CERTIFICATE OF ANALYSIS

PRODUCT NAME: ISOPROPYL ALCOHOL

BATCH NUMBER: 4529303

BEST BEFORE DATE: January 2027

property	specification	result
Appearance	--	Pass
Platinum cobalt colour (pt/co colour)	Max 10	<5
Iso Propyl Alcohol (IPA) Purity (%m,m)	Min 99.96	99.99
Water by KF (%m,m)	Min 99.96	99.99
Acidity(as acetic acid) (%m,m)	Max 0.001	0.0006
Density at 20°C (g/ml)	Min 0.784 – Max 0.786	0.7852
Nonvolatile Matter (mg/100ml)	Max 1	0.0
Permanganate time of alcohol at 20°C	Min 15	>15
Refractive index (Na D spectral line) at 20°C	Min 1.3760 – Max 1.3780	1.3772

FOOD ALLERGEN DECLARATION

ISOPROPYL ALCOHOL

CAS NUMBER
67-63-0

EC NUMBER
200-661-7

CHEMICAL NAME
PROPAN-2-OL

We hereby confirm that the above material does not contain the following allergens on the basis of Regulation (EU) 1169/2011:

Wheat/Rye/Barley (incl Gluten)	Illegal Dyes e.g. Sudan, Orange II, Para Red etc.	Rice
Oats (incl Bran)	Flavourings - specify	Salt added
Soya	Caffeine	Sugar/Sweeteners added
Soya Derivatives - specify	Cocoa	Ethanol
Sesame Seed / Seed Oil	Caramel	Hydrolysed Vegetable Protein
Poppy Seed / Seed Oil	Coconut	Textured Vegetable Protein
Maize	Coriander	Glutamate (naturally occurring)
Maize Derivatives - specify	Honey	MSG added
Egg/Egg Derivatives	Celery	Azo Colours
Milk/Milk Derivatives	Mustard	Natural Colours
Beef/Beef Derivatives	Yeast/Yeast Extract	Fruit/Fruit Derivatives - specify
Animal Products - specify	Phenylalanine	Orange
Pork/Pork Derivatives	Peanuts/Peanut Derivatives	Kiwi
Fish/Shellfish - specify	Other Nut/Nut Derivatives	Onion/Garlic/Leek, etc.
Preservatives - specify	Other Seed/Seed Derivatives	Herbs/Spices - specify
Sulphur Dioxide	Palm Oil or Palm Derivatives	
Sulphites	Latex / Natural Rubber	
BHA (In Accordance with 95/2/EC)	Lupins	
BHT (In Accordance with 95/2/EC)	Molluscs	
Antioxidants - others (specify)	Vegetables/Vegetable Derivatives - specify	

MAY 2022

CMR CERTIFICATE

ISOPROPYL ALCOHOL

CAS NUMBER
67-63-0

EC NUMBER
200-661-7

CHEMICAL NAME
PROPAN-2-OL

We hereby declare that we have received confirmation from the Manufacturer to state that the above material does not contain any of the listed CMR products, outlined in Article 15 of the Cosmetics Regulation 1223/2009 (CMR substances of category 1A, 1B, or 2 under Part 3 of Annex IV to Regulation (EC) NO 1272/2008).

