

## Section 1. Identification

### 1.1. Product Identifier

Product form : Mixture  
Trade name : INTEROX® ST-50X  
Chemical name : Hydrogen Peroxide 50%  
Synonyms : Hydrogen dioxide, dihydrogen dioxide, hydrogen oxide, peroxide  
CAS No : 7722-84-1

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

Recommended on use : Bleaching agents, Chemical industry, Electronic industry, Metal treatment, Odour agents, Oxidizing Agents, Textile industry, Water treatment, Manufacture of pulp, paper and paper products, Laboratory and Research.  
Uses advised against : None identified

### 1.3. Supplier's details

Company : Rolfes Chemicals Pty Ltd  
Address : Cnr Brammer and Strachan Street  
: Germiston  
: South Africa  
Telephone : 011 873 0157  
Email : [Info@rolfesza.com](mailto:Info@rolfesza.com)  
Emergency telephone number : +27 (0) 17 610 4444 / 0800 112 890

## Section 2. Hazards identification

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

#### 2.1.1. Classification according to the United Nations GHS: SANS 10234

Oxidizing liquids, Category 2	H272: May intensify fire; oxidizer.
Acute toxicity, Category 4	H302: Harmful if swallowed.
Skin corrosion/irritation, Sub-category 1B	H314: Causes severe skin burns and eye damage.

Serious eye damage/eye irritation, Category 1	H318: Causes serious eye damage.
Specific target organ toxicity - single exposure, Category 3	H335: May cause respiratory irritation. (Respiratory system)
Short-term (acute) aquatic hazard, Category 2	H401: Toxic to aquatic life.

### 2.1.2. Adverse physiochemical, human health and environmental effects.

In high concentrations in laboratory or industrial settings, hydrogen peroxide can pose serious health and safety hazards. Hydrogen peroxide is a strong oxidizer (moderate oxidizer in lower concentrations), and can be **corrosive to the eyes, skin, and respiratory system.**

## 2.2. Label Elements

### Labelling according to SANS 10234: 2007 (GHS) label elements

Hazard pictograms (GHS-UN) :



**Signal word (GHS-UN)** : Danger!

**Hazard statements (GHS-UN)** :

- H272 May intensify fire: Oxidizer
- H302 Harmful if swallowed
- H314 Causes skin burns and eye damage
- H335 May cause respiratory irritation
- H401 Toxic to aquatic life

### Precautionary Statements (GHS-UN):

**Prevention:**

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P220 Keep away from clothing and other combustible materials.
- P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
- P264 Wash skin thoroughly after handling.

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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.

### Response:

P301 + P312 + IF SWALLOWED: Call a POISON CENTER/doctor if you feel

P330 unwell. Rinse mouth.

P301 + P330 + IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P331

P303 + P361 + IF ON SKIN (or hair): Take off immediately all contaminated

P353 clothing. Rinse skin with water.

P304 + P340 + IF INHALED: Remove person to fresh air and keep comfortable

P310 for breathing. Immediately call a POISON CENTER/doctor.

-P305 + P351 IF IN EYES: Rinse cautiously with water for several minutes.

+ P338 + P310 Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

P363 Wash contaminated clothing before reuse.

P370 + P378 In case of fire: Use water spray to extinguish.

### Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

### 2.3. Other hazards which do not result in classification.

None known

### 2.4. Additional Information

No additional information available.

## Section 3: Composition /Information on Ingredients

### 3.1. Substance

Not applicable, this product is a mixture.

### 3.2. Mixture

Information on Components and Impurities.

