

# SAFETY DATA SHEET

according to 1907/2006/EC, Article 3

Revision date: 30/03 /2020

## SECTION 1: Identification of the substance/mixture and of the company/undertaking.

### 1.1 Product identifiers

**Product name** 1,1,1,3,3,3- Hexafluoro-2- propanol  
**Product Number** PSR42933  
**Brand** PureSynth research chemicals  
**CAS No.** 920-66-1

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** : Laboratory Chemicals.

### 1.3 Details of the supplier of the safety data sheet

**Company** PureSynth Research Chemicals Pvt. Ltd.  
A-27, A.P.I.E, Hyderabad, Telangana-500037

### 1.4 Emergency telephone number

**Worldwide Helpline No.:** 1800-120-1234-34

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008

Acute toxicity (Oral) Category 4  
Acute toxicity (Inhalation) Category 4  
Skin corrosion/irritation Category 1C  
Serious eye damage/eye irritation Category 1

### 2.2 Label elements

#### Labelling according Regulation (EC) No 1272/2008

#### Pictogram



#### Signal word

Danger

#### Hazard statement(s)

H302+H332

Harmful if swallowed or if inhaled.

H314

Causes severe skin burns and eye damage.

#### Precautionary statement(s)

P260

Do not breathe dusts or mists.

P280

Wear protective gloves, protective clothing, face protection.

P301+P330+P331+P310

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
Immediately call a POISON CENTER or doctor.

P303+P361+P353+P310+P363

IF ON SKIN (or hair): Take off immediately all contaminated clothing.  
Rinse skin with water or shower. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse.

|                                |                                                                                                                                                                              |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P304+P340+P310                 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.                                                       |
| P305+P351+P338+P310            | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor. |
| Supplemental Hazard Statements | None                                                                                                                                                                         |

**2.3 Other hazards** None

### SECTION 3: Composition / information on ingredients

#### 3.1 Substances

| Common names & Synonyms           | Mol. formula                                   | CAS number    |
|-----------------------------------|------------------------------------------------|---------------|
| Hexafluoroisopropyl alcohol       | C <sub>3</sub> H <sub>2</sub> F <sub>6</sub> O | 920-66-1      |
| Component                         | Classification                                 | Concentration |
| 1,1,1,3,3,3-Hexafluoro-2-propanol | -                                              | -             |

### SECTION 4: First aid measures

#### Description of first aid measures

|                                                                                   |                                                                                                                                                                           |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General advice</b>                                                             | Consult a physician. Show this safety data sheet to the doctor in attendance.                                                                                             |
| <b>If inhaled</b>                                                                 | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.                                |
| <b>In case of skin contact</b>                                                    | Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/physician.                   |
| <b>In case of eye contact</b>                                                     | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician |
| <b>If swallowed</b>                                                               | Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.                                                                                |
| <b>Most important symptoms and effects, both acute and delayed</b>                | The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11                                                       |
| <b>Indication of any immediate medical attention and special treatment needed</b> | No data available                                                                                                                                                         |

### SECTION 5: Firefighting measures

|                                                                   |                                                                                                                                                      |
|-------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Extinguishing media</b><br><b>Suitable extinguishing media</b> | Dry chemical, foam, water spray, carbon dioxide                                                                                                      |
| <b>Special hazards arising from the substance or mixture</b>      | Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume. Carbon dioxide, Carbon monoxide, Hydrogen fluoride |

**Advice for firefighters**

Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so. When extinguishing fire, be sure to wear personal protective equipment

**Further information**

No data available

## SECTION 6: Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc

**Environmental precautions**

Prevent product from entering drains

**Methods and materials for containment and cleaning up**

Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust). In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

**Reference to other sections**

For disposal see section 13.

## SECTION 7: Handling and storage

**Precautions for safe handling**

Handling is performed in a well-ventilated place. Wear suitable protective equipment. Prevent generation of vapour or mist. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generated. Avoid contact with skin, eyes and clothing.

**Conditions for safe storage, including any incompatibilities**

Keep container tightly closed. Store locked up. Store away from incompatible materials such as oxidizing agents. Recommended storage temperature room temperature.

**Specific end use(s)**

No further relevant information available.

## SECTION 8: Exposure controls / Personal protection

**Control parameters**

No data available

**Exposure controls**

Install a closed system or local exhaust. Also install safety shower and eye bath.

**Appropriate engineering controls**

No data available

**Personal protective equipment:**

**Eye / face protection**

Safety goggles. A face-shield, if the situation requires

**Skin protection**

Impervious gloves.

**Body Protection**

Impervious protective clothing. Protective boots, if the situation requires.

**Respiratory protection**

Half or full face piece respirator, self-contained breathing apparatus (SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.

Control of environmental exposure

Do not let product enter drains.

