available.

5. FIREFIGHTING MEASURES

Flash Point/Method: NA Autoignition Temp: Not determined

Flammability Limits in Air LEL: Not determined UEL: Not determined

Extinguishing Media: Use methods appropriate for surroundings.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin or eyes.

Unusual fire and explosion Hazards: Thermal decomposition products may be toxic and corrosive.

6. ACCIDENTAL RELEASE MEASURES

Spill, Leak or Release: Wear self-contained breathing apparatus appropriate shoes and gloves. If spilled evacuate area; absorb on vermiculite or sand, pick up and place in appropriate container. Hold for disposal

Waste disposal: Dispose in accordance with all federal, state and local regulations.

7. HANDLING AND STORAGE

Precautions for safe handling:

Avoid contact with skin and eyes. Provide appropriate exhaust ventilation.

Conditions for safe storage:

Keep container tightly closed in a dry and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory: Under conditions of heavy exposure, use NIOSH approved respirator. Self-contained breathing apparatus for emergency use.

Ventilation: Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

Eye protection: Safety glasses or goggles.

Gloves: Wear appropriate chemical resistant gloves.

Other equipment: Eyewash and quick drench shower facilities should be available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Liquid

Appearance & Odor: colorless to light yellow.

Boiling point: 68-70°C @ 6mm Hg

Vapor Pressure: Not determined

Melting point: Not determined

Vapor Density: Not available

Specific Gravity (H₂O=1): Not determined

Solubility in Water: Not Soluble

10. STABILITY AND REACTIVITY

Unstable Conditions to Avoid: Protect from physical damage and heat

Stable

Incompatibility (materials to avoid): strong acids, bases, oxidizing agents, alkali metals

Hazardous Combustion or Decomposition Products: Includes toxic fumes of carbon dioxide, carbon monoxide, hydrogen fluoride.

Hazardous Polymerization: May occur Will not occur

Conditions to Avoid: N/A

11. TOXICOLOGICAL INFORMATION

To the best of our knowledge no information is available regarding the health hazards and toxicological properties of this product.

Material may be destructive to tissue of the mucous membrane and upper respiratory tract. Acute exposure may cause nose, throat and lung irritation. Exposure to eyes in the case of other fluorinated alcohols such as HFIP has been known to cause blindness, and eye corrosion with corneal and conjunctival ulceration. Material may be corrosive upon contact with skin.

Primary Routes of Entry: Inhalation Skin Eyes Oral

Carcinogenicity Listing: [No] NTP [No] IARC [No] OSHA

[No] Other

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Offer surplus and non-recyclable solutions to a licensed disposal company

14. TRANSPORT INFORMATION

Hazardous material/Dangerous Goods Shipping Regulations

U.S. (49 CFR): Proper Shipping Name : Corrosive liquid, N.O.S.
(Benzenemethanol, 4-ethenyl- α,α -bis(trifluoromethyl)-)
Hazard Class: 8 ID No. UN 1760

Packing Group: II

IATA: Proper Shipping Name : Corrosive liquid, N.O.S.
(Benzenemethanol, 4-ethenyl- α,α -bis(trifluoromethyl)-)
Hazard Class: 8 ID No. UN 1760

Packing Group: II

IMDG: Proper Shipping Name : Corrosive liquid, N.O.S.
(Benzenemethanol, 4-ethenyl- α,α -bis(trifluoromethyl)-)
Hazard Class: 8 ID No. UN 1760

Packing Group: II

15. REGULATORY INFORMATION

Eye irritation

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

It is not listed on TSCA inventory. For R&D purposes only.

16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and should be used as a guide only. Halocarbon shall not be held liable for any damages resulting from handling this product.

Effective: Oct 2nd, 2017; corrected UN Oct 24,2017