MAY 2022

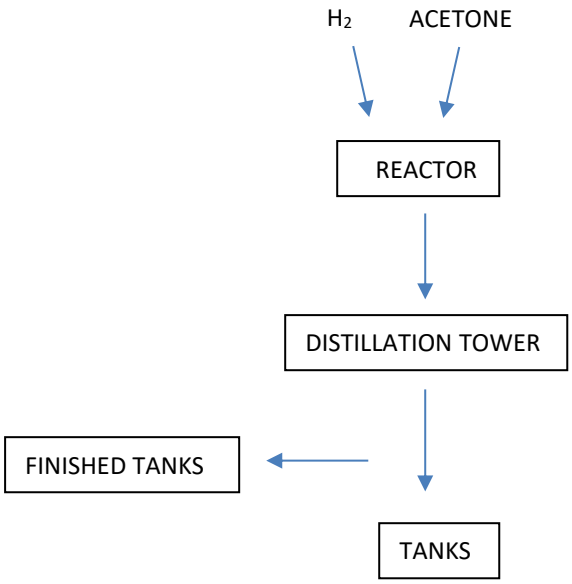
FLOW CHART

ISOPROPYL ALCOHOL

CAS NUMBER
67-63-0

EC NUMBER
200-661-7

CHEMICAL NAME
PROPAN-2-OL



MAY 2022

GMO STATEMENT

ISOPROPYL ALCOHOL

CAS NUMBER
67-63-0

EC NUMBER
200-661-7

CHEMICAL NAME
PROPAN-2-OL

We hereby confirm that, to the best of our knowledge, no Genetically Modified Organisms (GMO's) are used in the Production of the above material.

MAY 2022

IFRA DECLARATION

ISOPROPYL ALCOHOL

CAS NUMBER
67-63-0

EC NUMBER
200-661-7

CHEMICAL NAME
PROPAN-2-OL

We hereby declare that we have received confirmation from the manufacturer for the above material supplied to state that it conforms the following requirements:

- The product is manufactured as per IFRA code of practices.
- The product is neither restricted nor prohibited by IFRA for use in Fragrances.
- The product conforms to IFRA 50th amendment.

MAY 2022

SAFETY DATA SHEET
ISOPROPYL ALCOHOL

Commission Regulation (EU) No 2015/830 of 28 May 2015.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name	ISOPROPYL ALCOHOL
Chemical name	PROPAN-2-OL
Product number	IPA, 2D S00828
REACH registration number	01-2119457558-25-XXXX
REACH registration notes	REACH registration only covers products which OQEMA have imported into Europe or sourced within Europe. If the product is sold directly outside Europe this is not covered under the registration. It is the responsibility of the subsequent importer into Europe to ensure their volume of product is covered under the REACH regulations.
CAS number	67-63-0
EC number	200-661-7

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

1.3. Details of the supplier of the safety data sheet

Supplier

Madar Corporation Limited
19 - 20 Sandleheath Industrial Estate
Fordingbridge
SP6 1PA

+44 (0)1425 655 555
technical@madarcorporation.co.uk

1.4. Emergency telephone number

Emergency telephone	EMERGENCY INFORMATION OUT OF OFFICE HOURS CONTACT CARECHEM 24: +44 (0)1270 502891

SECTION 2: Hazards identification

ISOPROPYL ALCOHOL

2.1. Classification of the substance or mixture

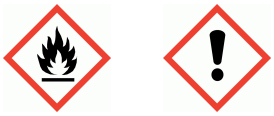
Classification (EC 1272/2008)

Physical hazards	Flam. Liq. 2 - H225
Health hazards	Eye Irrit. 2 - H319 STOT SE 3 - H336
Environmental hazards	Not Classified

2.2. Label elements

EC number 200-661-7

Hazard pictograms



Signal word	Danger
Hazard statements	H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.
Precautionary statements	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P240 Ground and bond container and receiving equipment. P241 Use explosion-proof electrical equipment. P242 Use non-sparking tools. P243 Take action to prevent static discharges. P261 Avoid breathing vapour/ spray.
Contains	PROPAN-2-OL
Supplementary precautionary statements	P264 Wash contaminated skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. 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. P312 Call a POISON CENTRE/doctor if you feel unwell. P337+P313 If eye irritation persists: Get medical advice/ attention. P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P403+P235 Store in a well-ventilated place. Keep cool. P405 Store locked up. P501 Dispose of contents/ container in accordance with national regulations.

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

ISOPROPYL ALCOHOL

PROPAN-2-OL	99.9%
CAS number: 67-63-0	EC number: 200-661-7

Classification
Flam. Liq. 2 - H225
Eye Irrit. 2 - H319
STOT SE 3 - H336

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information In all cases of doubt, or when symptoms persist, seek medical attention. Show this safety data sheet to the doctor in attendance Get medical attention.

Inhalation Remove person to fresh air and keep comfortable for breathing. Get medical attention. If breathing stops, provide artificial respiration.