Chemical name	CAS-No.	GHS Classification	Concentration [%]
hydrogen peroxide	CAS-No. : 7722-84-1	Oxidizing liquids, Category 1 ; H271 Acute toxicity, Category 4 ; H302 Skin corrosion, Sub-category 1A ; H314 Serious eye damage, Category 1 ; H318 Specific target organ toxicity - single exposure, Category 3 ; H335 Short-term (acute) aquatic hazard, Category 2 ; H401 Long-term (chronic) aquatic hazard, Category 3 ; H412 <b>Specific concentration limits:</b> C: >= 70 %, Oxidizing liquids, Category 1; H271 C: 50 - < 70 %, Oxidizing liquids, Category 2; H272 C: >= 70 %, Skin corrosion, Category 1A; H314 C: 50 - < 70 %, Skin corrosion, Category 1B; H314 C: 35 - < 50 %, Skin irritation, Category 2; H315 C: 8 - < 50 %, Serious eye damage, Category 1; H318 C: 5 - < 8 %, Eye irritation, Category 2; H319	>= 49.5 - <= 50.5

		C: $\geq 35\%$ , Specific target organ toxicity - single exposure, Category 3; H335	
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For full text of the H-Statements mentioned in this section, see Section 16.

## Section 4. First aid measures

### 4.1. Description of necessary first aid measures.

First-aid measures general:	Read the safety datasheet before using this product. Show this SDS to the doctor in attendance.
First-aid measures after inhalation:	Remove the victim to fresh air. Oxygen or artificial respiration if needed. The victim must lie down in a recovery position, cover and keep warm – call a physician immediately.
First-aid measures after skin contact:	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water. Keep warm and in a quiet place. Call a physician or poison control centre immediately. Wash contaminated clothing before re-use.
First-aid measures after eye contact:	Call a physician or poison control centre immediately. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In the case of difficulty of opening the lids, administer an analgesic eye wash (oxybuprocaine). Take victim immediately to hospital.
First-aid measures after ingestion:	Call a physician or poison control centre immediately. Take victim immediately to hospital. If swallowed, rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. If victim is conscious: - Artificial respiration and/or oxygen may be necessary.

If swallowed, rinse mouth with water (only if the person is conscious).

Do NOT induce vomiting.

If victim is unconscious:

Artificial respiration and/or oxygen may be necessary.

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

##### In case of inhalation

###### Symptoms

- Breathing difficulties
- Cough
- pulmonary oedema
- Nausea
- Vomiting

###### Effects

- Corrosive to respiratory system.

###### *Repeated or prolonged exposure*

- Nose bleeding
- Risk of chronic bronchitis

##### In case of skin contact

###### Symptoms

- Redness
- Swelling of tissue

###### Effects

- Corrosive
- Causes severe burns.

##### In case of eye contact

### Symptoms

- Redness
- Lachrymation
- Swelling of tissue

### Effects

- Corrosive
- Causes severe burns.
- Small amounts splashed into eyes can cause irreversible tissue damage and blindness.

### In case of ingestion

#### Symptoms

- Nausea
- Abdominal pain
- Bloody vomiting
- Diarrhoea
- Suffocation
- Cough
- Severe shortness of breath

#### Effects

- If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.
- Risk of respiratory disorder

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

- Take victim immediately to hospital. **Notes to physician**
- Immediate medical attention is required.
- Consult with an ophthalmologist immediately in all cases.
- Burns must be treated by a physician.
- If swallowed
- Avoid gastric lavage (risk of perforation).
- Keep under medical supervision for at least 48 hours.

## Section 5. Fire-fighting measures

### 5.1. Extinguishing Media

Suitable : Water, water spray

Unsuitable : None known

### 5.2. Specific hazards arising from the chemical substance or a mixture.

- Oxidizing
- Contact with combustible material may cause fire.
- Contact with flammables may cause fire or explosions.
- Risk of explosion if heated under confinement.
- Decomposition will cause oxygen release which may intensify fire

### 5.3. Hazardous Products of Combustion

None known.

### 5.4. Special personal protective equipment (PPE) and precaution for fire-fighters.

- In the event of fire, wear self-contained breathing apparatus.
- Use personal protective equipment.
- Wear chemical resistant oversuit

### 5.5. Special Fire Fighting Procedures

- Keep product and empty container away from heat and sources of ignition.
- Keep containers and surroundings cool with water spray.
- Approach from upwind.
- Prevent fire extinguishing water from contaminating surface water or the ground water system.

### 5.6. Additional information.

No additional data available.

