

### SECTION 1: Identification

#### 1.1. Product identifier

|              |                                   |
|--------------|-----------------------------------|
| Trade name   | : PROPAN-2-OL (ISOPROPANOL) 99%   |
| EC-No.       | : 200-661-7                       |
| EC Index-No. | : 603-117-00-0                    |
| CAS-No.      | : 67-63-0                         |
| UN-No. (ADR) | : 1219                            |
| Product code | : 116210xxx                       |
| Formula      | : C <sub>3</sub> H <sub>8</sub> O |

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

|                                   |                           |
|-----------------------------------|---------------------------|
| Recommended uses and restrictions | : For laboratory use only |
|-----------------------------------|---------------------------|

#### 1.3. Supplier's details

Labchem (Pty)Ltd  
 6 Wakefield Road  
 Founders Hill  
 1609 Johannesburg - South Africa  
 T +27 11 452 1116 - F +27 86 588 0293  
[techlab@labchem.co.za](mailto:techlab@labchem.co.za) - [www.labchem.co.za](http://www.labchem.co.za)

#### 1.4. Emergency telephone number

|                  |                   |
|------------------|-------------------|
| Emergency number | : +27 11 452 1116 |
|------------------|-------------------|

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to the United Nations GHS

|  |      |
|--|------|
| Flammable liquids, Category 2  | H225 |
| Acute toxicity (oral) Not classified                                   |      |
| Acute toxicity (dermal) Not classified                                 |      |
| Serious eye damage/eye irritation, Category 2A                         | H319 |
| Specific target organ toxicity — Single exposure, Category 3, Narcosis | H336 |
| Hazardous to the aquatic environment - Acute Hazard Not classified     |      |
| Full text of H statements : see section 16                             |      |

#### 2.2. Label elements

##### Labelling according to the United Nations GHS

Hazard pictograms (GHS-ZA) :



GHS02

GHS07

|                                   |  |
|-----------------------------------|--|
| Signal word (GHS-ZA)              | : Danger   |
| Hazard statements (GHS-ZA)        | : H225 - Highly flammable liquid and vapour.<br>H319 - Causes serious eye irritation.<br>H336 - May cause drowsiness or dizziness.   |
| Precautionary statements (GHS-ZA) | : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.<br>P233 - Keep container tightly closed.<br>P240 - Ground and bond container and receiving equipment.<br>P241 - Use explosion-proof equipment.<br>P242 - Use non-sparking tools.<br>P243 - Take action to prevent static discharges.<br>P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.<br>P264 - Wash hands, forearms and face thoroughly after handling.<br>P271 - Use only outdoors or in a well-ventilated area.<br>P280 - Wear protective gloves/protective clothing/eye protection/face protection.<br>P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.<br>P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.<br>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove |

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contact lenses, if present and easy to do. Continue rinsing.  
P312 - Call a POISON CENTER or doctor if you feel unwell.  
P337+P313 - If eye irritation persists: Get medical advice/attention.  
P370+P378 - In case of fire: Use media other than water 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 to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards

Adverse physicochemical, human health and environmental effects : Highly flammable liquid and vapour, May cause drowsiness or dizziness, Causes serious eye irritation.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Substance identification codes: See section 1.1

| Name                             | Product identifier | %    | Classification according to the United Nations GHS   |
|----------------------------------|--------------------|------|--|
| 2-propanol<br>(Main constituent) | (CAS-No.) 67-63-0  | ≥ 99 | Flam. Liq. 2, H225<br>Acute Tox. Not classified (Oral)<br>Acute Tox. Not classified (Dermal)<br>Eye Irrit. 2A, H319<br>STOT SE 3, H336<br>Aquatic Acute Not classified |

Full text of H-statements: see section 16

### 3.2. Mixtures

Not applicable

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital. Never give alcohol to drink. Call a poison center or a doctor if you feel unwell.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

First-aid measures after skin contact : Rinse with water. Soap may be used. Do not apply (chemical) neutralizing agents without medical advice. Take victim to a doctor if irritation persists. Rinse skin with water/shower. Take off immediately all contaminated clothing.