Ingestion Do not induce vomiting unless under the direction of medical personnel. If person is conscious, rinse mouth with water. Give plenty of water to drink. Never give anything by mouth to an unconscious person. Get medical attention.

Skin contact Wash skin thoroughly with soap and water. Get medical attention.

Eye contact Get medical attention immediately. Separate eyelids, wash the eyes thoroughly with water (15 minutes). Get medical attention.

Protection of first aiders No information available.

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

General information The most important known symptoms and effects are described in the labelling (section 2.2) and section 11

Inhalation No information available.

Ingestion No information available.

Skin contact No information available.

Eye contact No information available.

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

Specific treatments No information available.

Notes for the doctor No information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Foam. Carbon dioxide (CO2). Dry powder. Water spray. Alcohol-resistant foam. Dry chemicals. Cool containers with water spray

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards	Flammable liquid May release vapours that form flammable mixtures at or above the flash point. Empty containers or liners may retain some product residues and hence be potentially hazardous. Do not pressurise, cut, weld, drill, grind or otherwise expose containers to heat or sources of ignition. Prevent entry into waterways, sewers, basements or confined areas May evolve oxides of carbon (COx) under fire conditions.
Hazardous combustion products	No information available.

5.3. Advice for firefighters

Protective actions during firefighting	Cool container with water spray from a safe distance
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet. Avoid breathing vapours, mist or gas. Provide adequate ventilation. Remove all sources of ignition. Keep unnecessary and unprotected personnel away from the spillage. Immediately evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapour can accumulate in low areas.
For non-emergency personnel	This material may be hazardous by contact, do not attempt to clean up the spill. Call trained emergency responders immediately. Clean up only to be done by Emergency responders/personnel. Restrict access to area as appropriate until clean-up operations are complete. Use appropriate personal protective equipment.
For emergency responders	Use appropriate personal protective equipment during clean-up Stop leak if safe to do so. Provide adequate ventilation. Eliminate all sources of ignition. Do not touch or walk into spilled material. Restrict access to area as appropriate until clean-up operations are complete. Ensure clean-up is conducted by trained personnel only. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Notify appropriate government, occupational health and safety and environmental authorities.

6.2. Environmental precautions

Environmental precautions	Prevent further leakage or spillage if safe to do so. Prevent entry into drains. Avoid the spillage or runoff entering drains, sewers or watercourses. Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	Small Spillages: Soak up spill with absorbent material. Place residues in a suitable, covered, properly labelled container. Wash affected area. Large Spillages: Contain liquid using absorbent material, by digging trenches or by diking. Reclaim into recovery or salvage drums or tank truck for proper disposal. Wash site of spillage thoroughly with water. Contact an approved waste hauler for disposal of contaminated recovered material. Dispose of contents/container in accordance with local regulations.

6.4. Reference to other sections

Reference to other sections	See Section 7 for information on safe handling. Wear protective clothing as described in Section 8 of this safety data sheet. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. Collect and dispose of spillage as indicated in Section 13.

SECTION 7: Handling and storage

ISOPROPYL ALCOHOL

7.1. Precautions for safe handling

Usage precautions Provide adequate ventilation. Do not breathe vapours. Do not breathe gas. Do not breathe dust. Container must be kept tightly closed when not in use. Only store in correctly labelled containers. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use personal protective equipment as required. Protect against electrostatic charges.

Advice on general occupational hygiene Avoid contact with eyes and skin. Do not eat, drink or smoke when using this product. Eye wash facilities and emergency shower must be available when handling this product. Good personal hygiene procedures should be implemented. Wash skin thoroughly after handling. Take off immediately all contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Only store in correctly labelled containers. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not store with oxidising agents.

Storage class No information available.

7.3. Specific end use(s)

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

Usage description No information available.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

No information available.

PROPAN-2-OL

Long-term exposure limit (8-hour TWA): WEL 400 ppm 999 mg/m³
Short-term exposure limit (15-minute): WEL 500 ppm 1250 mg/m³
WEL = Workplace Exposure Limit.

Ingredient comments No information available.

Biological limit values No information available.

