

## SECTION 1: Identification

### 1.1. Product identifier

Product form	: Substance
Trade name	: Pentylol
Substance type	: Mono-constituent
Type of product	: Solvents
Product code	: 2060
Product group	: End product

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

Use of the substance/mixture	:
Recommended uses and restrictions	: Synthesis
Recommended use	: Industrial uses

### 1.3. Supplier's details

#### Distributor

Rolfes Chemicals Pty Ltd  
Cnr Brammer and strachan street  
P.O. Box 14075, Wadeville  
1422 Germiston JHB – South Africa Gauteng  
South Africa  
T +27 11 873 0157

### 1.4. Emergency telephone number

Emergency number : 0861114753

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to the United Nations GHS

Flammable liquids, Category 3	H226
Acute toxicity (oral), Category 2	H300
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 1	H318
Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	H335
Specific target organ toxicity – Repeated exposure, Category 2	H373
Hazardous to the aquatic environment – Acute Hazard, Category 2	H401
Full text of H-statements: see section 16	

### 2.2. Label elements

#### Labelling according to the United Nations GHS

Hazard pictograms (GHS ZA) :



Signal word (GHS-ZA) :

Danger

Hazard statements (GHS ZA) :

H226 - Flammable liquid and vapour  
H300 - Fatal if swallowed  
H315 - Causes skin irritation  
H318 - Causes serious eye damage  
H335 - May cause respiratory irritation

# Pentylol

## Safety Data Sheet

According to SANS 10234:2019 and SANS 11014:2010

### Precautionary statements (GHS ZA)

H373 - May cause damage to organs through prolonged or repeated exposure  
H401 - Toxic to aquatic life

: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.  
No smoking.  
P233 - Keep container tightly closed.  
P240 - Ground and bond container and receiving equipment.  
P241 - Use explosion-proof equipment.  
P242 - Use non-sparking tools.  
P243 - Take action to prevent static discharges.  
P260 - Do not breathe dusts or mists.  
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 - Wash ... thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P271 - Use only outdoors or in a well-ventilated area.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/....  
P301+P316 - IF SWALLOWED: Get emergency medical help immediately.  
P302+P352 - IF ON SKIN: Wash with plenty of soap and water  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water [or shower].  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+P354+P338 - IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P317 - Get medical help.  
P319 - Get medical help if you feel unwell.  
P321 - Specific treatment (see ... on this label).  
P330 - Rinse mouth.  
P332+P317 - If skin irritation occurs: Get medical help.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P370+P378 - In case of fire: Use ... 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 ....

### 2.3. Other hazards

Adverse physicochemical, human health and environmental effects

: Flammable liquid and vapour, May cause damage to organs through prolonged or repeated exposure, Fatal if swallowed, May cause respiratory irritation, Causes skin irritation, Causes serious eye damage, Toxic to aquatic life

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Substance type : Mono-constituent

Name : Pentylol

Product identifiers: See section 1.1

Name	Product identifier	%	Classification according to the United Nations GHS
n-pentanol	CAS-No.: 71-41-0	25 – 35	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 STOT SE 3, H335
Pentan-2-ol	CAS-No.: 6032-29-7	20 – 25	Flam. Liq. 3, H226
2-methylbutan-1-ol	CAS-No.: 137-32-6	≤ 15	Flam. Liq. 3, H226
Cyclopentanol	CAS-No.: 96-41-3	≤ 15	Flam. Liq. 3, H226

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Name	Product identifier	%	Classification according to the United Nations GHS
Butan-1-ol	CAS-No.: 71-36-3	≤ 10	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H336 STOT SE 3, H335
3-methylbutan-1-ol	CAS-No.: 123-51-3	≤ 10	Flam. Liq. 3, H226
Hexan-2-ol	CAS-No.: 626-93-7	≤ 10	Flam. Liq. 3, H226
3-Methylpentan-2-ol	CAS-No.: 565-60-6	≤ 10	Flam. Liq. 3, H226
Hexan-1-ol	CAS-No.: 111-27-3	≤ 5	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 3, H412

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	: Call a physician immediately.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.
First-aid measures after skin contact	: Rinse skin with water/shower. Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	: Rinse mouth. Call a physician immediately.

