

**SECTION 1: Identification of the substance/mixture and of the supplier/undertaking****1.1. GHS product identifier**

|                              |                                   |
|------------------------------|-----------------------------------|
| Product form                 | : Substance                       |
| Trade name                   | : HYDROGEN PEROXIDE 50 %          |
| Chemical name                | : hydrogen peroxide solution... % |
| Substance type               | : Mono-constituent                |
| EC-No.                       | : 231-765-0                       |
| EC Index-No.                 | : 008-003-00-9                    |
| CAS-No.                      | : 7722-84-1                       |
| UN-No. (ADR)                 | : 2014                            |
| REACH registration No. (SDS) | : 01-2119485845-22                |
| Product code                 | : HYDROGEN PEROXIDE 50 %          |
| Product group                | : Trade product                   |

**1.2. Other means of identification**

|                               |                                                      |
|-------------------------------|------------------------------------------------------|
| Other means of identification | : Hydrogen peroxide (H <sub>2</sub> O <sub>2</sub> ) |
|-------------------------------|------------------------------------------------------|

**1.3. Recommended use of the chemical and restrictions on use**

No additional information available

**1.4. Supplier's details**

ImproChem(Pty) Ltd T/A AECI Water  
1 Wharhirst Road  
Umbogintwini – Kwa Zulu Natal  
South Africa  
T +27(31) 949 8200

**1.5. Emergency phone number**

|                  |                              |
|------------------|------------------------------|
| Emergency number | : 0800 SPILLS or 0800 774557 |
|------------------|------------------------------|

**SECTION 2: Hazard identification****2.1. GHS classification of the substance/mixture and any national or regional information****Classification according to the United Nations GHS**

|                                                                 |                                                                                                                                                                                         |      |
|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Flammable liquids                                               | Not classified                                                                                                                                                                          |      |
| Oxidising Liquids, Category 1                                   |                                                                                                                                                                                         | H271 |
| Acute toxicity (oral), Category 4                               |                                                                                                                                                                                         | H302 |
| Acute toxicity (inhalation:dust,mist) Category 4                |                                                                                                                                                                                         | H332 |
| Skin corrosion/irritation, Category 1A                          |                                                                                                                                                                                         | H314 |
| Specific target organ toxicity – Single exposure, Category 3,   |                                                                                                                                                                                         | H335 |
| Respiratory tract irritation                                    |                                                                                                                                                                                         |      |
| Hazardous to the aquatic environment – Acute Hazard, Category 3 |                                                                                                                                                                                         | H402 |
| Full text of H-statements: see section 16                       |                                                                                                                                                                                         |      |
| Adverse physicochemical, human health and environmental effects | : May cause fire or explosion; strong oxidiser,Harmful if inhaled,Harmful if swallowed,May cause respiratory irritation,Causes severe skin burns and eye damage,Harmful to aquatic life |      |

# HYDROGEN PEROXIDE 50 %

## Safety Data Sheet

According to Regulations for Hazardous Chemical Agents, 2021 and United Nations GHS revision 9

### 2.2. GHS label elements, including precautionary statements

#### Labelling according to the United Nations GHS

Hazard pictograms (GHS ZA)

:



Signal word (GHS-ZA)

: Danger

Hazard statements (GHS ZA)

: H271 - May cause fire or explosion; strong oxidiser  
H302+H332 - Harmful if swallowed or if inhaled  
H314 - Causes severe skin burns and eye damage  
H335 - May cause respiratory irritation  
H402 - Harmful to aquatic life

Precautionary statements (GHS ZA)

: P101 - If medical advice is needed, have product container or label at hand.  
P102 - Keep out of reach of children.  
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.  
P260 - Do not breathe dusts or mists.  
P271 - Use only outdoors or in a well-ventilated area.