First-aid measures after eye contact : Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply (chemical) neutralizing agents without medical advice. Take victim to an ophthalmologist if irritation persists. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth with water. Do not apply (chemical) neutralizing agents without medical advice. Call Poison Information Centre ([www.big.be/antigif.html](http://www.big.be/antigif.html)). Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital. Take the container/vomit to the doctor/hospital. Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects : May cause drowsiness or dizziness.

Symptoms/effects after inhalation : EXPOSURE TO HIGH CONCENTRATIONS: Headache. Dizziness. Coughing. Dry/sore throat. Central nervous system depression. Narcosis. Drowsiness.

Symptoms/effects after skin contact : Not irritating.

Symptoms/effects after eye contact : Irritation of the eye tissue. Redness of the eye tissue. Eye irritation.

Symptoms/effects after ingestion : AFTER INGESTION OF HIGH QUANTITIES: FOLLOWING SYMPTOMS MAY APPEAR LATER: Nausea. Headache. Vomiting. Disturbances of consciousness. Central nervous system depression. Abdominal pain. Disturbed motor response. Low arterial pressure. Dilatation of the blood vessels. Body temperature fall. Slowing respiration.

Chronic symptoms : Skin rash/inflammation. Dry skin. Red skin. Cracking of the skin. Itching. Impaired memory.

Potential adverse human health effects and symptoms : Non-toxic if swallowed (LD50 oral, rat > 5000 mg/kg). Not irritant to skin. Non-toxic in contact with skin (LD50 skin > 5000 mg/kg). May cause drowsiness or dizziness. Causes serious eye irritation.

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

Treat symptomatically.

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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : Quick-acting ABC powder extinguisher. Quick-acting BC powder extinguisher. Quick-acting class B foam extinguisher. Quick-acting CO2 extinguisher. Class B foam (alcohol-resistant). Water spray if puddle cannot expand. Water spray. Dry powder. Foam. Carbon dioxide.
- Unsuitable extinguishing media : Water (quick-acting extinguisher, reel); risk of puddle expansion. Water; risk of puddle expansion.

#### 5.2. Special hazards arising from the substance or mixture

- Fire hazard : DIRECT FIRE HAZARD: Highly flammable liquid and vapour. Gas/vapour flammable with air within explosion limits. INDIRECT FIRE HAZARD: May be ignited by sparks. Gas/vapour spreads at floor level: ignition hazard. Highly flammable liquid and vapour.
- Explosion hazard : DIRECT EXPLOSION HAZARD: Gas/vapour explosive with air within explosion limits. INDIRECT EXPLOSION HAZARD: may be ignited by sparks. Reactions with explosion hazards: see "Reactivity Hazard".
- Hazardous decomposition products in case of fire : Upon combustion: CO and CO2 are formed.

#### 5.3. Advice for firefighters

- Firefighting instructions : Cool tanks/drums with water spray/remove them into safety. Do not move the load if exposed to heat.
- Protection during firefighting : Heat/fire exposure: compressed air apparatus (EN 136 + EN 137). Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

No additional information available

##### 6.1.1. For non-emergency personnel

- Protective equipment : Gloves (EN 374). Protective goggles (EN 166). Protective clothing (EN 14605 or EN 13034). Large spills/in enclosed spaces: compressed air apparatus (EN 136 + EN 137).
- Emergency procedures : Ventilate spillage area. Keep upwind. Mark the danger area. Consider evacuation. Seal off low-lying areas. Close doors and windows of adjacent premises. Stop engines and no smoking. No naked flames or sparks. Spark- and explosionproof appliances and lighting equipment. Keep containers closed. Wash contaminated clothes. No open flames, no sparks, and no smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