DNEL Workers - Inhalation; Long term systemic effects: 500 mg/m³
Workers - Dermal; Long term systemic effects: 888 mg/kg/day
General population - Inhalation; Long term systemic effects: 89 mg/m³
General population - Dermal; Long term systemic effects: 319 mg/kg/day
General population - Oral; Long term systemic effects: 26 mg/kg/day

DMEL No information available.

PNEC Fresh water; 140.9 mg/l
marine water; 140.9 mg/l
STP; 2 251 mg/l
Sediment (Freshwater); 552 mg/kg
Sediment (Marinewater); 552 mg/kg
Soil; 28 mg/kg
Oral (secondary poisoning); 160 mg/kg

PROPAN-2-OL (CAS: 67-63-0)

ISOPROPYL ALCOHOL

DNEL	Workers - Inhalation; Long term systemic effects: 500 mg/m³ Workers - Dermal; Long term systemic effects: 888 mg/kg/day General population - Inhalation; Long term systemic effects: 89 mg/m³ General population - Dermal; Long term systemic effects: 319 mg/kg/day General population - Oral; Long term systemic effects: 26 mg/kg/day
PNEC	Fresh water; 140.9 mg/l marine water; 140.9 mg/l STP; 2 251 mg/l Sediment (Freshwater); 552 mg/kg Sediment (Marinewater); 552 mg/kg Soil; 28 mg/kg Oral (secondary poisoning); 160 mg/kg

8.2. Exposure controls

Protective equipment

Appropriate engineering controls	Emergency shower and eye wash facilities should be readily available Provide adequate ventilation.
Personal protection	No information available.
Eye/face protection	Personal protective equipment for eye and face protection should comply with European Standard EN166. Chemical splash goggles and face shield.
Hand protection	To protect hands from chemicals, gloves should comply with European Standard EN374. Wear protective gloves. Gloves must be inspected prior to use. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands For full contact: Nitrile rubber. Minimum layer thickness: 0.4mm breakthrough time >480mins For splash contact: Nitrile rubber. Minimum layer thickness: 0.2mm Breakthrough time 60 min (EN374) If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.
Other skin and body protection	Chemical resistant boots should comply with European standard EN345. Body protection must be chosen depending on activity and possible exposure, eg. apron, protecting boots, chemical-protection suit (according to DIN-EN 465). Impervious clothing - apron/boots. Flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace
Hygiene measures	Avoid contact with skin, eyes and clothing Do not eat, drink or smoke when using this product. Eye wash facilities and emergency shower must be available when handling this product. Good personal hygiene procedures should be implemented. Wash skin thoroughly after handling. Take off immediately all contaminated clothing and wash it before reuse. Keep away from foodstuffs, beverages and feed.

Respiratory protection	Where risk assessment shows air-purifying respirators are appropriate use a full-face respiratior with multi purpose combination or type ABEK (EN 14387). If ther respirator is the sole means of protection, use a full-face supplied air respirator. use respirators and components tested and approved under appropriate government standards such as NIOSH or CEN
Thermal hazards	No information available.
Environmental exposure controls	No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Colourless.
Odour	Alcohol Like
Odour threshold	No information available.
pH	No information available.
Melting point	-89.5°C
Initial boiling point and range	82°C
Flash point	12°C Closed cup.
Evaporation rate	No information available.
Evaporation factor	No information available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	Upper flammable/explosive limit: 12.7 % Lower flammable/explosive limit: 2 %
Other flammability	No information available.
Vapour pressure	43.2 hPa @ 20°C 58.7 hPa @ 25°C
Vapour density	No information available.
Relative density	0.785 g/ml @ 25°C
Bulk density	No information available.
Solubility(ies)	Completely soluble in water.
Partition coefficient	log Pow: 0.05
Auto-ignition temperature	425°C
Decomposition Temperature	No information available.
Viscosity	No information available.
Explosive properties	No information available.
Explosive under the influence of a flame	No information available.
Oxidising properties	No information available.
Comments	No information available.

