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Version number 1

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**\* SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name:** Hexafluoroisopropanol**Article number:** HFIP STD**EC number:**

213-059-4

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

No further relevant information available.

**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

DAIKIN INDUSTRIES, LTD. CHEMICALS DIVISION:

OSAKA UMEDA TWIN TOWERS SOUTH, 1-13-1 Umeda, Kita-ku, Osaka-shi, Osaka, 530-0001, Japan

Phone: +81-6-6147-9702 Fax: +81-6-6147-9807

**1.4 Emergency telephone number:** Japan: +81-6-6349-7521**\* SECTION 2: Hazard identification****2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

GHS05

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008:**

The substance is classified and labelled according to the CLP regulation.

**Signal word:** Danger**Hazard-determining components of labelling:**

1,1,1,3,3-Hexafluoro-2-propanol

**Precautionary statements:**

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P304+P340 IF INHALED: Remove person to fresh air and keep 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.

P310 Immediately call a POISON CENTER/doctor.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**\* SECTION 3: Composition/information on ingredients****Information on ingredients:**

CAS: 920-66-1 1,1,1,3,3-Hexafluoropropan-2-ol

≥99%

Repr. 2, H361; STOT RE 2, H373

Skin Corr. 1A, H314; Eye Dam. 1, H318

**Identification number(s)****EC number:** 213-059-4**\* SECTION 4: First aid measures****4.1 Description of first aid measures****General information:** Seek medical treatment.**After inhalation:** Supply fresh air; consult doctor in case of complaints.**After skin contact:**

Remove contaminated clothes immediately.

Immediately wash with water and soap and rinse thoroughly.

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**Trade name:** Hexafluoroisopropanol*Consult a doctor in case of complaints.***After eye contact:***Immediately rinse with a lot of water for several minutes. Remove contact lenses if possible. Continue rinsing.**Consult an ophthalmologist in case of complaints.***After swallowing:***Rinse mouth with water. Do not induce vomiting.**Consult a doctor in case of complaints.***4.2 Most important symptoms and effects, both acute and chronic:** No further relevant information available.**4.3 Indication of any immediate medical attention and special treatment needed:***No further relevant information available.***SECTION 5: Firefighting measures****5.1 Extinguishing media***Suitable extinguishing agents: Use fire extinguishing methods suitable for surrounding conditions.***5.2 Special hazards arising from the substance or mixture:***Formation of toxic gases is possible during heating or in case of fire.***5.3 Advice for firefighters:****Protective equipment:***Wear fully protective suit.**Wear self-contained breathing apparatus and protective suit.**Do not inhale explosion gases or combustion gases.***SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures:***Ensure adequate ventilation before entering the area.**Stay on the windward side.**Keep out unauthorized persons.**Wear appropriate protective devices (See Section 8 Exposure Controls/Personal Protection).**Avoid contact with eyes and skin.**Do not swallow the product.***6.2 Environmental precautions:** Prevent seepage into sewage system, workpits and cellars.**6.3 Methods and material for containment and cleaning up:***For a small amount of leakage: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders) or collect in an empty container that can be sealed tightly.**For a large amount of leakage: Enclose with banks to avoid outflow. Lead the leakage to a safe place and collect.***6.4 Reference to other sections:***See Section 7 for information on safe handling.**See Section 8 for information on personal protection equipment.**See Section 13 for disposal information.***SECTION 7: Handling and storage****7.1 Precautions for safe handling:***Ensure good ventilation/exhaustion at the workplace.**Do not handle until all safety precautions have been read and understood.***Information about fire - and explosion protection:** Keep ignition sources away - Do not smoke.**7.2 Conditions for safe storage, including any incompatibilities:****Storage****Requirements to be met by storerooms and receptacles:***Store in a cool and dry location.**Prevent any seepage into the ground.**Keep containers tightly sealed.***Information about storage in one common storage facility:***See section 10 for information on incompatible materials.***Further information about storage conditions:***Store in cool, dry conditions in well sealed receptacle.**Protect from heat and direct sunlight.**Store containers in a well ventilated area.*

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**Trade name:** Hexafluoroisopropanol*Store locked up.***7.3 Specific end use(s):** No further relevant information available.**\* SECTION 8: Exposure controls/personal protection****8.1 Control parameters** No further information available.**Ingredients with limit values that require monitoring at the workplace:** Not required.**DNELs:**Inhalative DNEL - worker 0.174 mg/m<sup>3</sup> (Estimate)**CAS: 920-66-1 1,1,1,3,3,3-Hexafluoro-2-propanol**Inhalative DNEL - consumer 0.174 mg/m<sup>3</sup> (Estimate)  
long-term exposure**8.2 Exposure controls****Appropriate engineering controls** No further data; see section 7.**Individual protection measures, such as personal protective equipment****General protective and hygienic measures:**

Wash hands before breaks and at the end of work.

