Product Isopropanol USP Grade

Revision date 29 June 2018

Revision 3



Safety Data Sheet (SDS)

Section 1: Identification of the substance/preparation and of the company/undertaking

1.1 Product identifier

Product name Isopropanol USP Grade Synonyms, Trade names No information available.

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

Identified uses Manufacture of substances, Distribution and storage, Formulations.

Uses advised againstNo uses advised against are identified.

1.3 Details of the supplier of the safety data sheet

Supplier Solv-Echem Ireland Ltd

Great Island Industrial Park

Ballincollig Cork Ireland

Tel: 00 353 (0)21 487 7066

Contact person tony@solvechem.com

1.4 Emergency telephone number

Emergency telephone 00 353 (0)21 487 7066

Section 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and chemical hazards Flam. Liq 2- H225

Human health Eye Irrit.2A - H319, STOT SE 3 - H336

Environment Not classified

2.2 Label elements

Label in accordance with (EC) no. 1272/2008



Signal word Danger

Hazard statements H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.

Precautionary statements Prevention

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

P261 Avoid breathing dust/fume/ gas/mist/vapours/spray.

P210 Keep away from heat/ sparks/open flames/hot surfaces. — No smoking.

Response

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

 $P303 + P361 + P353 \ IF \ ON \ SKIN \ (or \ hair): \ Remove/Take \ off \ immediately \ all \ contaminated$

clothing. Rinse skin with water/ shower.

Storage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

2.3 Other hazards

None known.

Section 3: Composition/identification of ingredients

3.1 Substance

Not applicable.

3.2 Mixtures

Name	Product identifier	Reg. EU 1272/2008	%
Inronan-7-ol	CAS-No.: 67-63-0 EC No.: 200-661-7	Eye Irrit.2A - H319, Flam. Liq 2- H225, STOT SE 3 - H336	60-100%

The full text for all hazard statements are displayed in section 16.

Composition comments The data shown are in accordance with the latest EC Directives.

Section 4: First aid measures

4.1 Description of first aid measures

General information General first aid, rest, warmth and fresh air.

Inhalation Move injured person into fresh air and keep person calm under observation. If necessary,

seek hospital and bring these instructions.

Ingestion Rinse mouth with water. Consult a doctor/medical service if you feel unwell.

Skin contact Wash the skin immediately with soap and water. Immediately remove contaminated clothing.

Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after

washing.

Eye contact Do not rub eye. Immediately flush with plenty of water for up to 15 minutes. Remove any

contact lenses and open eyelids widely. If irritation persists: Continue flushing during

transport to hospital. Bring these instructions.

4.2 Most important symptoms and effects, both acute and delayed

General information Central nervous system depression, prolonged or repeated exposure can cause:, Nausea,

Headache, Vomiting, Narcosis, Drowsiness, Overexposure may cause mild, reversible liver

effects.

Inhalation Vapours may cause headache, fatigue, dizziness and nausea.

Ingestion May cause discomfort if swallowed.

Skin contact Prolonged contact may cause redness, irritation and dry skin.

Eye contact May cause severe irritation to eyes.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to the physician Treat Symptomatically.

Section 5: Fire-fighting measures

5.1 Extinguishing media

Extinguishing media Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing media No unsuitable extinguishing media identified.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products Unusual fire & explosion hazards Carbon Oxides. Highly Flammable!

Specific hazards

Vapours may be ignited by a spark, a hot surface or an ember.

5.3 Advice for firefighters

Special fire fighting procedures If possible, fight fire from protected position. Ventilate closed spaces before entering them.

Keep up-wind to avoid fumes. Containers close to fire should be removed immediately or

cooled with water.

Protective equipment for firefighters Self contained breathing apparatus and full protective clothing must be worn in case of fire.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautionsUse personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate

ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low

areas.

For emergency responders No information available.

6.2 Environmental precautions

Environmental precautions Do not discharge into drains, water courses or onto the ground.

6.3 Methods and material for containment and cleaning up

Spill clean up methods Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-

brushing and place in container for disposal according to local regulations.