ISOPROPYL ALCOHOL

9.2. Other information

Other information	No information available.
Refractive index	No information available.
Particle size	No information available.
Molecular weight	No information available.
Volatility	No information available.
Saturation concentration	No information available.
Critical temperature	No information available.
Volatile organic compound	No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	Stable under normal conditions

10.2. Chemical stability

Stability	Stable at normal ambient temperatures and when used as recommended. Reacts with air to form peroxides.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Hazardous polymerisation does not occur

10.4. Conditions to avoid

Conditions to avoid	Avoid heat, flames and other sources of ignition. Take precautionary measures against static discharges.

10.5. Incompatible materials

Materials to avoid	Oxidising agents. Strong oxidising agents. Acid anhydrides. Aluminium. Halogenated compounds Acids.

10.6. Hazardous decomposition products

Hazardous decomposition products	Fire creates: Carbon Oxides (CO + CO2)

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects	No information available.
Other health effects	No information available.

Acute toxicity - oral

Notes (oral LD_{50})	LD_{50} 5.84 g/kg, bw, Oral, Rat Klimisch rating 2 1948 OECD 401

Acute toxicity - dermal

Notes (dermal LD_{50})	LD_{50} 16.4 ml/kg, bw, Dermal, Rabbit Klimisch rating 2 1948 OECD 402

Acute toxicity - inhalation

Notes (inhalation LC_{50})	LC50 > 10 000 ppm, Inhalation, Rat KLIMISCH RATING 1 1991 OECD 403 LC50 37.5 mg/l, Inhalation, Rat OECD 403

Skin corrosion/irritation

ISOPROPYL ALCOHOL

Skin corrosion/irritation	No information available.
Animal data	Dose: , 4 hours, Rabbit Not classified. Klimisch rating 2 1975
Human skin model test	No information available.
Extreme pH	No information available.

Serious eye damage/irritation

Serious eye damage/irritation	Dose: 0.1 mL, 14 days, Rabbit Category II klimisch rating 1 1986 OECD405

Respiratory sensitisation

Respiratory sensitisation	No information available.

Skin sensitisation

Skin sensitisation	Buehler test - Guinea pig: Not sensitising. Klimisch rating 1 1980 OECD 406

Germ cell mutagenicity

Genotoxicity - in vitro	Mammalian cell gene mutation assay: Negative. Klimisch rating 1 1990 OECD 476 Bacterial reverse mutation test: Negative. Klimisch rating 2 1992 OECD 471
Genotoxicity - in vivo	Micronucleus assay: Negative. Klimisch rating 2 1991 OECD 474

Carcinogenicity

Carcinogenicity	NOEL 5 000 ppm, Inhalation, Rat Klimisch rating 1 1994 1997 OECD 451 NOEL 5 000 ppm, Inhalation, Mouse Klimisch rating 2 1993 1997 OECD 451
Target organ for carcinogenicity	No information available.
IARC carcinogenicity	No information available.
NTP carcinogenicity	No information available.

Reproductive toxicity

Reproductive toxicity - fertility	Weight of evidence. Two-generation study - NOAEL 500 mg/kg/day, Oral, Rat P0 Two-generation study - NOAEL 500 mg/kg/day, Oral, Rat F1 Two-generation study - NOAEL 1 000 mg/kg/day, Oral, Rat F1 Klimisch rating 1 1992 OECD 416
Reproductive toxicity - development	Weight of evidence. Maternal toxicity: - NOAEL: 400 mg/kg/day, Oral, Rat Developmental toxicity: - NOAEL: 400 mg/kg/day, Oral, Rat Klimisch rating 1 1990 OECD 414

Specific target organ toxicity - single exposure

STOT - single exposure	No information available.
Target organs	No information available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure	NOEC 500 ppm, Inhalation, Rat NOAEC 5 000 ppm, Inhalation, Rat NOEC 5 000 ppm, Inhalation, Rat Klimisch rating 1 1994 OECD 451
Target organs	No information available.

Aspiration hazard

Aspiration hazard	No information available.

Toxicokinetics	No information available.
General information	No information available.
Inhalation	No information available.

ISOPROPYL ALCOHOL

Ingestion	No information available.
Skin contact	No information available.
Eye contact	No information available.
Acute and chronic health hazards	No information available.
Route of exposure	No information available.
Target organs	No information available.
Medical symptoms	No information available.
Medical considerations	No information available.

