



Name: HFIP or 1,1,1,3,3,3-Hexafluoro-2-Propanol
 Code: 1-270700-500, 1-270701-200, 1-270702-200, 1-270703-200, 1-270704-200

..... **SAFETY DATA SHEET**

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

- 1.1 Product Identifier
 - Name HFIP or 1,1,1,3,3,3-Hexafluoro-2-Propanol
 - Code 1-270700-500, 1-270701-200, 1-270702-200, 1-270703-200, 1-270704-200
- 1.2 Use of Substance/Mixture
 - Use Analytical Reagent for Gas Chromatography
- 1.3 Details of Manufacturer/Supplier
 - Company Regis Technologies, Inc.
 8210 N. Austin Avenue
 Morton Grove, IL 60053
 847-967-6000; 800-323-8144 (toll free)
 Email: cservice@registech.com
 www.registech.com
- 1.4 Emergency Telephone
 - INFOTRAC 800-535-5053 [U.S.A.]

SECTION 2 HAZARDS IDENTIFICATION

- 2.1 Classification of the Substance or Mixture
 - GHS Classification

Acute Toxicity (oral)	Category 4	H302
Acute Toxicity (inhalation)	Category 4	H332
Skin Corrosion / Irritation	Category 1B	H314
Serious Eye Damage / Irritation	Category 1	H318

GHS Label Elements
 Pictograms or hazard symbols



Signal Word Danger

Hazard Statement
 H302+ H332 – Harmful if swallowed or inhaled.
 H314 – Causes severe skin burns and eye damage.
 H318 – Causes serious eye damage.

Precautionary Statements
 [Prevention]
 P261 – Avoid breathing vapors or mist.
 P261 – Wash skin thoroughly after handling.
 P271 – Use only outdoors or in a well-ventilated area.
 P280 – Wear protective gloves/eye protection/face protection.
 [Response]
 P301+P330+P331 – IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
 P303+P361+P353 – IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
 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.

Abbreviations: NA—not applicable; NE—not established; U—unknown/No data available; NL—not listed; N—no; Y—yes.



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[Storage] P314 – Get medical advice/attention if you feel unwell.
 P402+P404 – Store in a dry place. Store in a closed container.
 P403+P235 – Store in a well-ventilated place. Keep cool.
 [Disposal] P501 – Dispose of contents/ container to an approved waste disposal plant.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Name HFIP or 1,1,1,3,3,3-Hexafluoro-2-Propanol
 Synonyms Hexafluoroisopropanol; Hexafluoro-2-propanol

Hazardous components

Component	Classification	Concentration
1,1,1,3,3,3-Hexafluoro-2-Propanol	Acute Tox. 4; Skin Corr. 1B; Eye Dam. 1; H302 + H332 ; H314; H318	≥ 99.0 %
CAS No. 920-66-1		
EC No. 213-059-4		
Formula C ₃ H ₂ F ₆ O		
Molecular Mass 168.04		

For full test of the H-Statements mentioned in this Section, see Section 16.

SECTION 4 FIRST AID MEASURES

4.1 Description of first aid measures

Eye contact: Rinse eyes with plenty of water for at least 15 minutes; lift eyelids occasionally. If irritation persists, consult physician.
 Skin contact: Immediately remove contaminated clothing and shoes, then wash skin with soap and plenty of water. If irritation persists, consult physician.
 Inhalation: Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and keep person warm and at rest. Consult physician.
 Ingestion: Give large amounts of water or milk (two glasses at most). Avoid vomiting. Consult physician immediately. Do not attempt to neutralize.
 Physician note: Symptomatic and supportive care. There is no specific antidote.

4.2 Most important symptoms and effects, both acute and delayed.
 Causes severe skin burns and eye damage. Risk of blindness. Shortness of breath. Pupil dilation.

4.3 Indication of immediate medical attention and special treatment needed.
 No information available.

SECTION 5 FIRE-FIGHTING MEASURES

5.1 Suitable Extinguishing Media
 Carbon dioxide, dry chemical powder, foam.

5.2 Specific hazards arising from the chemical.
 Corrosive liquid and vapor.
 Water spray may be used to cool fire-exposed containers. Emits toxic fumes under fire conditions.
 Produces carbon oxides, hydrogen fluoride upon combustion.

5.3 Advice for fire-fighters
 Wear personal protective equipment for corrosive organic/acidic vapor conditions. Wear self-contained breathing apparatus (SCBA) if necessary.