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

Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after eye contact	: Serious damage to eyes.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

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

Fire hazard	: Flammable liquid and vapour.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

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## Safety Data Sheet

According to SANS 10234:2019 and SANS 11014:2010

### 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

Emergency procedures : No open flames, no sparks, and no smoking. Do not breathe dust/fume/gas/mist/vapours/spray. Only qualified personnel equipped with suitable protective equipment may intervene.

##### 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.

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

For containment : Collect spillage.  
Methods for cleaning up : Take up liquid spill into absorbent material. 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 : 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. Do not breathe dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes.  
Hygiene measures : Wash contaminated clothing before reuse. 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.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Pentylol	
<b>South Africa - Occupational Exposure Limits (Maximum Limits)</b>	
RHCA - STEL/C [ppm]	50 ppm
RHCA - STEL/C	150 mg/m <sup>3</sup>
<b>South Africa - Occupational Exposure Limits (Airborne Pollutants)</b>	
OEL TWA	360 mg/m <sup>3</sup>
OEL TWA	100 ppm
OEL STEL	450 mg/m <sup>3</sup>
OEL STEL	125 ppm

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According to SANS 10234:2019 and SANS 11014:2010

Butan-1-ol (71-36-3)	
<b>South Africa - Occupational Exposure Limits (Airborne Pollutants)</b>	
Local name	n-Butyl alcohol (Butan-1-ol)
OEL STEL	150 mg/m <sup>3</sup>
OEL STEL	50 ppm
Remark	Sk (Danger of cutaneous absorption)
Regulatory reference	Government Notice No. R 904

3-methylbutan-1-ol (123-51-3)	
<b>South Africa - Occupational Exposure Limits (Restricted Limits)</b>	
Local name	Isoamyl alcohol
OEL eight hour TWA [ppm]	250 ppm
RHCA - STEL/C [ppm]	200 ppm
Regulatory reference	Government Notice No. R. 280, 2021

South Africa - Occupational Exposure Limits (Airborne Pollutants)	
Local name	Isoamyl alcohol (3-Methylbutan-1-ol)
OEL TWA	360 mg/m <sup>3</sup>
OEL TWA	100 ppm
OEL STEL	450 mg/m <sup>3</sup>
OEL STEL	125 ppm
Regulatory reference	Government Notice No. R 904

### 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)

Hand protection : Protective gloves  
Eye protection : Safety glasses  
Skin and body protection : Wear suitable protective clothing  
Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment

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.  
Colour : Colourless.  
Odour : No data available  
Odour threshold : No data available  
pH : No data available

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According to SANS 10234:2019 and SANS 11014:2010

pH solution	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: -106 °C
Freezing point	: No data available
Boiling point	: 124 °C
Flash point	: 43 °C
Auto-ignition temperature	: 345 °C
Decomposition temperature	: No data available
Flammability	: Flammable liquid and vapour.
Vapour pressure	: 3,4 hPa
Vapour pressure at 50°C	: No data available
Relative vapour density at 20°C	: No data available
Relative density	: No data available
Relative density of saturated gas/air mixture	: No data available
Density	: 0,8 g/cm <sup>3</sup>
Relative gas density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Partition coefficient n-octanol/water (Log Kow)	: No data available
Viscosity, kinematic	: 4,9 mm <sup>2</sup> /s
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
Lower explosion limit	: 1,4 vol %
Upper explosion limit	: 16 vol %

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions of use. Flammable liquid and vapour.

### 10.2. Chemical stability

No decomposition if used and stored according to specifications.

### 10.3. Possibility of hazardous reactions

No polymerization.

### 10.4. Conditions to avoid

Sparks. extreme temperatures. Heat. Open flame. Avoid contact with hot surfaces. No flames, no sparks. Eliminate all sources of ignition.

### 10.5. Incompatible materials

Oxidizing agent. reducing agents. Strong bases.

### 10.6. Hazardous decomposition products

Carbon dioxide (CO<sub>2</sub>).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Fatal if swallowed.
Acute toxicity (dermal)	: Not classified.
Acute toxicity (inhalation)	: Not classified.