SECTION 12: Ecological information

Ecotoxicity No information available.

12.1. Toxicity

Toxicity No information available.

Acute aquatic toxicity

Acute toxicity - fish	LC_{50}, 96 hours: 10 000 mg/l, Pimephales promelas (Fat-head Minnow) LC_{50}, 96 hours: 9 640 mg/l, Pimephales promelas (Fat-head Minnow) klimisch rating 2 1983 OECD 203
Acute toxicity - aquatic invertebrates	LC_{50}, 24 hours: > 10 000 mg/l, Daphnia magna LC_{0}, 24 hours: 5 000 mg/l, Daphnia magna klimisch rating 2 1977 OECD 202
Acute toxicity - aquatic plants	Toxicity threshold, 7 days: 1 800 mg/l, Scenedesmus quadricauda klimisch rating 2 1980
Acute toxicity - microorganisms	Toxicity threshold, 16 hours: 1 050 mg/l, Pseudomonas putida klimisch rating 2 1980
Acute toxicity - terrestrial	No information available.

Chronic aquatic toxicity

Chronic toxicity - fish early life stage	No information available.
Short term toxicity - embryo and sac fry stages	No information available.
Chronic toxicity - aquatic invertebrates	No information available.
Toxicity to soil	No information available.
Toxicity to terrestrial plants	No information available.

12.2. Persistence and degradability

ISOPROPYL ALCOHOL

Persistence and degradability	No information available.
Phototransformation	No information available.
Stability (hydrolysis)	No information available.
Biodegradation	Water - Degradation 53: 5 days The substance is readily biodegradable. klimisch rating 2 1979 EU method C.5 EU Method C.6
Biological oxygen demand	No information available.
Chemical oxygen demand	No information available.

12.3. Bioaccumulative potential

Bioaccumulative potential	log Pow: <= 4,
Partition coefficient	log Pow: 0.05

12.4. Mobility in soil

Mobility	No information available.
Adsorption/desorption coefficient	No information available.
Henry's law constant	No information available.
Surface tension	No information available.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Other adverse effects	No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Disposal methods	Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company Empty/contaminated containers may contain product residues so should be disposed of in the same way as the product.
Waste class	16 03 05 The waste code classification is to be carried out according to the European Waste Catalogue (EWC).

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID)	1219
UN No. (IMDG)	1219
UN No. (ICAO)	1219

ISOPROPYL ALCOHOL

UN No. (ADN) 1219

14.2. UN proper shipping name

Proper shipping name (ADR/RID) ISOPROPANOL (ISOPROPYL ALCOHOL)

Proper shipping name (IMDG) ISOPROPANOL (ISOPROPYL ALCOHOL)

Proper shipping name (ICAO) ISOPROPANOL (ISOPROPYL ALCOHOL)

Proper shipping name (ADN) ISOPROPANOL (ISOPROPYL ALCOHOL)

14.3. Transport hazard class(es)

ADR/RID class 3

ADR/RID classification code F1

ADR/RID label 3

IMDG class 3

ICAO class/division 3

ADN class 3

Transport labels

14.4. Packing group

ADR/RID packing group II

IMDG packing group II

ADN packing group II

ICAO packing group II

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user

EmS F-E, S-D

ADR transport category 2

Emergency Action Code •2YE

Hazard Identification Number (ADR/RID) 33

Tunnel restriction code (D/E)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

SECTION 15: Regulatory information

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

National regulations No information available.

ISOPROPYL ALCOHOL

EU legislation	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). 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 (as amended).
Guidance	No information available.
Health and environmental listings	No information available.
Authorisations (Annex XIV Regulation 1907/2006)	No information available.
Restrictions (Annex XVII Regulation 1907/2006)	No information available.

15.2. Chemical safety assessment

No information available.

Inventories

EU - EINECS/ELINCS
No information available.

Canada - DSL/NDSL
No information available.

US - TSCA
No information available.

US - TSCA 12(b) Export Notification
No information available.

Australia - AICS
No information available.

Japan - ENCS
No information available.

Korea - KECI
No information available.

China - IECSC
No information available.

