

SAFETY DATA SHEET (SDS)



PerOxySan/HUD577

1. Identification

Product Name: PerOxySan/HUD577
Product Code: PERL001
Recommended Use: Peracetic Based Sanitizer

Supplier Details: Orlichem (PTY) Ltd
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2. Hazards identification

Classification	Health:	Skin Corrosion	(Category 1A),	H314
		Specific target organ toxicity - single exposure	(Category 3),	H335
	Environmental:	Acute aquatic toxicity	(Category 1),	H400
	Physical:	Flammable liquids	(Category 3),	H226
		Organic peroxides	(Type D),	H242
		Corrosive to metals	(Category 1),	H290

Label element
Labelling
according
Regulation (EC)
No 1272/2008



Hazard Statements	Health:	H314 Causes severe skin burns and eye damage. H335 May cause respiratory irritation.
	Environmental:	H400 Very toxic to aquatic life.
	Physical:	H226 Flammable liquid and vapour. H242 Heating may cause a fire. H290 May be corrosive to metals.

Precautionary Statements	General:	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
	Prevention:	P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
	Response:	P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P370 + P378 In case of fire: Use dry powder or dry sand to extinguish.
	Storage:	P234 Keep only in original container.

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Disposal:

3. Composition / Information on ingredients

Substance Mixture

Name	CAS No.	EC No.	Index No.	%
Acetic Acid	64-17-7	200-580-7	607-002-00-6	< 10
Peracetic Acid	79-21-0	201-186-8	607-094-00-8	>= 10 - <17
Hydrogen Peroxide	7722-84-1	231-765-0	008-003-00-9	>= 10 < 15 %

Occupational Exposure Limit(s), if available, are listed in section 8

4. First- Aid Measures

- Eye Contact:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. (P305+351+338)
Get immediate medical advice/attention. (P315)
- Skin Contact:** IF ON SKIN: Wash with plenty of water (P302+352)
IF ON SKIN: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower (P303+361+353)
Get immediate medical advice/attention. (P315)
- Inhalation:** IF INHALED: Remove person to fresh air and keep comfortable for breathing. (P304+340)
If eye irritation persists get medical advice/attention (P337+313)
- Ingestion:** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. (P301+330+331)
Give Water or Milk to Drink.
Get immediate medical advice/attention. (P315)

Most important symptoms/effects, acute and delayed.

- Eye Contact:** Severe irritation, burning and tearing. Prolonged contact causes serious eye and tissue damage.
- Skin Contact:** Burning pain and severe corrosive skin damage. May cause serious chemical burns to the skin.
- Inhalation:** Irritation of nose, throat and airway. Coughing, chest tightness, feeling of chest pressure.
- Ingestion:** Ingestion causes burns in the mouth, throat and oesophagus.

Indication of immediate medical attention and special treatment needed

No Information Available

5. Fire-Fighting measures

Extinguishing Media

Water Wet chemical Foam Dry powder Carbon dioxide
 Vaporising liquid Halon

Do not use water jet as an extinguisher, as this will spread the fire

Specific hazards arising from the chemical

- Decomposition products may include the following materials:
- Carbon Oxides
 - Sulphur oxides

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Special protective equipment and precautions for firefighters

Use personal protective equipment.

Keep containers exposed to fire cool with water spray.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

6. Accident release measures

Personal precautions, protective equipment and emergency procedures

- Personal Precautions:** Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material.
- Protective Equipment:** Wear protective clothing as per Section 8 (Exposure controls / personal protection)
- Emergency Procedures:** As an immediate precautionary measure, isolate spill or leak area. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area) Keep out of low areas. Keep unauthorized personnel away.

Environmental precautions Do not allow contact with surface or ground water.

Methods and materials for containment and cleaning up: Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway

7. Handling and Storage

Precautions for safe handling

Handling: Do not get in eyes. (P262)
Wash hands thoroughly after handling.(P264)
Do not eat, drink or smoke when using this product.(P270)
Wear protective gloves/protective clothing/eye protection/face protection.(P280)

Conditions for safe storage, including any incompatibilities

Storage: Keep out of reach of children. (P102)
Store in a dry place. Store in a closed container.(P402+404)
Keep only in original container. (P234)
Store away from other materials. (P420) (Such As Acids)

Incompatible Materials: Oxidizing agents, Strong reducing agents, Combustible materials, Heavy metals

8. Exposure controls / personal protection

Control parameters

Material Name	Cas No.	TWA	STEL	Notes
Peracetic Acid	79-21-0	-	0.4mg/m3 @ 15 min	Weight Averaged
Hydrogen Peroxide	7722-84-1	-	1.4mg/m3 @ 15 min	theoretically calculated

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Exposure controls

Engineering Controls: Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable exposure limit values. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Occupational Exposure Control



Wear protective gloves



Wear safety goggles, giving complete eye protection.



Wear protective clothing



No Respiratory protection is required unless subject to contact with substance mist.



Wear protective footwear.

Hygiene measures: Wash hands, forearms, and face thoroughly after handling compounds and before eating, smoking, and using lavatory and at the end of the day.

9. Physical and chemical properties

Appearance:	Liquid, Water White
Odour:	Pungent
Odour threshold:	Not Available
pH:	1.00 – 2.00
Melting point / freezing point:	-44°C
Initial boiling point and boiling range:	Weighted average: 107°C at 1013 hPa
Flash point:	± 83°C
Evaporation rate:	Not Available
Flammability (solid, gas):	Non - Flammable
Upper/lower flammability or explosive limits:	Not Available
Vapour pressure:	20 mm Hg @ 25°C
Vapour density:	Weighted average: 1 (Air = 1)
Relative density:	1.05 – 1.13 g/cm ³ @ 25°C
Solubility(ies)	Easily soluble in cold water, hot water
Partition coefficient: n-octanol/water:	Not Available
Auto-ignition temperature:	218°C
Decomposition temperature:	Not Available
Viscosity:	Not Available
Explosive properties:	Not Available
Oxidising properties:	Not Available

10. Stability and reactivity

Reactivity: No dangerous reaction known under conditions of normal use.
Chemical stability: Stable under normal temperatures and pressures.

