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MATERIAL SAFETY DATA SHEET

For

IPA 70% Products

This Safety Data Sheet covers products

Product Name	Item Numbers
Isopropanol 70% v/v in WFI Quality Water	all ranges
Sterile Alcohol 70% v/v – 70 % IPA in WFI	all ranges
IPA 70% in WFI (Filtered) – 5 L	5570
Non-Sterile IPA 70% in WFI – 1L / 5L	1215 / 1214
Sterile Alcohol T/Spray IPA – 900 ml	105666
Sterile IPA 70% Venting T/Sprays – 900 ml	105668
Sterile Alcohol T/Spray IPA – 450 ml	105674
Isopropanol 70% v/v – 4 * 4.3 kg	37401
Isopropanol 70% v/v 0.2 µm Filtered – 20 kg	37406 / 37402
Isopropanol 70% v/v in WFI – 860 kg Per IBC	37404 / 37407 / 37409 / 37405

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

1.1. Product identifier

Product name: ISOPROPANOL 70% (WFI GRADE)

Synonyms: ISOPROPYL ALCOHOL 70%

ISOPROPANOL 70% V/V (0.2 MICRON FILTERED IN WFI GARDE)

IPA 70% SOLUTION

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

Use of substance / mixture: Cleaning

1.3. Details of the supplier of the safety data sheet

Company name: Agma Ltd

Gemini Works

Haltwhistle

Northumberland

NE49 9HA

UK

Tel: Tel: +44(0) 1434 320598

Fax: Fax: +44(0) 1434 321650

Email: sds@agma.co.uk

1.4. Emergency telephone number

Emergency tel: Tel: +44(0) 1434 320598

Monday - Thursday : 8:30 - 17:00 (GMT)

Friday: 8:30 - 14:30(GMT)

(office hours only)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: STOT SE 3: H336; Eye Irrit. 2: H319; Flam. Liq. 1: H224

Most important adverse effects: Extremely flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness or dizziness.

2.2. Label elements

Label elements:

Hazard statements: H224: Extremely flammable liquid and vapour.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

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Hazard pictograms: GHS02: Flame
GHS07: Exclamation mark



Signal words: Danger

Precautionary statements: P280: Wear protective gloves/protective clothing/eye protection/face protection.
P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+351+338: 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 CENTER/doctor if you feel unwell.
P370+378: In case of fire: Use alcohol resistant foam, carbon dioxide or dry chemical powder to extinguish.

2.3. Other hazards

Other hazards: In use, may form flammable / explosive vapour-air mixture.

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

PROPAN-2-OL

EINECS	CAS	PBT / WEL	CLP Classification	Percent
200-661-7	67-63-0	-	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336	50-70%

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water. Seek medical aid if irritation or discomfort persists.

Eye contact: Promptly wash eyes with plenty of water while lifting the eye lids. Remove any contact lenses from the eyes. Continue to rinse for at least 15 minutes. Obtain medical attention if any discomfort continues.

Ingestion: Wash out mouth with water. Do not induce vomiting. If patient is conscious, give water to drink. Consult a doctor.

Inhalation: If liquid has entered the lungs, consult a doctor immediately.

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

Skin contact: There may be irritation and redness at the site of contact. Prolonged or repeated exposure may cause de-fatting of the skin and/or dermatitis.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. May cause nausea, abdominal discomfort, vomiting, and gastrointestinal irritation; headache, dizziness, mental depression, narcosis, anesthesia, coma. Ingestion of large amounts (100ml) may lead to death.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing. Vapours may cause drowsiness and dizziness. May cause symptoms similar to those of ingestion.

Delayed / immediate effects: No data available.

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

Immediate / special treatment: No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this product. If in doubt, GET MEDICAL ATTENTION PROMPTLY.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Alcohol resistant foam. Carbon dioxide. Dry chemical powder. Sand. Use water spray to cool containers.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: Flammable. In combustion emits toxic fumes. Forms explosive air-vapour mixture.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details.

6.2. Environmental precautions

Environmental precautions: Do not allow to enter drains, sewers or watercourses. Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Do not use equipment in clean-up procedure which may produce sparks.