## SECTION 9: Physical and chemical properties

|                                                       |                                                                                |
|-------------------------------------------------------|--------------------------------------------------------------------------------|
| <b>Appearance</b>                                     | Form: Liquid                                                                   |
|                                                       | Colour: Colorless - Almost colorless                                           |
| <b>Odour</b>                                          | Pungent                                                                        |
| <b>pH - Value</b>                                     | No data available                                                              |
| <b>Density</b>                                        | No data available                                                              |
| <b>Boiling Point</b>                                  | 58°C                                                                           |
| <b>Melting Point</b>                                  | -4°C                                                                           |
| <b>Solubility in water</b>                            | Soluble                                                                        |
| <b>Flash point</b>                                    | No data available                                                              |
| <b>Vapour pressure</b>                                | 20.7kPa/25°C                                                                   |
| <b>Auto -ignition temperature</b>                     | No data available                                                              |
| <b>Vapour density</b>                                 | No data available                                                              |
| <b>Flammability (solid, gas)</b>                      | No data available                                                              |
| <b>Evaporation rate</b>                               | No data available                                                              |
| <b>Partition coefficient: n- octanol / water</b>      | No data available                                                              |
| <b>Viscosity</b>                                      | Dynamic Viscosity: 158mPa · s (25°C)<br>Kinematic viscosity: No data available |
| <b>Explosive properties</b>                           | No data available                                                              |
| <b>Upper / lower flammability or explosive limits</b> | No data available                                                              |
| <b>Oxidizing properties</b>                           | No data available                                                              |
| <b>Other safety information:</b>                      | No data available                                                              |

## SECTION 10: Stability and reactivity

|                                           |                                                    |
|-------------------------------------------|----------------------------------------------------|
| <b>Reactivity</b>                         | No data available                                  |
| <b>Chemical stability</b>                 | Stable under recommended storage conditions        |
| <b>Possibility of hazardous reactions</b> | No data available                                  |
| <b>Condition to avoid</b>                 | No data available                                  |
| <b>Incompatible materials</b>             | Oxidizing agents, Strong bases                     |
| <b>Hazardous decomposition products</b>   | Carbon dioxide, Carbon monoxide, Hydrogen fluoride |

## SECTION 11: Toxicological information

|                                          |                                                                                                         |
|------------------------------------------|---------------------------------------------------------------------------------------------------------|
| <b>Acute toxicity</b>                    | orl-rat LD50:1500 mg/kg<br>ihl-rat LC50:1974 ppm/4H<br>ivn-mus LD50:180 mg/kg<br>ipr-mus LD50:300 mg/kg |
| <b>Skin corrosion/irritation</b>         | No data available                                                                                       |
| <b>Serious eye damage/eye irritation</b> | No data available                                                                                       |
| <b>Respiratory or skin sensitization</b> | No data available                                                                                       |
| <b>Germ cell mutagenicity</b>            | No data available                                                                                       |
| <b>Carcinogenicity</b>                   | No data available                                                                                       |

|                                                           |                   |
|-----------------------------------------------------------|-------------------|
| <b>Reproductive toxicity</b>                              | No data available |
| <b>Specific target organ toxicity - single exposure</b>   | No data available |
| <b>Specific target organ toxicity - repeated exposure</b> | No data available |
| <b>Aspiration hazard</b>                                  | No data available |
| <b>Additional Information</b>                             | No data available |

## SECTION 12: Ecological information

### Toxicity

|                                           |                                                                                |
|-------------------------------------------|--------------------------------------------------------------------------------|
| Toxicity to fish                          | 48h LC50:270 mg/L (Oryzias latipes)<br>96h LC50:244 mg/L (Pimephales promelas) |
| Toxicity to other aquatic invertebrates   | No data available                                                              |
| Toxicity to algae                         | No data available                                                              |
| Toxicity to bacteria                      | No data available                                                              |
| <b>Persistence and degradability</b>      | No data available                                                              |
| <b>Bioaccumulative potential</b>          | 1.1 - 1.4 (conc. 1 mg/L) , 1.3 - 2.7 (conc. 0.1 mg/L)                          |
| <b>Mobility in soil</b>                   | No data available                                                              |
| <b>Results of PBT and vPvB assessment</b> | No data available                                                              |
| <b>Other adverse effects</b>              | No data available                                                              |

## SECTION 13: Disposal considerations

|                                |                                                                                                                                                                                                                                                                                                                                              |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Waste treatment methods</b> | Offer surplus and non-recyclable solutions to a licensed disposal company. Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself. |
| <b>Products</b>                |                                                                                                                                                                                                                                                                                                                                              |
| <b>Contaminated packaging</b>  | Dispose of as unused product.                                                                                                                                                                                                                                                                                                                |

## SECTION 14: Transport information

|                  | UN no. | UN proper shipping name | Hazard Class(es) | Packaging group | Marine Pollutant |
|------------------|--------|-------------------------|------------------|-----------------|------------------|
| <b>ADR / RID</b> | 1760   | Corrosive liquid, n.o.s | 8                | III             | No               |
| <b>IMDG</b>      | 1760   | Corrosive liquid, n.o.s | 8                | III             | No               |
| <b>IATA</b>      | 1760   | Corrosive liquid, n.o.s | 8                | III             | No               |

## SECTION 15: Regulatory information

### Safety, health and environmental regulations/legislation specific for the substance or mixture

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

### Chemical safety assessment

For this product a chemical safety assessment was not carried out.

## SECTION 16: Other information

The information in this SDS is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. The user must be determined suitability of this information for his application.