##### 6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment. Prevent spreading in sewers.

#### 6.3. Methods and material for containment and cleaning up

- For containment : Contain released product, pump into suitable containers. Plug the leak, cut off the supply. Dam up the liquid spill. Try to reduce evaporation. Measure the concentration of the explosive gas-air mixture. Dilute/disperse combustible gas/vapour with water curtain. Provide equipment/receptacles with earthing. Do not use compressed air for pumping over spills.
- Methods for cleaning up : Take up liquid spill into absorbent material. Take up liquid spill into absorbent material, e.g.: dry sand/earth/vermiculite or powdered limestone. Scoop absorbed substance into closing containers. Damaged/cooled tanks must be emptied. Do not use compressed air for pumping over spills. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling. Notify authorities if product enters sewers or public waters.
- Other information : Dispose of materials or solid residues at an authorized site.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Use spark-/explosionproof appliances and lighting system. Take precautions against electrostatic charges. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Measure the concentration in the air regularly. Work under local exhaust/ventilation. Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Handle uncleaned empty containers as full ones. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Do not use compressed air for pumping over. Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

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Hygiene measures : Observe normal hygiene standards. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ground/bond container and receiving equipment.  
Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.  
Storage area : Store in a cool area. Store in a dry area. Ventilation at floor level. Fireproof storeroom. Provide for an automatic sprinkler system. Provide for a tub to collect spills. Provide the tank with earthing. May be stored under nitrogen. Meet the legal requirements.  
Heat and ignition sources : KEEP SUBSTANCE AWAY FROM: heat sources. ignition sources.  
Information on mixed storage : KEEP SUBSTANCE AWAY FROM: oxidizing agents. (strong) acids. (strong) bases. amines. halogens.  
Special rules on packaging : SPECIAL REQUIREMENTS: closing. with pressure relief valve. dry. clean. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.  
Packaging materials : SUITABLE MATERIAL: stainless steel. monel steel. carbon steel. copper. nickel. bronze. glass. Teflon. polyethylene. polypropylene. zinc. MATERIAL TO AVOID: steel with rubber inner lining. aluminium.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| PROPAN-2-OL (ISOPROPANOL) 99% (67-63-0)                          |  |
|--|--|
| South Africa - Occupational Exposure Limits (Recommended Limits) |  |
| Local name   | Propan-2-ol (Isopropyl alcohol)  |
| OEL TWA (mg/m <sup>3</sup> )                                     | 960 mg/m <sup>3</sup> Isopropyl alcohol<br>980 mg/m <sup>3</sup> Propan-2-ol |
| OEL TWA (ppm)  | 400 ppm  |
| OEL STEL (mg/m <sup>3</sup> )                                    | 1225 mg/m <sup>3</sup>   |
| OEL STEL (ppm)   | 500 ppm  |
| Remark   | Sk   |
| Regulatory reference   | Government Notice. R: 1179   |

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.  
Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures, such as personal protective equipment (PPE)

Materials for protective clothing : GIVE EXCELLENT RESISTANCE: butyl rubber. nitrile rubber. viton. polyethylene/ethylenevinylalcohol. GIVE GOOD RESISTANCE: neoprene. chloroprene rubber. GIVE LESS RESISTANCE: PVC. neoprene/natural rubber. GIVE POOR RESISTANCE: natural rubber. polyethylene. PVA  
Hand protection : Protective gloves  
Skin and body protection : Protective clothing (EN 14605 or EN 13034)  
Respiratory protection : Full face mask with filter type A at conc. in air > exposure limit

#### Personal protective equipment symbol(s):



### 8.4. Exposure limit values for the other components

No additional information available

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid  
Appearance : Liquid.  
Molecular mass : 60.1 g/mol  
Colour : Colourless.  
Odour : Alcohol odour. Stuffy odour. Mild odour.  
Odour threshold : No data available  
pH : Not applicable

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According to SANS 10234:2019 and SANS 11014:2010

|   |   |
|---|---|
| pH solution                                     | : No data available   |
| Relative evaporation rate (butylacetate=1)      | : 2.3   |
| Relative evaporation rate (ether=1)             | : 21  |
| Melting point                                   | : -89 °C  |
| Freezing point                                  | : No data available   |
| Boiling point                                   | : 82 °C (1013 hPa)  |
| Flash point                                     | : 12 °C   |
| Critical temperature                            | : 235 °C  |
| Auto-ignition temperature                       | : 399 °C  |
| Decomposition temperature                       | : No data available   |
| Flammability (solid, gas)                       | : Not applicable  |
| Vapour pressure                                 | : 44 hPa (20 °C)  |
| Vapour pressure at 50 °C                        | : 229 hPa   |
| Critical pressure                               | : 47600 hPa   |
| Relative vapour density at 20 °C                | : 2.1   |
| Relative density                                | : 0.8 (20 °C)   |
| Relative density of saturated gas/air mixture   | : 1.05  |
| Density   | : 785 kg/m <sup>3</sup>   |
| Relative gas density                            | : No data available   |
| Solubility                                      | : Miscible with water. Soluble in ethanol. Soluble in ether. Soluble in acetone. Soluble in oils/fats.<br>Soluble in chloroform.<br>Water: miscible<br>Ethanol: complete<br>Ether: complete<br>Acetone: soluble |
| Partition coefficient n-octanol/water (Log Pow) | : 0.05 (Weight of evidence approach, 25 °C)   |
| Partition coefficient n-octanol/water (Log Kow) | : No data available   |
| Viscosity, kinematic                            | : 2.532 mm <sup>2</sup> /s (25 °C)  |
| Viscosity, dynamic                              | : 2.1 mPa·s (25 °C)   |
| Explosive properties                            | : No data available   |
| Oxidising properties                            | : No data available   |
| Explosive limits                                | : 2 – 13 vol %  |
| Lower explosive limit (LEL)                     | : 2 vol %   |
| Upper explosive limit (UEL)                     | : 13 vol %  |

### 9.2. Other information

|                          |   |
|--------------------------|---|
| Minimum ignition energy  | : 0.65 mJ   |
| Specific conductivity    | : 350000000 pS/m (25 °C)                                |
| Saturation concentration | : 106 g/m <sup>3</sup>                                  |
| VOC content              | : 100 %   |
| Other properties         | : Gas/vapour heavier than air at 20°C. Clear. Volatile. |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Violent to explosive reaction with (strong) oxidizers. Prolonged storage/in large quantities: may form peroxides. Highly flammable liquid and vapour.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

|                       |                   |
|-----------------------|-------------------|
| Acute toxicity (oral) | : Not classified. |
|-----------------------|-------------------|

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Acute toxicity (dermal) : Not classified.

Acute toxicity (inhalation) : Not classified

### PROPAN-2-OL (ISOPROPANOL) 99% (67-63-0)

|                           |  |
|---------------------------|--|
| LD50 oral rat             | 5840 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Experimental value, Oral, 14 day(s))                            |
| LD50 dermal rabbit        | 16400 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Experimental value, Dermal, 14 day(s))                |
| LC50 inhalation rat (ppm) | > 10 000 ppm (Equivalent or similar to OECD 403, 6 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s)) |

Skin corrosion/irritation : Not classified

pH: Not applicable

Serious eye damage/irritation : Causes serious eye irritation.

pH: Not applicable

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : May cause drowsiness or dizziness.

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

### PROPAN-2-OL (ISOPROPANOL) 99% (67-63-0)

|                      |                                  |
|----------------------|----------------------------------|
| Viscosity, kinematic | 2.532 mm <sup>2</sup> /s (25 °C) |
|----------------------|----------------------------------|

Potential adverse human health effects and symptoms : Non-toxic if swallowed (LD50 oral, rat > 5000 mg/kg). Not irritant to skin. Non-toxic in contact with skin (LD50 skin > 5000 mg/kg). May cause drowsiness or dizziness. Causes serious eye irritation.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008.

Ecology - air : Not included in the list of substances which may contribute to the greenhouse effect (IPCC). Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014). Photooxidation in the air. Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).

Ecology - water : Not harmful to crustacea. Not harmful to fishes. Groundwater pollutant. Inhibition of activated sludge. Not harmful to algae. Not harmful to bacteria.

Hazardous to the aquatic environment, short-term (acute) : Not classified.

Hazardous to the aquatic environment, long-term (chronic) : Not classified

### PROPAN-2-OL (ISOPROPANOL) 99% (67-63-0)

|   |  |
|---|--|
| LC50 fish 1                                     | 9640 – 10000 mg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value, Lethal) |
| Partition coefficient n-octanol/water (Log Pow) | 0.05 (Weight of evidence approach, 25 °C)  |
| Partition coefficient n-octanol/water (Log Koc) | 0.185 – 0.541 (log Koc, SRC PCKOCWIN v2.0, Calculated value)   |

### 12.2. Persistence and degradability

#### PROPAN-2-OL (ISOPROPANOL) 99% (67-63-0)

|                                 |  |
|---------------------------------|--|
| Persistence and degradability   | Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Readily biodegradable in water. |
| Biochemical oxygen demand (BOD) | 1.19 g O <sub>2</sub> /g substance   |
| Chemical oxygen demand (COD)    | 2.23 g O <sub>2</sub> /g substance   |
| ThOD                            | 2.4 g O <sub>2</sub> /g substance  |

### 12.3. Bioaccumulative potential

#### PROPAN-2-OL (ISOPROPANOL) 99% (67-63-0)

|   |  |
|---|--|
| Partition coefficient n-octanol/water (Log Pow) | 0.05 (Weight of evidence approach, 25 °C)                    |
| Partition coefficient n-octanol/water (Log Koc) | 0.185 – 0.541 (log Koc, SRC PCKOCWIN v2.0, Calculated value) |
| Bioaccumulative potential                       | Low potential for bioaccumulation (Log Kow < 4).             |

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According to SANS 10234:2019 and SANS 11014:2010

### 12.4. Mobility in soil

| PROPAN-2-OL (ISOPROPANOL) 99% (67-63-0)         |  |
|---|--|
| Mobility in soil                                | No additional information available                          |
| Surface tension                                 | 0.021 N/m (25 °C)  |
| Partition coefficient n-octanol/water (Log Pow) | 0.05 (Weight of evidence approach, 25 °C)                    |
| Partition coefficient n-octanol/water (Log Koc) | 0.185 – 0.541 (log Koc, SRC PCKOCWIN v2.0, Calculated value) |
| Ecology - soil                                  | Highly mobile in soil.                                       |

### 12.5. Other adverse effects

|                       |                                       |
|-----------------------|---------------------------------------|
| Ozone                 | : Not classified                      |
| Other adverse effects | : No additional information available |




## SECTION 13: Disposal considerations

### 13.1. Disposal methods

|  |  |
|--|--|
| Waste treatment methods                    | : Dispose of contents/container in accordance with licensed collector's sorting instructions.  |
| Product/Packaging disposal recommendations | : Do not discharge into drains or the environment. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle by distillation. Incinerate under surveillance with energy recovery. Obtain the consent of pollution control authorities before discharging to wastewater treatment plants. |
| Additional information                     | : Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997. Flammable vapours may accumulate in the container.  |

