



INTATRADE
MATERIAL SAFETY DATA SHEET
according to 1907/2006/EC, Article 31

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1. IDENTIFICATION OF SUBSTANCE AND OF THE COMPANY

Product name: **1,1,1,3,3,3-Hexafluoropropan-2-ol**
Product code: RL00027
Company: INTATRADE Chemicals GmbH
Bahnhofstr. 1
06774 Muldestausee OT Friedersdorf, Germany
Phone: +49 3493/605464
Fax : +49 3493/605470
e-mail: intatrade@intatrade.de

2. HAZARDS IDENTIFICATION

Indication of danger C Corrosive.
R-phrase(s) R20/22 Harmful by inhalation and if swallowed.
R34 Causes burns.
Acute Tox. 4 H302
Acute Tox. 4 H332
Skin Corr. 1B H314

GHS label elements

**Danger**

H314 – Causes severe skin burns and eye damage.

**Warning**

Hazard statement H302- Harmful if swallowed.
H332- Harmful if inhaled.

Precautionary statements
[Prevention]
Response:

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
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.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405 Store locked up.
P501 Dispose of contents/container in accordance with

Storage:
Disposal:

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Formula: C3H2F6O
CAS-No.: 920-66-1

RL00027

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4. FIRST AID MEASURES

| | |
|---------------|---|
| Inhalation: | Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. Seek immediate medical advice. |
| Skin contact: | Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice. |
| Eye contact: | Rinse opened eye for several minutes under running water. Then consult doctor. |
| Ingestion: | Seek immediate medical advice. |

5. FIRE-FIGHTING MEASURES

| | |
|-------------------------------|---|
| Suitable extinguishing media: | CO ₂ , extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam. |
| Specific hazards: | Can be released in case of fire: Carbon monoxide and carbon dioxide Hydrogen fluoride (HF) |
| Protective equipment: | Wear self-contained breathing apparatus. Wear full protective suit. |

6. ACCIDENTAL RELEASE MEASURES

| | |
|--|--|
| Person-related safety precautions: | Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation |
| Measures for environmental protection: | Do not allow material to be released to the environment without proper governmental permits. |
| Measures for cleaning/collecting: | Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent. Dispose of contaminated material as waste according to item 13. Ensure adequate ventilation. |

7. HANDLING AND STORAGE

Handling

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|--------------------------------|---|
| Information for safe handling: | Keep containers tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. |
|--------------------------------|---|

| | |
|--|--|
| Information about protection against explosions and fires: | Keep ignition sources away - Do not smoke. |
|--|--|

Storage

| | |
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| Requirements to be met by storerooms and containers: | No special requirements. |
| Information about storage in one common storage facility: | Store away from oxidizing agents. |
| Further information about storage conditions: | Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. |

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| | |
|---|--|
| Additional information about design of technical systems: | Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. |
| Components with critical values that require monitoring at the workplace: | Not required. |
| Additional information: | No data |
| Personal protective equipment | |
| General protective and hygienic measures | The usual precautionary measures should be adhered to in handling the chemicals. Keep away from foodstuffs, beverages and food. Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work. Avoid contact with the eyes and skin. |
| Breathing equipment: | Use breathing protection with high concentrations. |
| Protection of hands: | Check protective gloves prior to each use for their proper condition. |
| Material of gloves | The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. |
| Eye protection: | Safety glasses Tightly sealed safety glasses. Full face protection Face protection |
| Body protection: | Protective work clothing. |

9. PHYSICAL AND CHEMICAL PROPERTIES

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|---|-------------------------|
| Form: | Liquid |
| Colour: | Colourless |
| Smell: | Not determined |
| Change in condition | |
| Melting point/Melting range: | -4°C |
| Boiling point/Boiling range: | 59-60°C |
| Sublimation temperature / start: | Not determined |
| Ignition temperature: | Not determined |
| Decomposition temperature: | Not determined |
| Flash Point: | Not determined |
| Explosive limits | |
| Lower: | No data available |
| Upper: | No data available |
| Density at 20°C | 1.596 g/cm ³ |
| : | |
| Solubility in/ Miscibility with Water : | Fully miscible |

10. STABILITY AND REACTIVITY

| | |
|---|--|
| Thermal decomposition / conditions to be avoided: | No decomposition if used and stored according to specifications. |
| Materials to be avoided: | Oxidizing agents |
| Dangerous reactions: | No dangerous reactions known |
| Dangerous products of decomposition: | Carbon monoxide and carbon dioxide Hydrogen fluoride |

11. TOXICOLOGICAL INFORMATION

Primary irritant effect:

on the skin:

Corrosive effect on skin and mucous membranes.

Irritant for skin and mucous membranes.

on the eye:

Strong corrosive effect.

Irritant effect.

Sensitization:

No sensitizing effect known.

Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

12. ECOLOGICAL INFORMATION

Additional ecological information:

General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

Do not allow material to be released to the environment without proper governmental permits.

13. DISPOSAL CONSIDERATIONS

Recycle to process, if possible. Consult your local regional authorities. You may be able to burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

14. TRANSPORT INFORMATION

Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)

ADR/RID-GGVS/E Class:

8 (C9) Corrosive substances.

Kemler Number:

80

UN-Number:

1760

Packaging group:

III

Label

8

Designation of goods:

1760 CORROSIVE LIQUID, N.O.S. (1,1,1,3,3,3,-Hexafluoro-2-propanol)

Limited quantities (LQ)

LQ7

Transport category

3

Tunnel restriction code

E

Maritime transport IMDG/GGVSea:

IMDG/GGVSea Class:

8

UN Number:

1760

Label

8

Packaging group:

III

Marine pollutant:

No

Correct technical name:

CORROSIVE LIQUID, N.O.S. (1,1,1,3,3,3,-Hexafluoro-2-propanol)

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class:

8

UN/ID Number:

1760

Label

8

Packaging group:

III

Correct technical name:

CORROSIVE LIQUID, N.O.S. (1,1,1,3,3,3,-Hexafluoro-2-propanol)

UN "Model Regulation":

UN1760, CORROSIVE LIQUID, N.O.S., 8, III

15. REGULATORY INFORMATION

Designation according to EC guidelines:

Code letter and hazard designation of product:

C Corrosive

Risk phrases:

20/22 Harmful by inhalation and if swallowed.

34 Causes burns.

Safety phrases:

9 Keep container in a well-ventilated place.

20 When using do not eat or drink.

23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).

26 In case of contact with eyes, rinse immediately with plenty of water.
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

60 This material and its container must be disposed of as hazardous waste.

National regulations

Information about limitation of use:

Employment restrictions concerning young persons must be observed.

For use only by technically qualified individuals.

Water hazard class:

Water hazard class 1 (Self-assessment): slightly hazardous for water.

16. OTHER INFORMATION

Warranty

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. Intatrade Chemicals GmbH shall not be held liable for any damage resulting from handling or from contact with the above product.