

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

Product form	: Substance
Trade name	: SUDBAK HP
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
Product code	: SUDBAK HP
Product group	: Trade product

1.2. Other means of identification

Other means of identification	: Hydrogen peroxide (H ₂ O ₂)
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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
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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
Serious eye damage/eye irritation, Category 1		H318
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,Causes serious eye damage,Harmful to aquatic life	

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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
Name : SUDBAK HP
CAS-No. : 7722-84-1
EC-No. : 231-765-0
EC Index-No. : 008-003-00-9
Chemical name : hydrogen peroxide solution... %
Product identifiers: See section 1.1

Name	Product identifier	%	Classification according to the United Nations GHS
HYDROGEN PEROXIDE 50%	CAS-No.: 7722-84-1	35 – 80	Flam. Liq. Not classified Ox. Liq. 1, H271 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Corr. 1A, H314 STOT SE 3, H335 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. Call a poison center or a doctor if you feel unwell.

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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.
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.
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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".
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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.
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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. 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	: 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

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

Colour	: Clear water white to pale yellow. Clear water white to pale yellow
Odour	: Odourless. Odourless
Odour threshold	: No data available
pH	: ≤ 3.7
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	: 100 °C
Flammability	: Non flammable.
Vapour pressure	: 299.25 Pa
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	: 1.13 @ 20 C
Relative gas density	: No data available
Solubility	: Miscible with water. 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.

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10.6. Hazardous decomposition products

Oxygen which supports combustion. Liable to overpressure in container.

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.

SUDBAK HP (7722-84-1)

LD50 oral rat	> 225 mg/kg (50 % Solution)
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: other.:, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat (Dust/Mist)	> 170 mg/m ³

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.
pH: ≤ 3.7
Serious eye damage/irritation : Causes serious eye damage.
pH: ≤ 3.7
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.

HYDROGEN PEROXIDE 50% (7722-84-1)

STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SUDBAK HP (7722-84-1)

Viscosity, kinematic	1.1 mm ² /s @ 20 C
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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

SUDBAK HP (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)

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

SUDBAK HP (7722-84-1)

EC50 - Other aquatic organisms [1]	7.7 mg/l
EC50 - Other aquatic organisms [2]	IC50 alga (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'

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 alga (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

SUDBAK HP (7722-84-1)

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

Persistence and degradability	Inherently biodegradable.
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12.3. Bioaccumulative potential

SUDBAK HP (7722-84-1)

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

HYDROGEN PEROXIDE 50% (7722-84-1)

Partition coefficient n-octanol/water (Log Kow)	0.032
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12.4. Mobility in soil

SUDBAK HP (7722-84-1)

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

HYDROGEN PEROXIDE 50% (7722-84-1)

Ecology - soil	Mobile.
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12.5. Other adverse effects

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

SUDBAK HP

Safety Data Sheet

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

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
14.1. UN number		
2014	2014	2014
14.2. UN Proper Shipping Name		
HYDROGEN PEROXIDE, AQUEOUS SOLUTION	HYDROGEN PEROXIDE, AQUEOUS SOLUTION	Hydrogen peroxide, aqueous solution
14.3. Transport hazard class(es)		
5.1 (8)	5.1 (8)	5.1 (8)
		
14.4. Packing group, if applicable		
II	II	II
14.5. Environmental hazards		
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

Limited quantities (SANS)	: 1 L
Limited quantities (SANS)	: 1 L
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

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

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 ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road ATE - Acute Toxicity Estimate BCF - Bioconcentration factor BLV - Biological limit value BOD - Biochemical oxygen demand (BOD) 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
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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
H318	Causes serious eye damage
H332	Harmful if inhaled
H335	May cause respiratory irritation
H402	Harmful to aquatic life

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

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