## SECTION 14: Transport information

In accordance with SANS / IMDG / IATA

| SANS   | IMDG  | IATA  |
|--|---|---|
| <b>14.1. UN number</b>   |   |   |
| 1219   | 1219  | 1219  |
| <b>14.2. Proper Shipping Name</b>  |   |   |
| ISOPROPANOL (ISOPROPYL ALCOHOL)  | ISOPROPANOL (ISOPROPYL ALCOHOL)   | Isopropanol   |
| <b>14.3. Transport hazard class(es)</b>  |   |   |
| 3  | 3   | 3   |
|  |  | <br>Not applicable |
| <b>14.4. Packing group</b>   |   |   |
| II   | II  | II  |
| <b>14.5. Environmental hazards</b>   |   |   |
| Dangerous for the environment : No   | Dangerous for the environment : No  | Dangerous for the environment : No  |
| No supplementary information available   |   |   |

### 14.6. Special precautions for user

#### - SANS

|  |                             |
|--|-----------------------------|
| Transport regulations (UN)                                 | : Subject to the provisions |
| Limited quantities (SANS)                                  | : 1 L                       |
| Limited quantities (SANS)                                  | : 1 L                       |
| Packagings, large packagings and IBCs                      | : P001, IBC02               |
| Packing instructions (SANS)                                |                             |
| Portable tank and bulk containers instructions (SANS)      | : T4                        |
| Portable tank and bulk container special provisions (SANS) | : TP1                       |

#### - IMDG

|                              |                             |
|------------------------------|-----------------------------|
| Transport regulations (IMDG) | : Subject to the provisions |
|------------------------------|-----------------------------|



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According to SANS 10234:2019 and SANS 11014:2010

|                                    |   |
|------------------------------------|---|
| Limited quantities (IMDG)          | : 1 L   |
| Excepted quantities (IMDG)         | : E2  |
| Packing instructions (IMDG)        | : P001  |
| IBC packing instructions (IMDG)    | : IBC02   |
| Tank instructions (IMDG)           | : T4  |
| Tank special provisions (IMDG)     | : TP1   |
| EmS-No. (Fire)                     | : F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS                                   |
| EmS-No. (Spillage)                 | : S-D - SPILLAGE SCHEDULE Delta - FLAMMABLE LIQUIDS   |
| Stowage category (IMDG)            | : B   |
| Flash point (IMDG)                 | : 12°C c.c.   |
| Properties and observations (IMDG) | : Colourless, mobile liquid. Flashpoint: 12°C c.c. Explosive limits: 2% to 12% Miscible with water. |

### - IATA

|  |                             |
|--|-----------------------------|
| Transport regulations (IATA)                 | : Subject to the provisions |
| PCA Excepted quantities (IATA)               | : E2                        |
| PCA Limited quantities (IATA)                | : Y341                      |
| PCA limited quantity max net quantity (IATA) | : 1L                        |
| PCA packing instructions (IATA)              | : 353                       |
| PCA max net quantity (IATA)                  | : 5L                        |
| CAO packing instructions (IATA)              | : 364                       |
| CAO max net quantity (IATA)                  | : 60L                       |
| Special provisions (IATA)                    | : A180                      |
| ERG code (IATA)                              | : 3L                        |

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health, and environmental national regulations specific for the product

|                      |   |
|----------------------|---|
| Regulatory reference | : SANS 10234:2008; SANS 11014:2010; SANS 10228:2012;SANS 10229:2010; SANS 10232(1,2,4), SANS 10231:2018; Occupational Health and Safety Act 85 of 1993; National Road Traffic Act 93 of 1996. |
|----------------------|---|

## SECTION 16: Other information

|               |              |
|---------------|--------------|
| Issue date    | : 01/07/2020 |
| Revision date | : 01/07/2025 |

Full text of H-statements:

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

SDS South Africa

*The data provided in this Safety Data Sheet (SDS) is correct to the best of our knowledge. The data relates to the specific product as named and is intended as a guide to the safe handling of the product in all its facets. The data may no longer be valid if the product is used in any process or in combination with other products. This SDS is not a quality specification nor any form of guarantee.*