### 2.3. Other hazards which do not result in classification or are not covered by the GHS

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Substance type

: Mono-constituent

Chemical name

: hydrogen peroxide solution... %

Product identifiers: See section 1.1

| Name                                        | Product identifier | %   | Classification according to the United Nations GHS                                                                                                                                            |
|---------------------------------------------|--------------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| HYDROGEN PEROXIDE 50%<br>(Main constituent) | CAS-No.: 7722-84-1 | 100 | Flam. Liq. Not classified<br>Ox. Liq. 1, H271<br>Acute Tox. 4 (Oral), H302<br>Acute Tox. 4<br>(Inhalation:dust,mist), H332<br>Skin Corr. 1A, H314<br>STOT SE 3, H335<br>Aquatic Acute 3, H402 |

Full text of H-statements: see section 16

### 3.2. Mixture

Not applicable

## SECTION 4: First aid measures

### 4.1. Description of necessary 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. Treat symptomatically. Get immediate medical attention. Call a poison center or a doctor if you feel unwell.

First-aid measures after skin contact

: Rinse skin with water/shower. Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. Take off immediately all contaminated clothing. Call a physician immediately.

# HYDROGEN PEROXIDE 50 %

## Safety Data Sheet

According to Regulations for Hazardous Chemical Agents, 2021 and United Nations GHS revision 9

|                                      |                                                                                                                                                      |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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. Do not induce vomiting. Call a physician immediately.                                                                                 |

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

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| Symptoms/effects after inhalation   | : May cause respiratory irritation. |
| Symptoms/effects after skin contact | : Burns.                            |
| Symptoms/effects after eye contact  | : Serious damage to eyes.           |
| Symptoms/effects after ingestion    | : Burns.                            |

### 4.3. Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

|                                |                                                  |
|--------------------------------|--------------------------------------------------|
| Suitable extinguishing media   | : Water spray. Dry powder. Foam. Carbon dioxide. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.               |

### 5.2. Specific hazards arising from the chemical

|                                                  |                                                                |
|--------------------------------------------------|----------------------------------------------------------------|
| Fire hazard                                      | : May cause fire or explosion; strong oxidiser.                |
| Explosion hazard                                 | : Heat may cause pressure rise in tanks/drums: explosion risk. |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released.                                 |

### 5.3. Special protective actions for fire-fighters

|                                |                                                                                                                                          |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Firefighting instructions      | : In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.                           |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |
| Other information              | : High temperature decomposition products are harmful by inhalation.                                                                     |

## SECTION 6: Accidental release measures

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

|                  |                                                                                                                                                                                                                                                                                             |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General measures | : Avoid contact with skin, eyes and clothing. Ventilate area. Remove ignition sources. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Do not handle until all safety precautions have been read and understood. Evacuate area. |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### 6.1.1. For non-emergency personnel

|                      |                                                                                                                                                          |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protective equipment | : Wear full protective clothing and breathing apparatus when dealing with all spillage (see section 8).                                                  |
| Emergency procedures | : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. |

#### 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 materials for containment and cleaning up

|                         |                                                                                                               |
|-------------------------|---------------------------------------------------------------------------------------------------------------|
| For containment         | : Dam up the liquid spill. 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.                                               |

# HYDROGEN PEROXIDE 50 %

## Safety Data Sheet

According to Regulations for Hazardous Chemical Agents, 2021 and United Nations GHS revision 9

### 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. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. |
| Hygiene measures                  | : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.                                                                                                                            |
| Additional hazards when processed | : Handle empty containers with care because residual vapours are flammable. Keep away from combustible materials. Keep away from ignition sources.                                                                                                                      |

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

|                           |                                                                                                |
|---------------------------|------------------------------------------------------------------------------------------------|
| Technical measures        | : Ensure adequate ventilation, especially in confined areas. Facilities: shower, eye shower.   |
| Storage conditions        | : Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool. |
| Incompatible products     | : Heavy metals. Strong reducing agents. Iron. alkalis. organic materials.                      |
| Incompatible materials    | : Aluminium, Zinc, Galvanised metals. combustible materials.                                   |
| Heat and ignition sources | : Keep away from heat and direct sunlight. Keep away from ignition sources.                    |

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 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

|                          |                                                                                                                                                                                                                       |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hand protection          | : Shoulder-length gloves - EN 388, EN 374, EN 374-3, PVC C400                                                                                                                                                         |
| Eye protection           | : Spoggles (not safety glasses) - EN166, UVEX, Pyramex Capstone . Face shield. Safety glasses                                                                                                                         |
| Skin and body protection | : Full conti-suit/overall (Jacket and pants) - Acid resistant and flame retardant with reflective stripes - SANS 434, EN 471, EN 469, EN 533. Chemical resistant apron. Wear fire/flame resistant/retardant clothing. |
| Respiratory protection   | : [In case of inadequate ventilation] wear respiratory protection.                                                                                                                                                    |

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. Basic physical and chemical properties

|                 |                                         |
|-----------------|-----------------------------------------|
| Physical state  | : Liquid                                |
| Appearance      | : No data available                     |
| Molecular mass  | : 34.015 g/mol                          |
| Colour          | : Clear colourless.<br>Clear colourless |
| Odour           | : Odourless.<br>Odourless               |
| Odour threshold | : No data available                     |

# HYDROGEN PEROXIDE 50 %

## Safety Data Sheet

According to Regulations for Hazardous Chemical Agents, 2021 and United Nations GHS revision 9

|                                                 |                                               |
|-------------------------------------------------|-----------------------------------------------|
| pH                                              | : 3.3                                         |
| pH solution                                     | : No data available                           |
| Relative evaporation rate (butylacetate=1)      | : > 1                                         |
| Relative evaporation rate (ether=1)             | : No data available                           |
| Melting point                                   | : Not applicable                              |
| Freezing point                                  | : No data available                           |
| Boiling point                                   | : 108 °C                                      |
| Flash point                                     | : > 93 °C                                     |
| Auto-ignition temperature                       | : No data available                           |
| Decomposition temperature                       | : > 125 °C                                    |
| Flammability                                    | : Non flammable.                              |
| Vapour pressure                                 | : 23 mm Hg ( @ 30 C)                          |
| Vapour pressure at 50°C                         | : No data available                           |
| Relative vapour density at 20°C                 | : 1.1                                         |
| Relative density                                | : No data available                           |
| Relative density of saturated gas/air mixture   | : No data available                           |
| Density                                         | : 1.11 @ 20 C                                 |
| Relative gas density                            | : No data available                           |
| Solubility                                      | : Miscible with water.<br>Water: 1000000 mg/l |
| Partition coefficient n-octanol/water (Log Pow) | : 0.032                                       |
| Partition coefficient n-octanol/water (Log Kow) | : No data available                           |
| Viscosity, kinematic                            | : 1.1 mm²/s @ 20 C                            |
| Viscosity, dynamic                              | : No data available                           |
| Explosive properties                            | : No data available                           |
| Oxidising properties                            | : Oxidiser.                                   |
| Explosive limits                                | : No data available                           |
| Lower explosion limit                           | : No data available                           |
| Upper explosion limit                           | : No data available                           |
| Physical state                                  | : Liquid                                      |
| Appearance                                      | : No data available                           |

### 9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

## SECTION 10: Stability and Reactivity

### 10.1. Reactivity

May cause fire or explosion; strong oxidiser.

### 10.2. Chemical Stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Avoid contact with organic compounds. Contact with metals, metallic ions, alkalis, reducing agents and organic materials may produce self accelerated thermal decomposition.

### 10.4. Conditions to avoid

Exposure to UV rays, contamination, pH variations. Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

### 10.5. Incompatible materials

Combustible materials.

### 10.6. Hazardous decomposition products

Oxygen which supports combustion. Liable to overpressure in container.

# HYDROGEN PEROXIDE 50 %

## Safety Data Sheet

According to Regulations for Hazardous Chemical Agents, 2021 and United Nations GHS revision 9

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

|                             |                         |
|-----------------------------|-------------------------|
| Acute toxicity (oral)       | : Harmful if swallowed. |
| Acute toxicity (dermal)     | : Not classified        |
| Acute toxicity (inhalation) | : Harmful if inhaled.   |

| HYDROGEN PEROXIDE 50 % (7722-84-1) |                            |
|------------------------------------|----------------------------|
| LD50 oral rat                      | 1193 mg/kg (35 % Solution) |
| LD50 dermal rat                    | > 2000 mg/kg               |
| LC50 Inhalation - Rat (Vapours)    | 2 mg/l/4h                  |

|                                   |                                                  |
|-----------------------------------|--------------------------------------------------|
| Skin corrosion/irritation         | : Causes severe skin burns.<br>pH: 3.3           |
| Serious eye damage/irritation     | : Assumed to cause serious eye damage<br>pH: 3.3 |
| Respiratory or skin sensitisation | : Not classified                                 |
| Germ cell mutagenicity            | : Not classified                                 |
| Carcinogenicity                   | : Not classified                                 |
| Reproductive toxicity             | : Not classified                                 |
| STOT-single exposure              | : May cause respiratory irritation.              |
| STOT-repeated exposure            | : Not classified                                 |
| Aspiration hazard                 | : Not classified                                 |

| HYDROGEN PEROXIDE 50 % (7722-84-1) |                  |
|------------------------------------|------------------|
| Viscosity, kinematic               | 1.1 mm²/s @ 20 C |

### SECTION 12: Ecological information

#### 12.1. Toxicity

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

| HYDROGEN PEROXIDE 50 % (7722-84-1) |                                                                    |
|------------------------------------|--------------------------------------------------------------------|
| LC50 - Fish [1]                    | 16.4 mg/l Test organisms (species): Pimephales promelas            |
| LC50 - Fish [2]                    | 32 mg/l (Oncorhynchus mykiss)                                      |
| EC50 - Crustacea [1]               | 2.4 mg/l (Daphnia magna)                                           |
| EC50 - Crustacea [2]               | 7.7 mg/l (Daphnia pulex)                                           |
| EC50 - Other aquatic organisms [1] | 7.7 mg/l                                                           |
| EC50 - Other aquatic organisms [2] | IC50 algae (72 h) mg/l                                             |
| EC50 72h - Algae [1]               | 1.38 mg/l Test organisms (species): Skeletonema costatum           |
| LOEC (chronic)                     | 1.25 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC (chronic)                     | 0.63 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |

#### 12.2. Persistence and degradability

| HYDROGEN PEROXIDE 50 % (7722-84-1) |                           |
|------------------------------------|---------------------------|
| Persistence and degradability      | Inherently biodegradable. |

# HYDROGEN PEROXIDE 50 %

## Safety Data Sheet

According to Regulations for Hazardous Chemical Agents, 2021 and United Nations GHS revision 9

### 12.3. Bioaccumulative potential

#### HYDROGEN PEROXIDE 50 % (7722-84-1)

|                                                 |                                     |
|-------------------------------------------------|-------------------------------------|
| Partition coefficient n-octanol/water (Log Kow) | 0.032                               |
| Bioaccumulative potential                       | No additional information available |

### 12.4. Mobility in soil

#### HYDROGEN PEROXIDE 50 % (7722-84-1)

|                  |                                     |
|------------------|-------------------------------------|
| Mobility in soil | No additional information available |
| Ecology - soil   | Mobile.                             |

### 12.5. Other adverse effects

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

## SECTION 13: Disposal Considerations

### 13.1. Disposal methods

|                                            |                                                                                               |
|--------------------------------------------|-----------------------------------------------------------------------------------------------|
| Regional waste regulation                  | : Disposal must be done according to official regulations.                                    |
| Waste treatment methods                    | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Product/Packaging disposal recommendations | : Avoid release to the environment.                                                           |