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6.4. Reference to other sections

Reference to other sections: Refer to section 13 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Do not handle in a confined space. Ensure there is sufficient ventilation of the area.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, dry conditions in original containers. Keep container tightly closed. Keep away from sources of ignition.

Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

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

Section 8: Exposure controls/personal protection

8.1. Control parameters

Hazardous ingredients:

PROPAN-2-OL

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	999 mg/m ³	1250 mg/m ³	-	-

DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition.

Respiratory protection: No specific recommendations made, but respiratory protection must be used if the general level exceeds the recommended work place exposure limit. Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Protective gloves.

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Protective clothing.

Environmental: Wash hands at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke.

Section 9: Physical and chemical properties

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9.1. Information on basic physical and chemical properties

State: Liquid
Colour: Colourless
Odour: Alcoholic
Solubility in water: Soluble
Viscosity: Non-viscous
Flash point°C: 20.5
Relative density: 0.872-0.883

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions. Stable at room temperature.

10.3. Possibility of hazardous reactions

Hazardous reactions: None Known.

10.4. Conditions to avoid

Conditions to avoid: Heat. Hot surfaces. Sources of ignition. Flames. Avoid temperatures above 35°C, direct sunlight and contact with sources of heat.

10.5. Incompatible materials

Materials to avoid: Strong acids. Aldehydes. Amines. Strong oxidising substances. Other halogenated organics.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

PROPAN-2-OL

Acute dermal toxicit	RBT	LD50	>2000	mg/kg
Acute inhalation tox	RAT	8H LC50	>20	mg/l
Acute oral toxicity	RAT	LD50	>2000	mg/kg

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Relevant hazards for product:

Hazard	Route	Basis
Serious eye damage/irritation	OPT	Hazardous: calculated
STOT-single exposure	-	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact. Prolonged or repeated exposure may cause de-fatting of the skin and/or dermatitis.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. May cause nausea, abdominal discomfort, vomiting, and gastrointestinal irritation; headache, dizziness, mental depression, narcosis, anesthesia, coma. Ingestion of large amounts (100ml) may lead to death.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing. Vapours may cause drowsiness and dizziness. May cause symptoms similar to those of ingestion.

Delayed / immediate effects: No data available.

Section 12: Ecological information

12.1. Toxicity

Hazardous ingredients:

PROPAN-2-OL

Leuciscus idus melanotus	48H LC50	>100	mg/l
Scenedesmus subspicatus	72H EC50	>100	mg/l
Daphnia magna	48H EC50	>100	mg/l

12.2. Persistence and degradability

Persistence and degradability: Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil

Mobility: Soluble in water.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Negligible ecotoxicity.

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Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company. Dispose of waste and residues in accordance with local authority requirements.

Recovery operations: Not applicable.

Disposal of packaging: Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. Packagings that cannot be cleaned are to be disposed of in the same manner as the product.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN1219

14.2. UN proper shipping name

Shipping name: ISOPROPANOL (ISOPROPYL ALCOHOL)

14.3. Transport hazard class(es)

Transport class: 3

14.4. Packing group

Packing group: II

14.5. Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

14.6. Special precautions for user

Special precautions: This Product, unopened and in original packaging is classified as Limited Quantity for the purpose of transport and does not require a UN number on the packaging. Limited Quantity for this product is 1 L.

Tunnel code: D/E

Transport category: 2

Section 15: Regulatory information

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

Specific regulations: Approved Code Of Practice : Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

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Section 16: Other information

Other information

Other information: The information in this Safety Data Sheet is based on data provided by chemical Suppliers/Manufacturers and the use of Lycos SDS-generating program. This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our product in the view of safety requirements and does not guarantee any particular properties.

Phrases used in s.2 and s.3: H224: Extremely flammable liquid and vapour.
H225: Highly flammable liquid and vapour.
H319: Causes serious eye irritation.
H336: May cause drowsiness or dizziness.

Legal 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. This company shall not be held liable for any damage resulting from handling or from contact with the above product.