6.4 Reference to other sections

Reference to other sections For waste disposal, see section 13.

Section 7: Handling and storage

7.1 Precautions for safe handling

Handling Keep away from heat, sparks and open flame. Eliminate all sources of ignition. Use explosion

proof electric equipment. Provide good ventilation. Container must be kept tightly closed.

7.2 Conditions for safe storage, including any incompatibilities

Storage precautions Flammable/combustible - Keep away from oxidisers, heat and flames. Take precautionary

measures against static discharges. Store in tightly closed original container in a well-

ventilated place. Store in an area secured under lock and key.

Storage class Flammable liquid storage.

7.3 Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

Usage description Use only according to directions.

Section 8: Exposure controls/Personal protection

8.1 Control parameters

Component	STD	TWA (8 Hrs)		STEL (15mins)		Notes
propan-2-ol	OEL	200.000 ppm	0.000 mg/m ³	400.000 ppm	0.000 mg/m ³	
propan-2-ol	OEL	200 ppm		400 ppm		

Ingredient comments Ireland, Occupational Exposure Limits 2016.

8.2 Exposure Controls

Protective equipment



Engineering measures Provide adequate ventilation, including appropriate local extraction, to ensure that the

defined occupational exposure limit is not exceeded.

Respiratory equipment If ventilation is insufficient, suitable respiratory protection must be provided.

Hand protection Wear chemical protective gloves that are in accordance with EN 374. 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 Face shield and safety glasses Use equipment for eye protection tested and approved under

appropriate government standards such as NIOSH (US) or EN 166(EU).

Other protection Provide eyewash station.

Hygiene measures DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating,

smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

Process conditions Keep container tightly sealed when not in use.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

AppearanceLiquid.ColourColourless.OdourOdour of alcohol.

Odour threshold - lower No information available.

Odour threshold - upperNo information available.

pH-Value, Conc. Solution No information available.

pH-Value, Diluted solution No information available.

Melting point No information available.

Initial boiling point and boiling

range

9999.90

Flash point No information available.

Evaporation rate No information available.

Flammability state No information available.

Flammability limit - lower(%) No information available.

 $\label{limit-upper} \textbf{Flammability limit-upper(\%)} \qquad \qquad \text{No information available}.$

Vapour pressure No information available.

Vapour density (air=1) No information available.

Relative density No information available.

Bulk density No information available.

Solubility Miscible in water.

Decomposition temperature No information available.

Partition coefficient; n-

Octanol/Water

No information available.

Auto ignition temperature (°C) No information available.

Viscosity No information available.

Explosive properties No information available.

Oxidising properties No information available.

9.2 Other information

Molecular weight No information available.

Volatile organic compound No information available.

Other information None.

Section 10: Stability and reactivity

10.1 Reactivity

Reactivity No specific reactivity hazards associated with this product.

10.2 Chemical stability

Stable under normal temperature conditions and recommended use.

10.3 Possibility of hazardous reactions

Hazardous reactionsNone known.Hazardous polymerisationWill not polymerise.Polymerisation descriptionNo information available.

10.4 Conditions to Avoid

Conditions to avoid Avoid contact with strong oxidisers. Avoid heat, flames and other sources of ignition.

10.5 Incompatible materials

Materials to avoid Strong oxidising substances.

10.6 Hazardous decomposition products

Section 11: Toxicological information

11.1 Information on toxicological effects

Toxicological information The mixture is classified based on the available hazard information for the ingredients as

defined in the classification criteria for mixtures for each hazard class or differentiation in

Annex I to Regulation 1272/2008/EC.

Acute toxicity (Oral LD50) =4570.00mg/kg Rat
Acute toxicity (Dermal LD50) =13400.00mg/kg Rat
Acute toxicity (Inhalation LD50) No information available.

Serious eye damage/irritation Moderately irritating. May cause burns.

Skin corrosion/irritation No information available.

Respiratory sensitisationNo information available.Skin sensitisationNo information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Specific target organ toxicity - Single exposure:

STOT - Single exposure No information available.

