



Revision Date 16-Nov-2010

**Revision Number** 1

# SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Identifier Product Description: Cat No. Synonyms

1,1,1,3,3,3-Hexafluoro-2-methyl-2-propanol 309720000; 309720050 None.

Relevant identified uses of the substance or mixture and uses advised againstRecommended UseLaboratory chemicalsUses advised againstNo Information available

Details of the supplier of the safety data sheet Company Acros Organics BVBA Janssen Pharmaceuticalaan 3a 2440 Geel, Belgium E-mail address begel.sdso

begel.sdsdesk@thermofisher.com

#### **Emergency Telephone Number**

For information in the US, call: 001-800-ACROS-01 For information in Europe, call: +32 14 57 52 11

Emergency Number, Europe: +32 14 57 52 99 Emergency Number, US: 001-201-796-7100

CHEMTREC Phone Number, US: 001-800-424-9300 CHEMTREC Phone Number, Europe: 001-703-527-3887

# **SECTION 2. HAZARDS IDENTIFICATION**

#### Classification of the substance or mixture REGULATION (EC) No 1272/2008

Acute Inhalation Toxicity - Dusts and Mists	Category 4
Skin Corrosion/irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Specific target organ toxicity - (single exposure)	Category 3

#### Classification according to EU Directives 67/548/EEC or 1999/45/EC

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16Symbol(s)Xn - HarmfulR-phrase(s)R20 - Harmful by inhalationRisk Combination PhrasesR36/37/38 - Irritating to eyes, respiratory system and skin





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# **SECTION 2. HAZARDS IDENTIFICATION**



Signal WordWarningHazard StatementsH315 - Causes skin irritationH335 - May cause respiratory irritationH335 - May cause respiratory irritationH319 - Causes serious eye irritationH332 - Harmful if inhaled

#### Precautionary Statements - EU (§28, 1272/2008)

P261 - Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray
P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

#### **Other Hazards**

No information available.

# SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	EC-No.	Weight %	CAS-No	67/548/EEC Classification	CLP Classification - Regulation (EC) No 1272/2008	REACH No.
2-Propanol, 1,1,1,3,3,3-hexafluoro-2- methyl- 1515-14-6	EEC No. 216-155-4	97	1515-14-6	Xn; R20 Xi; R36/37/38	STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Acute Tox. 4 (H332)	-

# For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16





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# **SECTION 4. FIRST AID MEASURES**

Description of first aid measures Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Obtain medical attention.
Ingestion	Clean mouth with water. Get medical attention.
Inhalation	Remove from exposure, lie down. Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Obtain medical attention.
Notes to Physician	Treat symptomatically

# **SECTION 5. FIRE-FIGHTING MEASURES**

#### Extinguishing media

#### Suitable Extinguishing Media

Water spray. Carbon dioxide (CO<sub>2</sub>). Dry chemical. chemical foam.

#### **Extinguishing media which must not be used for safety reasons** No information available.

#### Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors

#### Advice for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

# **SECTION 6. ACCIDENTAL RELEASE MEASURES**

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

Ensure adequate ventilation

#### **Environmental precautions**

Prevent further leakage or spillage if safe to do so

#### Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal..





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# **SECTION 7. HANDLING AND STORAGE**

#### **Precautions for Safe Handling**

Avoid contact with skin and eyes. Do not breathe dust. Do not breathe vapors or spray mist.

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

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

#### Specific End Uses

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control parameters**

Exposure limits	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
Biological limit values Derived No Effect Level (DNEL) Predicted No Effect Concentration (PNEC)	This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies. No information available. No information available.
Exposure controls	
Engineering Measures Personal protective equipment Eye Protection Hand Protection Skin and body protection Respiratory Protection	Ensure adequate ventilation, especially in confined areas Goggles Protective gloves Wear appropriate protective gloves and clothing to prevent skin exposure Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced
Hygiene Measures Environmental exposure controls	Handle in accordance with good industrial hygiene and safety practice No information available.

# **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical State Appearance pH Vapor Density Boiling Point/Range Melting Point/Range Flash Point Autoignition Temperature Liquid Colorless No information available. 6.28 60 - 62°C / 140 - 143.6°F No information available. > 113°C / > 235.4°F No information available.



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# **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Specific Gravity Molecular Formula Molecular Weight 1.484 C4 H4 F6 O 182.07

# **SECTION 10. STABILITY AND REACTIVITY**

Reactivity

**Chemical Stability** 

Stable under normal conditions.

**Possibility of Hazardous Reactions** 

# Hazardous PolymerizationNo information available.Hazardous Reactions .No information available.

#### **Conditions to Avoid**

Incompatible products.

Incompatible Materials

Strong oxidizing agents, Strong acids, Strong bases, Strong reducing agents.

#### **Hazardous Decomposition Products**

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Gaseous hydrogen fluoride (HF).

# **SECTION 11. TOXICOLOGICAL INFORMATION**

#### Information on Toxicological Effects

Acute Toxicity Product Information	No acute toxicity information is available for this product
Component Information	
Chronic Toxicity Carcinogenicity	There are no known carcinogenic chemicals in this product
Sensitization Mutagenic Effects Reproductive Effects Developmental Effects	No information available. No information available No information available. No information available.





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# SECTION 11. TOXICOLOGICAL INFORMATION

Target Organs Endocrine Disruptor Information No information available. None known

# **SECTION 12. ECOLOGICAL INFORMATION**

#### Toxicity Ecotoxicity effects

Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants

 Persistence and degradability

 No information available

 Bioaccumulative potential

 No information available.

 Mobility in soil

 No information available.

 Results of PBT and vPvB assessment

 Other adverse effects

 No information available

# SECTION 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Waste from Residues / Unused Products	Dispose of in accordance with local regulations					
Contaminated Packaging	Empty containers should be taken to local recyclers for disposal					

# **SECTION 14. TRANSPORT INFORMATION**

# IMDG/IMO

UN-No2810Hazard Class6.1Packing GroupIIIProper Shipping NameTOXIC LIQUID, ORGANIC, N.O.S.

#### ADR

UN-No	2810
Hazard Class	6.1
Packing Group	111
Proper Shipping Name	TOXIC LIQUID, ORGANIC, N.O.S.





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# **SECTION 14. TRANSPORT INFORMATION**

ΙΑΤΑ

UN-No Hazard Class Packing Group Proper Shipping Name 2810 6.1 III TOXIC LIQUID, ORGANIC, N.O.S.\*

# **SECTION 15. REGULATORY INFORMATION**

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

#### International Inventories

Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	CHINA	AICS	KECL
2-Propanol, 1,1,1,3,3,3-	216-155-4	-		Х	-	Х	-	-	-	-	-
hexafluoro-2-methyl-											

#### Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

CHINA - China Inventory of Existing Chemical Substances

AICS - Inventory of Chemical Substances

**KECL** - Existing and Evaluated Chemical Substances

# **Chemical Safety Assessment**

# **SECTION 16. OTHER INFORMATION**

**Full text of R-phrases referred to under sections 2 and 3** R20 - Harmful by inhalation R36/37/38 - Irritating to eyes, respiratory system and skin

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# **SECTION 16. OTHER INFORMATION**

**Revision Summary** 

Reason for revision Not applicable

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

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet