



Version 2.0 – Revision date 21/03/2022

EU SDS – NO COUNTRY-SPECIFIC DATA

### 1. IDENTIFICATION OF SUBSTANCE AND COMPANY DETAILS

#### 1.1 Product Identifier

Product name: 25% w/v Hexafluoroisopropanol

 Product number:
 MD2-100(250)-182

 EC No.
 See section 3

 REACH registration No.
 See section 3

 CAS No.:
 See section 3

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

Identified uses Research and development

Uses advised against Not for drug, household or uses other than those identified

1.3 Details of the supplier of the Safety Datasheet

Supplier Molecular Dimensions Limited
Address Calibre Scientific UK
Unit 5A R-Fyolution @

The Advanced Manufacturing Park Selden Way, Rotherham

S60 5XA

Telephone: +44 (0)11422 42257

Email address enquiries@moleculardimensions.com

1.4 Emergency telephone number Emergency phone number

2. HAZARDS IDENTIFICATION

### 2.1 Classification of substance or mixture

# Classification according to Regulation (EC) No. 1272/2008 [CLP]

H302 Harmful if swallowed

H314 Causes severe skin burns and eye damage H361D Suspected of damaging the unborn child

### 2.2 Label elements

### Labelling according to Regulation (EC) No. 1277/2008 [CLP]

Pictogram(s):



# Hazard statement(s):

See section 2.1.

# Precautionary statement(s):

P260 Do not breathe dust/fume/gas/mist/vapours/spray

P280 Wear protective gloves/protective clothing/eye protection/face protection

P301+P312+P330 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth

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

P304+P340+P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician

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 or doctor/physician

# 2.3 Other hazards

No data available

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

# 3.1 Mixtures

Chemical	EC No.	REACH No.	CAS No.	Concentration	P-code(s)	H-code(s)
1,1,1,3,3,3-Hexafluoro-2-propanol	213-059-4	-	920-66-1	25%w/v	P260, P280, P301+P312+P330, P303+P361+P353,	H302, H314, H361D
					P304+P340+P310, P305+P351+P338, P310	

# 4. FIRST AID MEASURES

# 4.1 Description of first aid measures

# **General notes**

Consult a doctor. Show this safety datasheet to the doctor in attendance.

# **Following inhalation**Move to fresh air. If not breathing, give artificial respiration. Consult a doctor.

Following skin contact

# Take off contaminated clothing & shoes immediately. Wash off with soap & water. Consult a doctor.

Following eye contact

# Rinse thoroughly for at least 15 minutes. Consult a doctor.

Following ingestion

# Do NOT induce vomiting. Rinse mouth with water. Consult a doctor.

**Self-protection for first aider**Always use recommended PPE when treating patient.

# 4.2 Most important symptoms and effects, both acute and delayed

The most important known effects are detailed in section 2.2 and section 11  $\,$ 

# 4.3 Indication of any immediate medical attention and special treatment needed

# No data available

# 5. FIRE-FIGHTING METHODS

# 5.1 Extinguishing media

Use water spray, alcohol resistant foam, dry chemical or carbon dioxide.

# 5.2 Special hazards arising from the substance or mixture

# 5.3 Advice for firefighters

Wear breathing apparatus.



### 5. ACCIDENTAL RELEASE MEASURES

# 6.1 Personal precautions, protective equipment and emergency procedures

 $\label{thm:constraints} \mbox{Use personal protective equipment. Avoid breathing vapours. Evacuate personnel to safe areas.}$ 

#### 6.2 Environmental precautions

#### Do not let product enter drains

### 6.3 Methods and materials for containment and clean up

Use spill kit to contain spillage & use wet brushing to place in a suitable container for disposal.

# 6.4 Reference to any other sections

For disposal, see section 13

#### 7. HANDLING AND STORAGE

# 7.1 Precautions for safe handling

For precautions, see section 2.2

### 7.2 Conditions for safe storage, including any incompatibilities.

Store in cool place. Keep container tightly closed in well-ventilated place. Containers which are opened must be carefully resealed and stored upright to prevent leakage.

# 7.3 Specific end use

Apart from uses in Section 1.2, no other specific uses are stipulated.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

None of the constituent chemicals have workplace exposure limits.

# 8.2 Exposure controls

### 8.2.1 Appropriate engineering controls

Wash hands before work break and at the end of the day

#### 8.2.2 Personal protection

#### Eye/face protection

Face shield & safety specs.