## SECTION 14: Transport information

In accordance with SANS / IMDG / IATA

| SANS                                                                                | IMDG                                                                                | IATA                                                                                  |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>14.1. UN number</b>                                                              |                                                                                     |                                                                                       |
| 2014                                                                                | 2014                                                                                | 2014                                                                                  |
| <b>14.2. UN Proper Shipping Name</b>                                                |                                                                                     |                                                                                       |
| HYDROGEN PEROXIDE, AQUEOUS SOLUTION                                                 | HYDROGEN PEROXIDE, AQUEOUS SOLUTION                                                 | Hydrogen peroxide, aqueous solution                                                   |
| <b>14.3. Transport hazard class(es)</b>                                             |                                                                                     |                                                                                       |
| 5.1 (8)                                                                             | 5.1 (8)                                                                             | 5.1 (8)                                                                               |
|  |  |  |
| <b>14.4. Packing group, if applicable</b>                                           |                                                                                     |                                                                                       |
| II                                                                                  | II                                                                                  | II                                                                                    |
| <b>14.5. Environmental hazards</b>                                                  |                                                                                     |                                                                                       |
| Dangerous for the environment : No                                                  | Dangerous for the environment : No<br>Marine pollutant : No                         | Dangerous for the environment : No                                                    |
| No supplementary information available                                              |                                                                                     |                                                                                       |

### 14.6. Special precautions for user

|                           |       |
|---------------------------|-------|
| <b>SANS</b>               |       |
| Limited quantities (SANS) | : 1 L |
| Limited quantities (SANS) | : 1 L |

# HYDROGEN PEROXIDE 50 %

## Safety Data Sheet

According to Regulations for Hazardous Chemical Agents, 2021 and United Nations GHS revision 9

|                                                                           |                  |
|---------------------------------------------------------------------------|------------------|
| Packagings, large packagings and IBCs Packing instructions (SANS)         | : P504, IBC02    |
| Packagings, large packagings and IBCs Special packing instructions (SANS) | : PP10, B5       |
| Portable tank and bulk containers instructions (SANS)                     | : T7             |
| Portable tank and bulk container special provisions (SANS)                | : TP2, TP6, TP24 |

### IMDG

|                                    |                                                                                                                                                                                                                                                                                                                      |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Limited quantities (IMDG)          | : 1 L                                                                                                                                                                                                                                                                                                                |
| Excepted quantities (IMDG)         | : E2                                                                                                                                                                                                                                                                                                                 |
| Packing instructions (IMDG)        | : P504                                                                                                                                                                                                                                                                                                               |
| Special packing provisions (IMDG)  | : PP10                                                                                                                                                                                                                                                                                                               |
| IBC packing instructions (IMDG)    | : IBC02                                                                                                                                                                                                                                                                                                              |
| IBC special provisions (IMDG)      | : B5                                                                                                                                                                                                                                                                                                                 |
| Tank instructions (IMDG)           | : T7                                                                                                                                                                                                                                                                                                                 |
| Tank special provisions (IMDG)     | : TP2, TP6, TP24                                                                                                                                                                                                                                                                                                     |
| EmS-No. (Fire)                     | : F-H - FIRE SCHEDULE Hotel - OXIDIZING SUBSTANCES WITH EXPLOSIVE POTENTIAL                                                                                                                                                                                                                                          |
| EmS-No. (Spillage)                 | : S-Q - SPILLAGE SCHEDULE Quebec - OXIDIZING SUBSTANCES                                                                                                                                                                                                                                                              |
| Stowage category (IMDG)            | : D                                                                                                                                                                                                                                                                                                                  |
| Stowage and handling (IMDG)        | : SW1                                                                                                                                                                                                                                                                                                                |
| Segregation (IMDG)                 | : SGG16, SG16, SG59, SG72                                                                                                                                                                                                                                                                                            |
| Properties and observations (IMDG) | : Colourless liquid. Slowly decomposes, evolving oxygen; the rate of decomposition increases in contact with metals, except aluminium. In contact with combustible material may cause fire or explosion. Causes burns to skin, eyes and mucous membranes. Even though stabilized, these solutions may evolve oxygen. |