Do not eat or drink while working.

Keep away from tobacco products.

**Respiratory protection:**

Use respiratory protective device with filters for organic and acid gas (or airline respirators in some cases) if formation of toxic gases is possible while the product is heated.

Use respiratory protective device with organic gas cartridge.

**Hand protection**

Protective gloves

**Material of gloves:** Rubber**Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye/face protection**

Safety glasses

**Body protection:** Protective work clothing**\* SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties****General Information****Physical state**

Liquid

**Colour:**

Colourless

**Odour:**

Unpleasant

**Odour threshold:**

Not determined.

**Melting point/freezing point:**

-4 °C

**Boiling point or initial boiling point and boiling range** 59 °C (0.1MPa)**Flammability**

Not applicable.

**Lower and upper explosion limit****Lower explosive limit:**

No further information available.

**Upper explosive limit:**

Not determined.

**Flash point:**

Not applicable.

**Auto-ignition temperature:**

No further information available.

**Decomposition temperature:**

No further information available.

Not determined.

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<b>pH at 20 °C</b>	6.1 (10% aq.)
<b>Viscosity:</b>	
<b>Kinematic viscosity</b>	<i>Not determined.</i>
<b>Dynamic:</b>	<i>Not determined.</i>
<b>Solubility</b>	
<b>water:</b>	<i>No further information available.</i>
<b>Partition coefficient n-octanol/water (log value)</b>	<i>No further information available.</i>
<b>Vapour pressure:</b>	<i>No further information available.</i>
<b>Vapour pressure:</b>	<i>No further information available.</i>
<b>Density and/or relative density</b>	
<b>Density at 20 °C:</b>	1.596 g/cm <sup>3</sup>
<b>Relative density</b>	<i>Not determined.</i>
<b>Vapour density</b>	<i>Not determined.</i>
<b>Particle characteristics</b>	<i>No further information available.</i>

**9.2 Other information:**

<b>Form:</b>	<i>Liquid</i>
<b>Ignition temperature:</b>	<i>Not determined.</i>
<b>Explosive properties:</b>	<i>Product does not present an explosion hazard.</i>
<b>Evaporation rate</b>	<i>Not determined.</i>

**Information with regard to physical hazard classes**

<b>Explosives</b>	<i>Not applicable</i>
<b>Flammable gases</b>	<i>Not applicable</i>
<b>Aerosols</b>	<i>Not applicable</i>
<b>Oxidising gases</b>	<i>Not applicable</i>
<b>Gases under pressure</b>	<i>Not applicable</i>
<b>Flammable liquids</b>	<i>Not applicable</i>
<b>Flammable solids</b>	<i>Not applicable</i>
<b>Self-reactive substances and mixtures</b>	<i>Not applicable</i>
<b>Pyrophoric liquids</b>	<i>Not applicable</i>
<b>Pyrophoric solids</b>	<i>Not applicable</i>
<b>Self-heating substances and mixtures</b>	<i>Not applicable</i>
<b>Substances and mixtures, which emit flammable gases in contact with water</b>	<i>Not applicable</i>
<b>Oxidising liquids</b>	<i>Not applicable</i>
<b>Oxidising solids</b>	<i>Not applicable</i>
<b>Organic peroxides</b>	<i>Not applicable</i>
<b>Corrosive to metals</b>	<i>Not applicable</i>
<b>Desensitised explosives</b>	<i>Not applicable</i>

**SECTION 10: Stability and reactivity****10.1 Reactivity** No further relevant information available.**10.2 Chemical stability****Thermal decomposition / conditions to be avoided:** To avoid thermal decomposition do not overheat.**10.3 Possibility of hazardous reactions:** No dangerous reactions known under normal conditions of use.**10.4 Conditions to avoid:** Keep away from heat, sparks, flame, high temperature.**10.5 Incompatible materials:**

Strong acids, strong alkalis, alkali metals, alkali earth metals, powdered aluminium, zinc, beryllium.

**10.6 Hazardous decomposition products:** Danger of toxic fluorine based pyrolysis products.**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Acute toxicity Based on available data, the classification criteria are not met.

**LD/LC50 values relevant for classification:****CAS: 920-66-1 1,1,1,3,3,3-Hexafluoro-2-propanol**

Oral LD50 600 mg/kg (Mouse)

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**Trade name:** Hexafluoroisopropanol**Inhalative LC50/4h 1974 ppm (Rat)****Primary irritant effect****Skin corrosion/irritation:**

Causes severe skin burns and eye damage.