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According to SANS 10234:2019 and SANS 11014:2010

<b>Pentylol</b>	
LD50 oral rat	8 mg/kg
LD50 dermal rat	13,548 ml/kg
LC50 Inhalation - Rat	370 mg/kg
<b>n-pentanol (71-41-0)</b>	
LD50 oral	3438 mg/kg bodyweight Animal: rabbit, Remarks on results: other:
<b>Pentan-2-ol (6032-29-7)</b>	
LD50 oral rat	2821 mg/kg Source: Corporate Solution From Thomson Micromedex
<b>2-methylbutan-1-ol (137-32-6)</b>	
LD50 oral	3438 mg/kg bodyweight Animal: rabbit
<b>Butan-1-ol (71-36-3)</b>	
LD50 oral rat	≈ 2292 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rabbit	≈ 3430 mg/kg bodyweight Animal: rabbit, Animal sex: male, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
<b>3-methylbutan-1-ol (123-51-3)</b>	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
<b>Hexan-1-ol (111-27-3)</b>	
NOAEL (chronic, oral, animal/female, 2 years)	300 mg/kg bodyweight Animal: mouse, Animal sex: female
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause respiratory irritation.
<b>n-pentanol (71-41-0)</b>	
STOT-single exposure	Not available
<b>Butan-1-ol (71-36-3)</b>	
STOT-single exposure	Not available
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.
<b>Hexan-1-ol (111-27-3)</b>	
LOAEL (dermal, rat/rabbit, 90 days)	100 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)
NOAEL (oral, rat, 90 days)	> 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)
NOAEL (dermal, rat/rabbit, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)
NOAEC (inhalation, rat, vapour, 90 days)	≥ 158 mg/l air Animal: rat
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified
<b>Pentylol</b>	
Viscosity, kinematic	4,9 mm <sup>2</sup> /s

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According to SANS 10234:2019 and SANS 11014:2010

<b>n-pentanol (71-41-0)</b>	
Animal studies and expert judgment for classification	False
<b>Pentan-2-ol (6032-29-7)</b>	
Animal studies and expert judgment for classification	False
<b>2-methylbutan-1-ol (137-32-6)</b>	
Animal studies and expert judgment for classification	False
<b>Butan-1-ol (71-36-3)</b>	
Animal studies and expert judgment for classification	False
<b>3-methylbutan-1-ol (123-51-3)</b>	
Animal studies and expert judgment for classification	False
<b>Hexan-1-ol (111-27-3)</b>	
Animal studies and expert judgment for classification	False
<b>Cyclopentanol (96-41-3)</b>	
Animal studies and expert judgment for classification	False
<b>Hexan-2-ol (626-93-7)</b>	
Animal studies and expert judgment for classification	False
<b>3-Methylpentan-2-ol (565-60-6)</b>	
Animal studies and expert judgment for classification	False

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general	: Toxic to aquatic life.
Hazardous to the aquatic environment, short-term (acute)	: Toxic to aquatic life.
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

<b>Pentylol</b>	
LC50 - Fish [1]	> 100 mg/l
LC50 - Fish [2]	4,555 mg/l
EC50 72h - Algae [1]	100 mg/l
<b>n-pentanol (71-41-0)</b>	
LC50 - Fish [1]	> 120 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	> 173 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 353 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	113 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
<b>Pentan-2-ol (6032-29-7)</b>	
LC50 - Fish [1]	324,1 mg/l Source: Ecological Structure Activity Relationships
Partition coefficient n-octanol/water (Log Pow)	1,25 Source: ICSC



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## Safety Data Sheet

According to SANS 10234:2019 and SANS 11014:2010

<b>2-methylbutan-1-ol (137-32-6)</b>	
LC50 - Fish [1]	> 120 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	> 173 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 353 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	113 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
<b>Butan-1-ol (71-36-3)</b>	
LC50 - Fish [1]	1376 mg/l Test organisms (species): Pimephales promelas
EC50 - Crustacea [1]	1328 mg/l Test organisms (species): Daphnia magna
NOEC (chronic)	4,1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
<b>3-methylbutan-1-ol (123-51-3)</b>	
LC50 - Fish [1]	> 120 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	> 173 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 353 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	113 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
<b>Hexan-1-ol (111-27-3)</b>	
LC50 - Fish [1]	> 1 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	5,91 mg/l Test organisms (species): Daphnia magna
EC50 - Crustacea [2]	0,39 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	79,7 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	20,5 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
NOEC chronic fish	0,26 mg/l Test organisms (species): Pimephales promelas Duration: '33 d'
<b>Cyclopentanol (96-41-3)</b>	
LC50 - Fish [1]	401,957 mg/l Source: Ecological Structure Activity Relationships
Partition coefficient n-octanol/water (Log Pow)	0,71 Source: HSDB
<b>Hexan-2-ol (626-93-7)</b>	
LC50 - Fish [1]	340 mg/l Source: ECOTOX
Partition coefficient n-octanol/water (Log Pow)	1,76 Source: National Library of Medicine
<b>3-Methylpentan-2-ol (565-60-6)</b>	
LC50 - Fish [1]	151,764 mg/l Source: EPISUITE
EC50 - Crustacea [1]	81,58 mg/l Source: EPISUITE
<b>12.2. Persistence and degradability</b>	
<b>Pentylol</b>	
Persistence and degradability	No additional information available