Philippines – PICCS
No information available.

New Zealand - NZIOC
No information available.

Taiwan - TCSI
No information available.

South Korea

SECTION 16: Other information

ISOPROPYL ALCOHOL

Abbreviations and acronyms used in the safety data sheet

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
CAS: Chemical Abstracts Service.
DNEL: Derived No Effect Level.
GHS: Globally Harmonized System.
IATA: International Air Transport Association.
ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.
IMDG: International Maritime Dangerous Goods.
Kow: Octanol-water partition coefficient.
LC_{50}: Lethal Concentration to 50 % of a test population.
LD_{50}: Lethal Dose to 50% of a test population (Median Lethal Dose).
PBT: Persistent, Bioaccumulative and Toxic substance.
PNEC: Predicted No Effect Concentration.
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.
vPvB: Very Persistent and Very Bioaccumulative.
BCF: Bioconcentration Factor.
BOD: Biochemical Oxygen Demand.
EC_{50}: 50% of maximal Effective Concentration.
LOAEC: Lowest Observed Adverse Effect Concentration.
LOAEL: Lowest Observed Adverse Effect Level.
NOAEC: No Observed Adverse Effect Concentration.
NOAEL: No Observed Adverse Effect Level.
NOEC: No Observed Effect Concentration.
LOEC: Lowest Observed Effect Concentration.
DMEL: Derived Minimal Effect Level.
M/I: Manufacturer / Importer
MSDS: Material Safety Data Sheet
SDS: Safety Data Sheet
OECD: Organization for Economic Co-operation and Development
PPE: Personal Protection Equipment
QSAR: Qualitative Structure Activity Relationship
PBT: Persistent, Bioaccumulative and Toxic substance
SCBA: Self-Contained Breathing Apparatus
STOT: Specific Target Organ Toxicity
STOT (RE): Repeated Exposure
STOT (SE): Single Exposure

General information

No information available.

Key literature references and sources for data

Source: European Chemicals Agency, http://echa.europa.eu/ Material Safety Data Sheet, Misc. manufacturers.

Classification procedures according to Regulation (EC) 1272/2008

No information available.

Training advice

No information available.

Revision comments

This is the first issue.

Revision date

09/02/2022

Revision

000

SDS number

23522

ISOPROPYL ALCOHOL

Hazard statements in full

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

PRODUCT SPECIFICATION

ISOPROPYL ALCOHOL

CAS NUMBER: 67-63-0
EC NUMBER: 200-661-7
REV: 00
DATE: 13.01.2022

CHARACTERISTIC	TEST METHOD	SPECIFICATION
COLOUR AND APPEARANCE		COLOURLESS LIQUID
PURITY WEIGHT (%wt)	GC	99.9 MIN
WATER (%wt)	KARL FISCHER	0.10 MAX
SULFIDE AS SULPHUR (ppm)	GB/T6324.4	2.0 MAX
CARBONYL AS ACETONE (%wt)	GB/T6324.5	0.02 MAX
ACIDITY AS ACETIC ACID (%wt)	VOLUMETRIC PRECIPITATION METHOD	0.002 MAX
NON-VOLATILE RESIDUE (%wt)	GB/T6324.2	0.002 MAX
COLOUR (APHA)	PLATINUM-COLBALT METHOD	10 MAX
DENSITY AT 20°C (g/cm³)	AREOMETER	0.784-0.786
BENZEN PARAMETER (ppm)	GC	2 MAX

APPLICATIONS:

Applications of IPA include pharmaceuticals, cosmetics, plastics, fragrances and paint. It is also used in the electronics industry as a dehydrating and cleaning agent.

STORAGE & PACKAGING:

Store in a cool, dry place, away from direct sunlight.
Packed in 800kg IBCs.

VEGAN SUITABILITY STATEMENT

ISOPROPYL ALCOHOL

CAS NUMBER
67-63-0

EC NUMBER
200-661-7

CHEMICAL NAME
PROPAN-2-OL

We hereby confirm that, to the best of our knowledge, the whole production process of the above material, and the end product, is not processed with any animal products, and is suitable for a vegetarian and vegan use.

MAY 2022