**Serious eye damage/irritation:**

Causes serious eye damage.

**Respiratory or skin sensitisation:** No further information available.**Germ cell mutagenicity:** Based on available data, the classification criteria are not met.**Carcinogenicity:** No further information available.**Reproductive toxicity:** No further information available.**STOT-single exposure:** Based on available data, the classification criteria are not met.**STOT-repeated exposure:** No further information available.**Aspiration hazard:** No further information available.**Chronic study** No further information available.**Subacute to chronic toxicity:** No further information available.

## \* **SECTION 12: Ecological information**

### **12.1 Toxicity**

**Aquatic toxicity:****CAS: 920-66-1 1,1,1,3,3,3-Hexafluoro-2-propanol**

LC50/96h 244 mg/l (Fish)

LC50/48h 270 mg/l (Fish) (MITI 1992)

902-66-1 1,1,1,3,3,3,-Hexafluoro-2-propanol

LC50/48 h 270 mg/l (Japanese rice fish) (MITI 1992)

LC50/94 h 244 mg/l (fathead minnow)

### **12.2 Persistence and degradability:**

This product will persist in the environment. Handle with care in case of accidental release or disposal.

**CAS: 920-66-1 1,1,1,3,3,3-Hexafluoro-2-propanol**Biodegradation 0 % (Microorganisms) (OECD 301C)  
(MITI 1992)**12.3 Bioaccumulative potential:** No further relevant information available.**Bioconcentration factor (BCF)****CAS: 920-66-1 1,1,1,3,3,3-Hexafluoro-2-propanol**

BCF &lt; 2.7 (Fish)

**12.4 Mobility in soil:** No further relevant information available.**12.5 Results of PBT and vPvB assessment****PBT:** No further relevant information available.**vPvB:** No further relevant information available.

### **12.7 Other adverse effects:**

**Ecotoxicological effects:** no data**Additional ecological information:****General notes:** Must not reach sewage water or drainage ditch undiluted or unneutralised.

## **SECTION 13: Disposal considerations**

### **13.1 Waste treatment methods**

**Recommendation:**

Wear appropriate protective devices.

Disposal must be made according to official regulations.

### **Uncleaned packaging**

**Recommendation:**

Empty contaminated packagings thoroughly.

Disposal must be made according to official regulations.

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**Trade name:** Hexafluoroisopropanol**\* SECTION 14: Transport information****14.1 UN number or ID number****ADR, IMDG, IATA****UN1760****14.2 UN proper shipping name:****ADR, IMDG, IATA****CORROSIVE LIQUID, N.O.S.****14.3 Transport hazard class(es):****ADR, IMDG, IATA****Class:****8 Corrosive substances.****ADN/R Class:****Not applicable****14.4 Packing group:****ADR, IMDG, IATA****I****14.5 Environmental hazards:****Marine pollutant:****No****14.6 Special precautions for user:****Warning: Corrosive substances.****EMS Number:****F-A,S-B****14.7 Maritime transport in bulk according to IMO****instruments****Not applicable.****Transport/Additional information:****Avoid direct sunlight. Make sure of no damage, corrosion, leaks on the receptacles.****Take necessary measures for preventing cargo shift.****ADR****Limited quantities (LQ):****0****Excepted quantities (EQ)****Code: E0****Not permitted as Excepted Quantity****UN "Model Regulation":****UN 1760 CORROSIVE LIQUID, N.O.S., 8, I****\* SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****No further relevant information available.****Labelling according to Regulation (EC) No 1272/2008****The substance is classified and labelled according to the CLP regulation.****Hazard pictograms****GHS05****Signal word** Danger**Hazard-determining components of labelling:****1,1,1,3,3-Hexafluoro-2-propanol****Hazard statements****H314 Causes severe skin burns and eye damage.****Precautionary statements****P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].****P304+P340 IF INHALED: Remove person to fresh air and keep 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.****P310 Immediately call a POISON CENTER/doctor.****P405 Store locked up.****P501 Dispose of contents/container in accordance with local/regional/national/international regulations.****National regulations** No further information available.

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**Trade name:** Hexafluoroisopropanol**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**SECTION 16: Other information**

The product is for the industrial use only. We do not guarantee the safety in case the product is used for the other purposes. When using the product for health-care application or food/feed application, consult us in advance.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Department issuing SDS:** EHS Department**Contact:** <https://www.daikin.com/>**Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

DNEL: Derived No-Effect Level (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

\* Data compared to the previous version altered.