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Emergency Contact:
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SECTION 6 ACCIDENTAL RELEASE MEASURES.....

- 6.1 Personal precautions, protective equipment, and emergency procedures
 For non-emergency personnel - Do not breath vapors or mists. Avoid material contact. Evacuate unnecessary personnel from area, observe emergency procedures, consult an expert.
 For emergency responders – Protective equipment for corrosive organic/acidic vapor conditions. See Section 8.3.
- 6.2 Environmental precautions
 Prevent material from entering drains.
- 6.3 Methods of clean up
 Evacuate unnecessary people from area. Isolate spilled material.
 Ventilate area. Eliminate all ignition sources. Use spark proof tools.
 If neat or in solution, mix with sand or similar inert adsorbent material or spill pillow.
 Sweep up, seal in appropriate hazardous waste container, and hold for proper waste disposal.
 Keep out of water supplies and sewers. Wash spill site after material pickup is complete.

SECTION 7 HANDLING AND STORAGE.....

- 7.1 Safe Handling Precautions
 Wear suitable protective equipment to avoid contact with skin, eyes, or inhalation of corrosive organic/acidic vapors.
 Wash thoroughly after handling. Immediately remove contaminated clothing.
 Handle in a dry, well ventilated area. Use local exhaust if vapor can be generated.
 Keep away from ignition sources. Take precautionary measures against static discharge.
 Handle under nitrogen.
- 7.2 Storage Conditions
 Store under inert gas in a tightly sealed container. Store in a cool, dry place suitable for corrosive materials, away from incompatibilities.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION.....

- 8.1 Control parameters
 Exposure limits No data available
 Environmental Do not empty into drains.
- 8.2 Appropriate engineering controls
 Safety shower and eye wash
 Local exhaust and mechanical ventilation required. Hood recommended. Fume scrubber.
- 8.3 Personal protection
 Eye/Face Chemical safety eyewear or goggles
 Hand Compatible chemical-resistant gloves: Rubber (e.g., natural rubber, neoprene, nitrile, or equivalent), Silver Shield®, Viton®
 Respiratory NIOSH/MSHA or European Standards approved respirator for corrosive organic/acidic vapor if exposure limits are exceeded or irritation or other symptoms are experienced.
 Dermal (not hand) Protective Clothing (e.g., lab coat)--flame retardant anti-static material recommended.
 Hygiene Avoid inhalation, ingestion; contact with eyes, skin, and clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse. Discard contaminated footwear.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 Information on physical and chemical data

Form	liquid
Appearance	clear, colorless
Odor	strong

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15.2 Chemical Inventory Lists

Reviews, Standards, and Regulations

..... HFIP or 1,1,1,3,3,3-Hexafluoro-2-Propanol
 CAS number 920-66-1
 TSCA: Y
 This compound is sold strictly for FDA or research and development use.....
 EINECS:..... Y
 Number 213-059-4
 CERCLA [Section 103 (40 CFR 302.4)]:..... NL
 RQ (lbs) NA
 RCRA Waste Code..... NA
 OSHA Process Safety [29 CFR 1910.119]: NL
 TQ (lbs)..... NA
 Clean Air Act
 [Section 112r (40 CFR 68)]:..... NL
 TQ (lbs)..... NA
 Contains Ozone Depleters (Class I or Class II) N
 SARA Title III Notification [40 CFR 302.4]:
 Section 302/304 (EHS) Ingredient
 [40 CFR 355.3] NL
 TPQ (lbs)..... NA
 RQ (lbs) NA
 Section 313 Ingredient [40 CFR 372.65] NL
 SARA Hazards Acute.....Y Chronic..... N Fire.....N Pressure..... N ReactivityN
 State Lists: NL
 States..... NL
 On CA 65 Significant Risk Level..... NL

SECTION 16 **OTHER INFORMATION**

16.1 Full test of H-Statements referred to under Section 2 and 3.

Acute Tox.	Acute Toxicity
Eye Dam.	Serious eye damage
H302 + H332	Harmful if swallowed or if inhaled
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
Skin Corr.	Skin corrosion

The above information is believed to be correct to the best of our present state knowledge, but does not purport to be all-inclusive and shall be used only as a guide. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.

Prepared by: **Regis Technologies**

This is the last page of this MSDS.