



SAFETY DATA SHEET

OXY PLUS

Infosafe No.: 7EFBD
ISSUED Date : 15/11/2016
ISSUED by: JASOL NEW ZEALAND

CLASSIFIED AS HAZARDOUS

1. IDENTIFICATION

GHS Product Identifier

OXY PLUS

Product Code

2141160, 2141170, 2141180, 7110980

Company Name

JASOL NEW ZEALAND

Address

81 Leonard Road
Mt. Wellington Auckland
NEW ZEALAND

Telephone/Fax Number

Tel: +64 9 580 2105
Fax: +64 9 571 4388

Emergency phone number

0800 243 622

Emergency Contact Address

North Island:
81 Leonard Road, Mt. Wellington, Auckland 1060
Phone: +64 9 5802105
Fax: +64 9 5714388

South Island:
105 Rutherford Street, Christchurch 8023
Phone: +64 3 3844433
Fax: +64 3 3844431

(24 hour a day available)

0800 243622

E-mail Address

asolnzorders@gwf.com.au

Recommended use of the chemical and restrictions on use

Used for the effective sanitation and control of waterborne pathogens and ensures clean, oxygen rich water.

2. HAZARD IDENTIFICATION

GHS classification of the substance/mixture

Classified as Hazardous according to the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001, New Zealand.
Classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433:2012 Transport of Dangerous Goods on Land.

5.1.1B Oxidising substances that are liquids or solids: medium hazard

- 6.1D (Oral) - Substance that is acutely toxic
6.9B (Single exposure) - Substance that is harmful to human target organs or systems
8.2B Substance that is corrosive to dermal tissue
8.3A Substance that is corrosive to ocular tissue
9.1D Substance that is slightly harmful to the aquatic environment or is otherwise designed for biocidal action
9.3C Substance that is harmful to terrestrial vertebrates

Signal Word (s)

DANGER

Hazard Statement (s)

H272 May intensify fire; oxidiser.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H371 May cause damage to organs.
H402 Harmful to aquatic life.
H433 Harmful to terrestrial vertebrates.

Precautionary Statement (s)

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.

Pictogram (s)

Flame over circle, Corrosion, Exclamation mark, Health hazard



Precautionary statement – Prevention

P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P220 Keep/Store away from clothing/combustible materials.
P221 Take any precaution to avoid mixing with combustibles
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash contaminated skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement – Response

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P309+P311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
P310 Immediately call a POISON CENTER or doctor/physician.
P321 Specific treatment (see on this label).
P363 Wash contaminated clothing before reuse.
P370+P378 In case of fire: Use for extinction.

Precautionary statement – Storage

P405 Store locked up.

Precautionary statement – Disposal

P501 In the case of a substance that is in compliance with a HSNO approval other than a Part 6A (Group Standards) approval, a label must provide a description of one or more appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Regulations 2001. This may also include any method of disposal that must be avoided. See Section 13 for disposal details.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Name	CAS	Proportion
Hydrogen Peroxide.	7722-84-1	30-60%
Silver Nitrate	7761-88-8	<1%
Ingredients determined not to be hazardous	-	<1%
Water	7732-18-5	Remainder

4. FIRST-AID MEASURES

Inhalation

If inhaled, remove from contaminated area. To protect rescuer, use an Air-line respirator where an inhalation risk exists. Apply artificial respiration if not breathing. If required seek medical attention.

Ingestion

If swallowed, rinse mouth with water. DO NOT induce vomiting. For advice, contact the National Poisons Centre at 0800 764 766 (0800 POISON) or +64 3 479 7248 or a doctor (at once).

Skin

Remove contaminated clothing and gently flush affected areas with water. Product may penetrate skin and cause severe deep burns. Seek immediate medical attention. Launder clothing before reuse.

Eye contact

If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes. Seek medical attention.

First Aid Facilities

Eye wash facilities and safety shower should be available.