#### **Skin Protection**

Nitrile gloves (splash protection only) and lab coat

### Respiratory protection

Use respirators and components tested and approved under appropriate government standards such as CEN (EU) as back up to engineering control

# **Environmental exposure controls**

Do not let product enter drains

# 9. PHYSICAL AND CHEMICAL PROPERTIES

a) Appearance b) Odour c) Odour threshold d) pH e) Melting point / freezing point f) Initial boiling point and boiling range g) Flash point h) Evaporation rate i) Flammability j) Upper / lower flammability or exposure limits k) Vapour pressure l) Vapour density m) Relative density n) Solubility(ies) o) Partition coefficient: n-octanol / water p) Auto-ignition temperature	Transparent liquid No data available
•	
o) Partition coefficient: n-octanol / water	No data available

# 10. STABILITY AND REACTIVITY

10.1 Reactivity	No data available
10.2 Chemical stability	No data available
10.3 Possibility of hazardous reactions	No data available
10.4 Conditions to avoid	No data available

 10.5 Incompatible materials
 Strong oxidising agents, strong acids, strong bases

 10.6 Hazardous decomposition materials
 No data available. In case of fire see section 5

# 11. TOXICOLOGICAL INFORMATION

# 11.1 Information on toxicological effects

No data available
No data available

# 11.2 Delayed and immediate effects as well as chronic effects from short to long term exposure

# Symptoms

Material is extremely destructive to mucous membranes & upper respiratory tract, eyes & skin. Cough, shortness of breath, headache, and nausea.



### 12. ECOLOGICAL INFORMATION

 12.1 Toxicity
 No data available

 12.2 Persistence and degradability
 No data available

 12.3 Bioaccumulative potential
 No data available

 12.4 Mobility in soil
 No data available

 12.5 Results of PBT and vPvB assessment
 No data available

# 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

# Product / packaging disposal

12.6 Other adverse effects

Dispose of packaging as unused product. Offer surplus and non-recyclable solutions to a licensed disposal company. Observe all EU and local environmental regulations

#### 4. TRANSPORT INFORMATION

14.1 UN number
A.R.D./R.I.D. Not hazardous

14.2 UN proper shipping name
A.R.D./R.I.D. Not hazardous
I.C.A.O.-T.I. Not hazardous

14.3 Transport hazard class(es)A.R.D./R.I.D. Not hazardous14.4 Packaging group

A.R.D./R.I.D. Not hazardous

14.5 Environmental hazards

A.R.D./R.I.D. Not hazardous

14.6 Special precautions for userA.R.D./R.I.D. No data availableI.C.A.O.-T.I. No data available

I.M.D.G. Not hazardous
A.D.N. Not hazardous

I.M.D.G. Not hazardous

I.C.A.O.-T.I. Not hazardous A.D.N. Not hazardous

Not hazardous

I.C.A.O.-T.I.

No data available

Not hazardous

Not hazardous

Not hazardous

No data available

No data available

I.M.D.G.

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A.D.N.

I.C.A.O.-T.I. Not hazardous A.D.N. Not hazardous

I.C.A.O.-T.I. Not hazardous A.D.N. Not hazardous

A.D.N.

Not hazardous

# 15. REGULATORY INFORMATION

# 15.1 Safety, health and environmental regulations

No data available.

# 15.2 Chemical safety assessment

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

### 16. OTHER INFORMATION

# a) Changes since last revision

First issue

# b) Key to any abbreviations used

PPE Personal protective equipment

A.R.D./R.I.D. International Carriage of Dangerous Goods by Road / Rail

I.M.D.G. International Maritime Dangerous Goods

I.C.A.O.-T.I. Technical Instructions for the Safe Transport of Dangerous Goods by Air A.D.N. International Carriage of Dangerous Goods by Inland Waterways

TWA Time-weighted average STEL Short-term exposure limit

# c) References and sources for data

sigma-aldrich.com fishersci.co.uk anatrace.com

# d) Indication of methods used for classification (mixtures only)

No data available

# e) List of Hazard and Precautionary phrase not listed in full in other sections

See Section 2.1.

# f) Advice for training

Disclaimer:

The above information 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. It does not represent any guarantee of the properties of the product. Molecular Dimensions Ltd., shall not be held liable for any damage resulting from handling or from contact with the above product.