### IATA

|                                              |        |
|----------------------------------------------|--------|
| PCA Excepted quantities (IATA)               | : E2   |
| PCA Limited quantities (IATA)                | : Y540 |
| PCA limited quantity max net quantity (IATA) | : 0.5L |
| PCA packing instructions (IATA)              | : 550  |
| PCA max net quantity (IATA)                  | : 1L   |
| CAO packing instructions (IATA)              | : 554  |
| CAO max net quantity (IATA)                  | : 5L   |
| ERG code (IATA)                              | : 5C   |

## 14.7. Transport in bulk according to IMO instructions

Not applicable

## SECTION 15: Regulatory information

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

No additional information available

## SECTION 16: Other information

|               |              |
|---------------|--------------|
| Issue date    | : 19/02/2025 |
| Revision date | : 19/02/2028 |

|                            |                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Abbreviations and acronyms | : ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways<br>ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road<br>ATE - Acute Toxicity Estimate<br>BCF - Bioconcentration factor<br>BLV - Biological limit value<br>BOD - Biochemical oxygen demand (BOD) |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

# HYDROGEN PEROXIDE 50 %

## Safety Data Sheet

According to Regulations for Hazardous Chemical Agents, 2021 and United Nations GHS revision 9

COD - Chemical oxygen demand (COD)  
DMEL - Derived Minimal Effect level  
DNEL - Derived-No Effect Level  
EC-No. - European Community number  
EC50 - Median effective concentration  
EN - European Standard  
IARC - International Agency for Research on Cancer  
IATA - International Air Transport Association  
IMDG - International Maritime Dangerous Goods  
LC50 - Median lethal concentration  
LD50 - Median lethal dose  
LOAEL - Lowest Observed Adverse Effect Level  
NOAEC - No-Observed Adverse Effect Concentration  
NOAEL - No-Observed Adverse Effect Level  
NOEC - No-Observed Effect Concentration  
OECD - Organisation for Economic Co-operation and Development  
OEL - Occupational Exposure Limit  
PBT - Persistent Bioaccumulative Toxic  
PNEC - Predicted No-Effect Concentration  
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail  
SDS - Safety Data Sheet  
STP - Sewage treatment plant  
ThOD - Theoretical oxygen demand (ThOD)  
TLM - Median Tolerance Limit  
VOC - Volatile Organic Compounds  
CAS-No. - Chemical Abstract Service number  
N.O.S. - Not Otherwise Specified  
vPvB - Very Persistent and Very Bioaccumulative  
ED - Endocrine disrupting properties

### Full text of H-statements:

|      |                                              |
|------|----------------------------------------------|
| H271 | May cause fire or explosion; strong oxidiser |
| H302 | Harmful if swallowed                         |
| H314 | Causes severe skin burns and eye damage      |
| H332 | Harmful if inhaled                           |
| H335 | May cause respiratory irritation             |
| H402 | Harmful to aquatic life                      |

Safety Data Sheet (SDS), South Africa (HCA)

"DISCLAIMER: The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued. IMPROCHEM MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether ImproChem's product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of the ImproChem product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate ImproChem product to determine whether it is fit for a particular purpose and suitable for user's method of use or application. ImproChem provides information in electronic form as a service to its customers. Due to the remote possibility that electronic transfer may have resulted in errors, omissions or alterations in this information, ImproChem makes no representations as to its completeness or accuracy. In addition, information obtained from a database may not be as current as the information in the SDS available directly from ImproChem."