## Section 6: Accidental release measures

**Personal precautions, protective equipment, and emergency procedures** : **Advice for non-emergency personnel**

- Evacuate personnel to safe areas.
- Keep people away from and upwind of spill/leak.

**Advice for emergency responders**

- Use personal protective equipment.
- Drying of this product on clothing or combustible materials may cause fire.
- Keep wetted with water.
- Prevent further leakage or spillage.
- Keep away from incompatible products

**Environmental precautions** : Should not be released into the environment.  
If the product contaminates rivers and lakes or drains inform respective authorities.

**Methods for containment and cleaning up** : Dilute with plenty of water.  
Dam up.  
Do not mix waste streams during collection.  
Soak up with inert absorbent material.  
Keep in properly labelled containers.  
Keep in suitable, closed containers for disposal.  
Treat recovered material as described in the section "Disposal considerations".

**Reference to other sections** : Refer to protective measures listed in sections 7 and 8.

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

**Safe handling advise** : Use only in well-ventilated areas.  
Before all operations, passivate the piping circuits and vessels according to the procedure recommended by the producer.  
Use only clean and dry utensils.

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Never return unused material to storage receptacle.

Keep away from heat.

Avoid inhalation, ingestion and contact with skin and eyes. - Keep away from incompatible products

Hygiene measures : Ensure that eyewash stations and safety showers are close to the workstation location.  
Take off contaminated clothing and shoes immediately.  
Wash contaminated clothing before re-use.  
When using do not eat, drink or smoke.  
Wash hands before breaks and at the end of workday.  
Handle in accordance with good industrial hygiene and safety practice.

Advise on protection against fire: No information available  
and explosion

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

Technical measures/storage conditions : Keep only in the original container.  
Store in a well-ventilated place. Keep cool.  
Store in a receptacle equipped with a vent.  
Keep in properly labelled containers.  
Keep container closed.  
Keep in a banded area.  
Keep away from heat/sparks/open flames/hot surfaces. No smoking. - Regularly check the condition and temperature of the containers.

Advise on common storage :  
Incompatibilities : Store away from: Incompatible products

Packaging material :  
**Suitable material**  
aluminium 99,5 %  
stainless steel 304L / 316L  
Approved grades of HDPE.

**7.3. Further details: Specific end use(s)**

Contact your supplier for additional information.

**Section 8. Exposure controls/personal protection**

**8.1. Control parameters: National Occupational Exposure Limits (OELs)**

**Components with other occupational exposure limits**

Components	Value type	Value	Basis
Hydrogen peroxide	TWA	1 ppm	USA. ACGIH Threshold Limit Values (TLV)

**8.2. Appropriate engineering controls**

Engineering measures : Provide adequate ventilation.

Apply technical measures to comply with the occupational exposure limits.

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

**Respiratory protection** : Use respirator when performing operations involving potential exposure to vapour of the product.  
 When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.  
 Respirator with a vapour filter (EN 141)  
 Recommended Filter type: ABEK-P2  
 Self-contained breathing apparatus in case of: 1) large uncontrolled emissions, 2) insufficient oxygen, 3) the mask and cartridge do not give adequate protection.

**Hand protection** : Impervious gloves  
 Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

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### ***Suitable material***

- Nitrile rubber
- Break through time: > 480 min
- Glove thickness: 1.3 mm
  
- Nitrile/Neopren gloves
- Break through time: 190 min
- Glove thickness: 0.2 mm

**Eye protection** : Chemical resistant goggles must be worn.  
If splashes are likely to occur, wear:  
Tightly fitting safety goggles  
Face-shield

**Skin and body protection** : Impervious clothing  
If splashes are likely to occur, wear:  
Chemical resistant apron  
Boots

Suitable material  
PVC  
Natural Rubber

**Hygiene measures** : Ensure that eyewash stations and safety showers are close to the workstation location.  
Take off contaminated clothing and shoes immediately.  
Wash contaminated clothing before re-use.  
When using do not eat, drink or smoke.  
Wash hands before breaks and at the end of workday.  
Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls** : Dispose of rinse water in accordance with local and national regulations.