Advice to Doctor

1. Most Important Symptoms and Effects, Both Acute and Delayed:

No adverse health effects expected if the product is handled in accordance with this SDS and the product label. See Section 11 for more detailed information on health effects and symptoms.

2. Immediate Medical Attention and Special Treatment Needed

Treat symptomatically.

Hydrogen peroxide at moderate concentrations (5% or more) is a strong oxidant.

- Direct contact with the eye is likely to cause corneal damage especially if not washed immediately. Careful ophthalmologic evaluation is recommended and the possibility of local corticosteroid therapy should be considered.
- Because of the likelihood of systemic effects attempts at evacuating the stomach via emesis induction or gastric lavage should be avoided.
- There is remote possibility, however, that a nasogastric or orogastric tube may be required for the reduction of severe distension due to gas formation"

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing media appropriate for the surrounding fire. Use water spray or fog, for large quantities.

Specific Hazards Arising From The Chemical

Non-flammable, but is an oxidising agent. May increase fire intensity. Do not expose to heat and ignition sources. May ignite in contact with incompatible materials. May emit irritating, poisonous or corrosive fumes

Hazchem Code

2P

Decomposition Temperature

Not available

Other Information

Advice for Firefighters:

Containers may explode in fire. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas. Prevent spillage from entering drains or waterways.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS. Avoid breathing dust or vapours and all contact with eyes and skin. Ventilate area where possible

Methods And Materials For Containment And Cleaning Up

Contain spillage, then cover / absorb spill with non-combustible absorbent material (vermiculite, sand, or similar), collect and place in suitable containers for disposal.

Environmental Precautions

Prevent product from entering drains and waterways.

Other Information

Reference to Other Sections:

See Sections 8 and 13 for exposure controls and disposal.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Before use carefully read the product label. Always wear protective equipment to avoid eye or skin contact and inhalation. Wash off spillage from clothing.

Mild steel, brass, bronze and copper equipment should not be used.

Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated area, out of reach of children, away from incompatible substances, heat or ignition sources and foodstuffs.

Store in original container with vented lid and ensure containers are adequately labelled, protected from physical damage and sealed when not in use and in a bunded area.

Avoid storage with combustible materials, reducing agents, heavy metals and their salts. Contamination with incompatibles may cause fire or explosion.

Regularly check the condition and temperature of the containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit values

Source: New Zealand Workplace Standards (WES)

Material	TWA	STEL	PEAK	
hydrogen peroxide	1ppm	1.4mg/m ³	Not available	Not available

Appropriate Engineering Controls

Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical explosion proof extraction ventilation is recommended. Maintain vapour levels below the recommended exposure standard.

Personal Protective Equipment

Eye / Face:

Splash-proof goggles and face shield.

Hands:

Chemical resistant gloves.

Body:

Coveralls PVC apron and safety boots. Wear trousers outside of boots.

Respiratory:

Type B-P Filter of sufficient capacity. Where an inhalation risk exists, wear an Air-line respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form

Liquid

Appearance

Liquid

Colour

Clear, colourless

Odour

Slight pungent odour

Decomposition Temperature

Not available

Melting Point

Not available

Boiling Point

Not available

Specific Gravity

1.195 – 1.215

pH

pH (1% solution): Not available

pH (as supplied): Not available

Vapour Pressure

Not available

Vapour Density (Air=1)

Not applicable

Evaporation Rate

Not available

Volatile Component

Not available

Flash Point

Not applicable

Auto-Ignition Temperature

Not applicable

Explosion Limit - Upper

Not applicable

Explosion Limit - Lower

Not applicable

10. STABILITY AND REACTIVITY

Chemical Stability

Potential for exothermic hazard. Stable under recommended storage conditions

Conditions to Avoid

Avoid heat, sparks, open flames and other ignition sources. Avoid contamination

Incompatible materials

Incompatible with combustible materials, reducing agents (e.g. sulphites), acids (e.g. nitric acid), alkalis (e.g. sodium hydroxide), metals, heat and ignition sources. May explode if heated.

Hazardous Decomposition Products

May evolve toxic gases if heated to decomposition.