Specific target organ toxicity - Repeated exposure:

STOT - Repeated exposure No information available.

Inhalation Vapours may cause headache, fatique, dizziness and nausea.

Ingestion May cause discomfort if swallowed.

Skin contact Prolonged contact may cause redness, irritation and dry skin.

Eye contact May cause severe irritation to eyes.

Waste management When handling waste, consideration should be made to the safety precautions applying to

handling of the product.

Routes of entry Skin and/or Eye Contact

Target organs Eyes, Skin, Inhalation and Ingestion.

Aspiration hazards: No information available. **Reproductive toxicity:** No information available.

Section 12: Ecological information

12.1 Toxicity

Acute toxicity - FishNo information available.Acute toxicity - Aquatic invertebratesNo information available.Acute toxicity - Aquatic plantsNo information available.Acute toxicity - MicroorganismsNo information available.Chronic toxicity - FishNo information available.Chronic toxicity - AquaticNo information available.

invertebrates

Chronic toxicity - Aquatic plantsChronic toxicity - Microorganisms
No information available.
No information available.

Ecotoxicity The product components are not classified as environmentally hazardous. However, this does

not exclude the possibility that large or frequent spills can have a harmful or damaging

effect on the environment.

Eco toxilogical information Not classified as dangerous for the environment according to the criteria of Regulation (EC)

No 1272/2008.

12.2 Persistence and degradability

Degradability There are no data on the degradability of this product.

Biological oxygen demandNo information available. **Chemical oxygen demand**No information available.

12.3 Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Bioaccumulation factorPartition coefficient; nNo information available.

Octanol/Water

12.4 Mobility in soil

Mobility No information available.

12.5 Results of PBT and vPvB assessment

 $\textbf{Results of PBT and vPvB assessment} \ \ \textbf{The product does not contain any PBT or vPvB Substances}.$

12.6 Other adverse effects

Other adverse effects None known.

Section 13: Disposal considerations

Waste management When handling waste, consideration should be made to the safety precautions applying to

handling of the product.

13.1 Waste treatment methods

Disposal methods Small amounts may be flushed with water to sewer. Larger volumes must be sent to

approved plant for destruction.

Section 14: Transport information

14.1 UN number

 UN no. (ADR)
 UN1219

 UN no. (IMDG)
 UN1219

 UN no. (IATA)
 UN1219

14.2 UN proper shipping name

ADR proper shipping name
ISOPROPANOL (ISOPROPYL ALCOHOL)
IMDG proper shipping name
ISOPROPANOL (ISOPROPYL ALCOHOL)
ISOPROPYL ALCOHOL)
ISOPROPYL ALCOHOL

14.3 Transport hazard class(es)

ADR class 3
IMDG class 3
IATA class 3

Transport labels



14.4 Packing group

ADR/RID/ADN packing group II
IMDG packing group II
IATA packing group II

14.5 Environmental hazards

ADR No IMDG No IATA No

14.6 Special precautions for user

EMS F-E, S-D
Emergency action code A180
Hazard no. (ADR) 33
Tunnel restriction code (D/E)

14.7 Transport in bulk according to annex II of MARPOL73/78 and the IBC code

Section 15: Regulatory information

15.1 Safety, health and environmental regulations/Legislation specific for the substance or mixture

EU legislation Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16

December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments. The UN Globally Harmonized System (GHS) Safety Data Sheet format (Annex IV) is implemented as Annex II of REACH EU No 453/2010 of 20th

May 2010 amending regulation (EC) No 1907/2006.

Approved code of practice 2016 Code of Practice for the Chemical Agents Regulations in accordance with section 60 of

the Safety, Health and Welfare at Work Act 2005 (No. 10 of 2005).

Chemical safety assessment No chemical safety assessment has been carried out.

Section 16: Other information

General information This Safety Data Sheet is in accordance with Reach Regulation (EC) No 453/2010

Revision commentsThis is a third issue.Revision date29 June 2018Supersedes date26 June 2018

Revision 3

Safety data sheet status Approved.

Hazard statements in full

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.