### **8.4. Personal protective equipment symbol (s)**



## Section 9. Physical and chemical properties

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

**Appearance**

Physical state: liquid

Colour: colourless

**Odour**

odourless

**Odour Threshold**

No data available

**Molecular weight**

34 g/mol

**pH**

2.0 ( 21 °C)

H<sub>2</sub>O<sub>2</sub> 50 %

pKa: 11.6 ( 25 °C)

**Melting point/freezing point**

Freezing point: -40.3 °C

H<sub>2</sub>O<sub>2</sub> 70 %

**Initial boiling point and boiling range**

Boiling point/boiling range: 125 °C

H<sub>2</sub>O<sub>2</sub> 70 %

**Flash point**

Not applicable

**Evaporation rate (Butylacetate = 1)**

No data available

**Flammability (solid, gas)**

Not applicable

**Flammability (liquids)**

The product is not flammable.

**Flammability/Explosive limit**

Explosiveness:

Not explosive

With certain materials (see section 10).

**Auto-ignition temperature**

The product is not flammable.

**Vapour pressure**

2 hPa ( 30 °C)

H<sub>2</sub>O<sub>2</sub> 70 %

**Vapour density**

1.02

**Density**

Bulk density: Not applicable

**Relative density**

1.29

H<sub>2</sub>O<sub>2</sub> 70 %

**Relative density**

1.44 ( 25 °C)

Pure substance

**Solubility**

Water solubility:

soluble

Solubility in other solvents:

organic polar solvents : soluble

**Partition coefficient: n-octanol/water** log Pow: -1.57

Method: Calculation method



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<b>Conditions to avoid</b>	: Contamination To avoid thermal decomposition, do not overheat.
<b>Possibility of Hazardous Reactions</b>	: Contact with flammables may cause fire or explosions. - Contact with combustible material may cause fire. Contact with incompatible material may cause exothermic decomposition with gas release.  Risk of explosion if heated under confinement.  Fire or intense heat may cause violent rupture of packages
<b>Incompatible materials</b>	: <ul style="list-style-type: none"><li>- Acids</li><li>- Bases</li><li>- Metals</li><li>- Heavy metal salts</li><li>- Powdered metal salts</li><li>- Reducing agents</li><li>- Organic materials</li><li>- Flammable materials</li></ul>
<b>Hazardous decomposition products</b>	: Oxygen

### 10.2. Chemical Stability

Stable under recommended storage conditions.

## Section 11. Toxicological information

### 11.1. Information on toxicological effects.

#### Acute Toxicity:

##### Acute oral toxicity

Hydrogen peroxide

Acute toxicity estimate: 431 mg/kg - Rat , male and female

This product is classified as acute toxicity, category 4

Unpublished reports.

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**Acute inhalation toxicity**  
hydrogen peroxide

LC50 - 4 h ( vapour ) : > 0.17 mg/l - Rat  
Not classified as hazardous for acute inhalation toxicity according to GHS. Unpublished reports

**Acute dermal toxicity**  
hydrogen peroxide

Acute toxicity estimate : 6,440 mg/kg - Rabbit  
Test substance: Hydrogen peroxide  
Not classified as hazardous for acute dermal toxicity according to GHS.  
Unpublished reports

**Acute toxicity (other routes of administration)**

No data available

**Skin corrosion/irritation**

Causes burns.

**Serious eye damage/eye irritation**

Causes serious eye damage.

**Respiratory or skin sensitisation**

hydrogen peroxide

Does not cause skin sensitisation.  
not sensitising

**Mutagenicity**

**Genotoxicity in vitro**

hydrogen peroxide

Ames test  
with and without metabolic activation

positive  
Published data

Chromosome aberration test in vitro  
with and without metabolic  
activation

**Genotoxicity in vivo**

positive  
 Unpublished reports

hydrogen peroxide

In vivo micronucleus test - Mouse  
 Oral  
 Method: OECD Test Guideline 474

negative  
 Unpublished reports

**Carcinogenicity**

hydrogen peroxide

No data available

**Information on likely routes of exposure**

**Toxicity for reproduction and development.**

Toxicity to reproduction/Fertility

Hydrogen peroxide: No toxicity to reproduction

Development toxicity/Teratogenicity

Hydrogen peroxide No toxicity to reproduction'

STOT Ton

STOT-single exposure

Hydrogen peroxide Exposure routes: Inhalation Target  
 Organs: Respiratory tract may cause respiratory irritation

STOT – repeated exposure

Hydrogen peroxide The substance or mixture is not classified as specified target organ toxicant, repeated exposure according to GHS criteria.

