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MATERIAL SAFETY DATA SHEET

For

IPA 99 Products

This Safety Data Sheet covers products

| Product Name | Item Numbers |
|---|---------------------|
| Isopropanol 99 | all ranges |
| Non Sterile IPA 99 - 5 L | 1216 |
| Non Sterile IPA 99 - 1 L | 1217 |
| Isopropanol 99 – 20 kg | 47602 |
| Isopropanol 99 – 15 x 750 ml T/S Per Case | 47664 |

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

1.1. Product identifier

Product name: ISOPROPANOL 99

CAS number: 67-63-0

EINECS number: 200-661-7

Synonyms: PROPAN-2-OL 99.7%

ISOPROPANOL 99.7%

ISOPROPYL ALCOHOL 99.7% / ISOPROPYL ALCOHOL 99%

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

Use of substance / mixture: Cleaning - Hard Surface - All Sectors

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 CHIP: F: R11; Xi: R36; -: R67

Classification under CLP: STOT SE 3: H336; Eye Irrit. 2: H319; Flam. Liq. 2: H225

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

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2.2. Label elements

Label elements:

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

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 if you feel unwell.
P370+378: In case of fire: Use Water spray, Alcohol-resistant foam, Dry powder, Carbon dioxide (CO₂) in enclosed spaces to extinguish.

Label elements under CHIP:

Hazard symbols: Highly flammable.
Irritant.



Risk phrases: R11: Highly flammable.
R36: Irritating to eyes.
R67: Vapours may cause drowsiness and dizziness.

Safety phrases: S2: Keep out of the reach of children.
S7: Keep container tightly closed.
S16: Keep away from sources of ignition - No smoking.
S24/25: Avoid contact with skin and eyes.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

2.3. Other hazards

Other hazards: In use, may form flammable / explosive vapour-air mixture. Vapours may cause drowsiness and dizziness. If swallowed, may be aspirated and cause lung damage.

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

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Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

PROPAN-2-OL

| EINECS | CAS | CHIP Classification | CLP Classification | Percent |
|-----------|---------|-------------------------|--|---------|
| 200-661-7 | 67-63-0 | F: R11; Xi: R36; -: R67 | Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336 | >90% |

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

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: Provide rest, warmth and fresh air. Immediately rinse mouth and drink plenty of water (200-300 ml). Get medical attention.

Inhalation: Move the exposed person to fresh air at once. Get medical attention.

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 moderate amounts (<50ml) 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. Central nervous system depression. May cause symptoms similar to those of ingestion. Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema.

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.

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Section 5: Fire-fighting measures

5.1. Extinguishing media

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

5.2. Special hazards arising from the substance or mixture

Exposure hazards: Highly flammable. In combustion emits toxic fumes. Forms explosive air-vapour mixture. Vapours are heavier than air and may spread near ground to sources of ignition. Vapour may travel considerable distance to source of ignition and flash back.

5.3. Advice for fire-fighters

Advice for fire-fighters: 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 precautions: Refer to section 8 of SDS for personal protection details. Take precautionary measures against static discharges. Provide adequate ventilation.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Wear necessary protective equipment. Remove sources of ignition. Absorb with inert, damp, non-combustible material, then flush area with water. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Do not use equipment in clean-up procedure which may produce sparks.

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: Mechanical ventilation or local exhaust ventilation is required. Avoid direct contact with the substance. Do not handle in a confined space. Avoid the formation or spread of mists in the air. Smoking is forbidden.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed. Keep away from sources of ignition. Ensure lighting and electrical equipment are not a source of ignition.

Suitable packaging: Must only be kept in original packaging.

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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. Use explosion-proof ventilation equipment. 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: Nitrile gloves.

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

Skin protection: Protective clothing. Rubber apron. Rubber boots.

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

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Colourless

Odour: Alcoholic

Evaporation rate: 1.2

Solubility in water: Soluble

Viscosity: 2.65 cSt @20

Boiling point/range°C: 82-83

upper: 12.7

Autoflammability°C: >350

Relative density: ~0.786@20

Flammability limits %: lower: 2

Flash point°C: 12

Vapour pressure: 4.3 kPa 20

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9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Reacts with strong acids and strong oxidising agents.

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: Aldehydes. Amines. Strong oxidising substances. Other halogenated organics.
Caustics.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

Section 11: Toxicological information

11.1. Information on toxicological effects

* Toxicity values:

| Route | Species | Test | Value | Units |
|----------------------|---------|---------|-------|-------|
| 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 |

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 |

[cont...]

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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 moderate amounts (<50ml) 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. Central nervous system depression. May cause symptoms similar to those of ingestion. Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema.

Delayed / immediate effects: No data available.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values:

| Species | Test | Value | Units |
|--------------------------|----------|-------|-------|
| Leuciscus idus melanotus | 48H LC50 | >100 | mg/l |
| Scenedesmus subspicatus | 72H EC50 | >100 | mg/l |
| Daphnia magna | 48H EC50 | >100 | mg/l |

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.

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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.

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: Do not puncture or incinerate even when empty. Empty Container Warning Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

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

[cont...]

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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. Candidate List of Substances of Very High Concern for Authorisation: This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

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.

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: H225: Highly flammable liquid and vapour.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

R11: Highly flammable.

R36: Irritating to eyes.

R67: Vapours may cause drowsiness and 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.