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Possibility of hazardous reactions:	No hazardous reactions known if used for its intended purpose.
Conditions to avoid:	See Section 7 (Handling and Storage)
Incompatible materials:	Oxidizing agents, Strong reducing agents, Combustible materials, Heavy metals
Hazardous decomposition products:	Carbon Oxides, Sulphur oxides

11. Toxicological information

Component Name	CAS No.	Data
Peracetic Acid	79-21-0	Acute Toxicity: LD50 - 1540mg/kg (Oral - Rat) Irritation: LD50 - 1410µL/kg (Dermal - Rabbit) Reproductive: Not Available
Hydrogen Peroxide	7722-84-1	Acute Toxicity: LD50 - 910mg/kg (Oral - Rat) Irritation: LD50 - >2000mg/kg (Dermal - Rabbit) Reproductive: Not Available

acute toxicity:	×	Carcinogenicity:	×
skin corrosion/irritation:	✓	reproductive toxicity:	×
serious eye damage/irritation:	✓	STOT-single exposure:	×
respiratory or skin sensitization:	✓	STOT-repeated exposure:	×
germ cell mutagenicity:	×	aspiration hazard:	×

✓ Data Required to make classification available
 × Not Available

Route(s) of entry/exposure

Eye:	Acute (Immediate): Causes eye irritation (H320) Chronic (Delayed): Causes serious eye damage (H318)
Skin:	Acute (Immediate): Causes skin irritation (H315) Chronic (Delayed): Causes severe skin burns (H314)
Inhalation:	Acute (Immediate): May be harmful if inhaled (H333) Chronic (Delayed): May cause allergy or asthma symptoms or breathing difficulties if inhaled (H334)
Ingestion:	Acute (Immediate): May be harmful if swallowed (H303) Chronic (Delayed): May be harmful if swallowed and enters airways (H305)

12. Ecological information

Toxicity

Components	Species	Test Results
Peracetic Acid (CAS 79-21-0)		

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Fish	Oncorhynchus mykiss	0.5 mg/l @ 96 hours
Invertebrates, Aquatic	Daphnia magna	0.05 mg/l @ 21 days
Algae	Selenastrum capricornutum	0.18 mg/l @ 120 hours

Hydrogen Peroxide (CAS 7722-84-1)		
Fish	Pimephales promela	16.4 mg/l @ 96 hours
Invertebrates, Aquatic	Daphnia magna	7.7 mg/l @ 96 hours
Algae	Not Available	Not Available

Persistence and degradability

Abiotic Degradation:	Not Available
Physical- and photo-chemical elimination:	Not Available
Biodegradation:	Product is readily biodegradable

Bioaccumulative potential

Partition coefficient n-octanol /water (log Kow):	Not Available
Bioconcentration factor (BCF):	Not Available

Mobility in Soil

Known or predicted distribution to environmental compartments:	Completely soluble in water
Surface tension:	Not Available
Adsorption/Desorption:	Not Available

Results of PBT and vPvB assessment

Not a PBT according to REACH Annex XIII

Other adverse effects

Not Applicable

13. Disposal considerations

Waste treatment methods

Product waste:	Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
Packaging waste:	Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. Where possible recycle container. Consult manufacturer for recycling options.

14. Transport information





International transport regulations

UN No.

Class

Label

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Regulatory Information		Proper Shipping Name		Packaging Group	Environmental hazards	
ARD/RID Class Land-Road/Railway	3109	Organic peroxide type F, liquid	8	II	-	
ADN Class Inland Waterways	3109	Organic peroxide type F, liquid	8	II	-	
IMDG Sea	3109	Organic peroxide type F, liquid	8	II	-	
IATA-DGR Class Air	3109	Organic peroxide type F, liquid	8	II	-	

Special precautions for user: None specified
Emergency Response Guidebook Number: 145
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: This product is provided only in non-bulk containers.

15. Regulatory Information

Hazard Symbol(s)



Classification

Danger

Hazardous Statement:

H314 - Causes severe skin burns and eye damage

H226 - Flammable liquid and vapour

H242 - Heating may cause a fire

Precautionary Statements

P102 - Keep out of reach of children.

P103 - Read label before use.

P260 - Do not breathe dust/fume/gas/mist/vapours/spray

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

P402+404 - Store in a dry place. Store in a closed container.

P501 - Dispose of contents/container in accordance with local/regional/national/international regulation.

Product Use:

Industrial applications

16. Other information

Date of Issue / Last Revision: 31 July 2019

SDS Code: POS001

Revision: 1 – 0

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**THIS SAFETY DATA SHEET COMPILES TO THE:
UNITED NATIONS – GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS
(GHS) – FIFTH REVISED EDITION 2013**

Disclaimer:

This SDS summarizes at the date of issue, our best knowledge of the health, safety and environmental hazard information related to the product, and in particular, how to safely handle, use and transport the product in the workplace. Since Orlichem (Pty) and its subsidiaries cannot anticipate or control the conditions under which the product may be handled, used, stored or transported, each user must, prior to usage, review SDS in the context of how it is to be handled. We shall not assume any liability for the accuracy or completeness of the information herein or any advice given. Product is sold subject to our standard terms and conditions.

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