Inhalation (vapour) 90-day –Rat

NOAEC: 7ppm

Target Organs: Respiratory tract

Method: OECD Test Guideline 413

Unpublished reports

90-day –Rat

NOAEL: 100ppm

Target Organs: Gastrointestinal tract Method:

OECD Test Guidline 408 drinking water

Unpublished reports

Experience with human exposure: No data available

Aspiration toxicity: No data available

### 11.2. Other information

No additional data available

## Section 12. Ecological information

### 12.1. Toxicity

#### 12.1 Toxicity

##### Aquatic Compartment

##### Acute toxicity to fish

hydrogen peroxide

LC50 - 96 h : 16.4 mg/l - Pimephales promelas (fathead minnow) semi-static test

Analytical monitoring: yes

Unpublished internal reports Harmful to fish.

##### Acute toxicity to daphnia and other aquatic invertebrates

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hydrogen peroxide

EC50 - 48 h : 2.4 mg/l - Daphnia pulex (Water flea)

semi-static test

Analytical monitoring: yes

Unpublished internal reports

Toxic to aquatic invertebrates.

**Toxicity to aquatic plants** hydrogen peroxide

ErC50 - 72 h : 2.62 mg/l - Skeletonema costatum (marine diatom) static test

Analytical monitoring: yes

Unpublished internal reports

Toxic to algae.

**Toxicity to microorganisms** hydrogen peroxide

EC50 - 0.5 h : 466 mg/l - activated sludge static test

Analytical monitoring: yes

Method: OECD Test Guideline 209

Unpublished internal reports

**Chronic toxicity to fish**

No data available

**Chronic toxicity to daphnia and other aquatic invertebrates**

Hydrogen peroxide

NOEC: 0.63 mg/l - 21 Days - Daphnia magna (Water flea) flow-through test

Analytical monitoring: yes

Published data

Harmful to aquatic invertebrates with long lasting effects.

### 12.2 Persistence and degradability

**Physical- and photo-chemical elimination**

No data available

**Biodegradation**

**Biodegradability**

Hydrogen peroxide

Ready biodegradability study:  
 Method: Degradation in sewage treatment plants  
 The substance fulfills the criteria for ultimate aerobic biodegradability and ready biodegradability  
 Inoculum: activated sludge  
 Unpublished internal reports

**Abiotic degradation**

No data available

**Degradability assessment**

Hydrogen peroxide

The product is considered to be rapidly degradable in the environment.

**12.3. Bio-accumulative potential**

**Partition coefficient: n-octanol/water\**

hydrogen peroxide

Not potentially bioaccumulable

**Bioconcentration factor (BCF)**

hydrogen peroxide

Not potentially bioaccumulable

**12.4 Mobility in soil**

**Adsorption potential (Koc)**

hydrogen peroxide

Adsorption/Soil  
 Koc: 1.58  
 Log Koc: 0.2  
 Method: Structure-activity relationship (SAR)

Unpublished reports

**Known distribution to environmental compartments**

hydrogen peroxide

Ultimate destination of the product : Water

**12.5 Results of PBT and vPvB assessment** This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).

This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

**12.6 Other adverse effects**

**Ecotoxicity assessment**

**Short-term (acute) aquatic hazard** Toxic to aquatic life.

**Long-term (chronic) aquatic hazard** Not classified due to data which are conclusive although insufficient for classification.