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## Safety Data Sheet

According to SANS 10234:2019 and SANS 11014:2010

### 12.3. Bioaccumulative potential

#### Pentylol

Bioaccumulative potential No additional information available

#### Pentan-2-ol (6032-29-7)

Partition coefficient n-octanol/water (Log Pow) 1,25 Source: ICSC

#### Cyclopentanol (96-41-3)

Partition coefficient n-octanol/water (Log Pow) 0,71 Source: HSDB

#### Hexan-2-ol (626-93-7)

Partition coefficient n-octanol/water (Log Pow) 1,76 Source: National Library of Medicine

### 12.4. Mobility in soil

#### Pentylol

Mobility in soil No additional information available

#### Pentan-2-ol (6032-29-7)

Partition coefficient n-octanol/water (Log Pow) 1,25 Source: ICSC

#### Cyclopentanol (96-41-3)

Partition coefficient n-octanol/water (Log Pow) 0,71 Source: HSDB

#### Hexan-2-ol (626-93-7)

Partition coefficient n-octanol/water (Log Pow) 1,76 Source: National Library of Medicine

#### 3-Methylpentan-2-ol (565-60-6)

Mobility in soil 27,73 Source: EPISUITE

### 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.  
Additional information : 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>		
1993	1993	1993
<b>14.2. Proper Shipping Name</b>		
FLAMMABLE LIQUID, N.O.S.	FLAMMABLE LIQUID, N.O.S.	Flammable liquid, n.o.s.
<b>14.3. Transport hazard class(es)</b>		
3	3	3

# Pentylol

## Safety Data Sheet

According to SANS 10234:2019 and SANS 11014:2010

SANS	IMDG	IATA
		
<b>14.4. Packing group</b>		
III	III	III
<b>14.5. Environmental hazards</b>		
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No
No supplementary information available		

### 14.6. Special precautions for user

#### SANS

Special provisions (SANS)	: 223, 274
Limited quantities (SANS)	: 5 L
Limited quantities (SANS)	: 5 L
Packagings, large packagings and IBCs Packing instructions (SANS)	: P001, IBC03, LP01
Portable tank and bulk containers instructions (SANS)	: T4
Portable tank and bulk container special provisions (SANS)	: TP1, TP29

#### IMDG

Special provisions (IMDG)	: 223, 274, 955
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: LP01, P001
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1, TP29
EmS-No. (Fire)	: F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS
EmS-No. (Spillage)	: S-E - SPILLAGE SCHEDULE Echo - FLAMMABLE LIQUIDS, FLOATING ON WATER
Stowage category (IMDG)	: A

#### IATA

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y344
PCA limited quantity max net quantity (IATA)	: 10L
PCA packing instructions (IATA)	: 355
PCA max net quantity (IATA)	: 60L
CAO packing instructions (IATA)	: 366
CAO max net quantity (IATA)	: 220L
Special provisions (IATA)	: A3
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

No additional information available

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## Safety Data Sheet

According to SANS 10234:2019 and SANS 11014:2010

### SECTION 16: Other information

Issue date : 2019/03/03  
Supersedes : 2024/01/31

#### Full text of H-statements

H226	Flammable liquid and vapour
H300	Fatal if swallowed
H302	Harmful if swallowed
H315	Causes skin irritation
H318	Causes serious eye damage
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H401	Toxic to aquatic life
H412	Harmful to aquatic life with long lasting effects

Safety Data Sheet (SDS), South Africa

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.