**Section 13: Disposal considerations**

**13.1. Disposal methods**

<b>Disposal instructions</b>	<p>Limited quantity</p> <p>Dilute with plenty of water.</p> <p>Flush into sewer with plenty of water.</p> <p>Maximum quantity</p> <p>Contact manufacturer.</p> <p>Contact waste disposal services.</p> <p>In accordance with local and national regulations.</p>
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<b>Local disposal regulations</b>	Dispose in accordance with all applicable regulations.
<b>Advise on cleaning and disposal of packaging</b>	Empty containers. Clean container with water. Dispose of rinse water in accordance with local and national regulations. Where possible recycling is preferred to disposal or incineration. - In accordance with local and national regulations.
<b>Waste from residues / unused products</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

### 13.2. Other regulations

No data available.

## Section 14. Transport information

### 14.1. UN number, transport hazard class (es), packing group, and shipping name.

#### US Department of Transportation (DOT)

UN Number : 2014  
 Proper shipping name : Hydrogen peroxide, aqueous solutions  
 Class : 5.1  
 Subsidiary hazard class : (8)  
 Packaging group : II

#### IMDG

<b>14.1 UN number</b>	UN 2014
<b>14.2 Proper shipping name</b>	HYDROGEN PEROXIDE, AQUEOUS SOLUTION
<b>14.3 Transport hazard class</b>	5.1
Subsidiary hazard class:	8
<b>14.4 Packing group</b>	5.1 (8)
Label(s):	
Packing group	II
<b>14.5 Environmental hazards</b>	NO
<b>Marine pollutant</b>	
<b>14.6 Special precautions for user</b>	
EmS	F-H , S-Q

For personal protection see section 8.

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

No data available

**IATA**

<b>14.1 UN number</b>	UN 2014
<b>14.2 Proper shipping name</b>	Not permitted for transport
<b>14.3 Transport hazard class</b>	Not permitted for transport
<b>14.4 Packing group</b>	
<b>14.5 Environmental hazards</b>	NO
<b>14.6 Special precautions for user</b>	



Philippines Inventory of Chemicals and Chemical Substances (PICCS)	- One or more components not listed on inventory
Mexico INSQ (INSQ)	- One or more components not listed on inventory
New Zealand. Inventory of Chemical Substances	- Listed on Inventory
European Inventory of Existing Commercial Chemical Substances (EINECS)	- When purchased from a Solvay legal entity based in the EEA ("European Economic Area"), this product is compliant with the registration provisions of the REACH Regulation (EC) No. 1907/2006 as all its components are either excluded, exempt, and/or registered. When purchased from a legal entity outside of the EEA, please contact your local representative for additional information.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

### 15.3. Other 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

### Full text of H- and EUH-statements:

- H271 May cause fire or explosion; strong oxidiser.
- H272 May intensify fire; oxidizer.

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- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H318 Causes serious eye damage.
- H335 May cause respiratory irritation.
- H401 Toxic to aquatic life.
- H412 Harmful to aquatic life with long lasting effects.

Last Date of Review : 11.11.2022

### **Key or legend to abbreviations and acronyms used in the safety data sheet**

- TWA 8-hour, time-weighted average

### **Further information**

- Distribute this new edition to clients
  
- Update
- See section 2
  
- See section 3
- See section 8

### **Disclaimer**

All reasonable efforts were exercised to compile this SDS in accordance with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS): SANS 10234. All information and instructions provided in this Safety Data Sheet (SDS) in respect of the substance, is given solely in terms of the provision of the Occupational Health and Safety Act No 85 of 1993 and Regulations (the Act), is based on scientific and technical knowledge as at the date indicated on this SDS, and is presented in good faith to be correct. The information and instructions provided in the SDS apply only to the substance in its present form and not to any formulation or mix, in which event it is the sole responsibility of the user of the substance as formulated and/or mixed to investigate and establish any danger which may arise out of its use, wherever such user may be situated. It is the sole responsibility of the person in receipt of this SDS, wherever such recipient may be situated, to ensure that the information provided is communicated to and understood by any person who may come in contact with the substance in any place and in any manner whatsoever. If such recipient produces formulations or mixes using the substance, then it is such recipient's sole responsibility to



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comply with the provisions of the Act in respect of the provisions of the necessary SDS, or to comply with any other applicable legislation.