Possibility of hazardous reactions

Polymerization is not expected to occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information

This product has the potential to cause adverse health effects. Use safe work practices to avoid eye or skin contact and inhalation. Over exposure may result in severe and permanent eye, skin and respiratory damage. Upon dilution, the potential for corrosive effects may be reduced.

Ingestion

Ingestion may result in burns to the mouth and throat, nausea, vomiting, ulceration of the gastrointestinal tract, breathing difficulties, circulatory collapse and coma.

Inhalation

-Over exposure may result in mucous membrane irritation of the respiratory tract, coughing and possible burns.
-High level exposure may result in ulceration of the respiratory tract, breathing difficulties, chemical pneumonitis and pulmonary oedema.

Chronic Effects

- There presently exists inadequate data for making a satisfactory assessment. Limited evidence suggests that repeated or long-term occupational exposure may produce cumulative health effects involving organs or biochemical systems.
- Hydrogen peroxide as a human food additive is generally regarded as safe when used in certain limitations.
- Repeated or prolonged exposure to acids may result in the erosion of teeth, inflammatory and ulcerative changes in the mouth and necrosis (rarely) of the jaw. Bronchial irritation, with cough, and frequent attacks of bronchial pneumonia may ensue.

Other Information

Toxicity data:

- Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound.
- For hydrogen peroxide the hazard increases with peroxide concentration.

12. ECOLOGICAL INFORMATION

Ecotoxicity

No information provided.

Persistence and degradability

This product is readily biodegradable

Mobility

HIGH. Evaporation and adsorption non-significant.

Bioaccumulative Potential

LOW.

Other Adverse Effects

Gaseous hydrogen peroxide is recognized to be a key component and product of the earth's lower atmospheric photochemical reactions, both in a clean and polluted atmosphere. Hydrogen peroxide released to the atmosphere will degrade quite rapidly. Hydrogen peroxide is not expected to accumulate in the food chain.

13. DISPOSAL CONSIDERATIONS

Waste Disposal

Absorb with double volume of 90:10 mixture of sand-soda ash mixture. Mix thoroughly. Using a plastic scoop, slowly add to a large beaker of sodium sulphite solution (3-4 litres), stirring. Neutralise with dilute sulphuric acid. Once settled, decant sulphate solution and discard of residue to an approved landfill site. Small amounts can be diluted with excess water and flushed to sewer.

Local Legislation

Recycle where possible otherwise ensure that:

- Licenced contractors dispose of the product and its container.
- Disposal occurs at a licenced facility.

14. TRANSPORT INFORMATION

U.N. Number

2014

UN proper shipping name

HYDROGEN PEROXIDE, AQUEOUS SOLUTION

Transport hazard class(es)

5.1

Sub.Risk

8

Packing Group

II

Hazchem Code

2P

IERG Number

31

UN Number (Sea Transport)

2014

UN Number (Road Transport)

2014

UN Number (Air Transport, ICAO)

2014

IATA/ICAO Hazard Class

5.1

IATA/ICAO Packing Group

II

IATA/ICAO Sub Risk

8

LIMITED QUANTITY - Max Net Quantity/Pkge

1L

IMDG UN No

2014

IMDG Hazard Class

5.1

IMDG Sub. Risk

8

IMDG Pack. Group

II

IMDG Subsidiary Risk

8

IMDG Marine pollutant

No

15. REGULATORY INFORMATION

National and or International Regulatory Information

Regulations:

This substance should be managed in accordance with the requirements specified in the Cleaning Products (Oxidising [5.1.1], Corrosive) Group Standard 2006.

Hydrogen peroxide (CAS: 7722-84-1) is found on the following regulatory lists;

"GESAMP/EHS Composite List - GESAMP Hazard Profiles", "IMO IBC Code Chapter 17: Summary of minimum requirements", "IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk", "International Agency for Research on Cancer (IARC) - Agents Reviewed by the IARC Monographs", "International Air Transport Association (IATA) Dangerous Goods Regulations", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Dangerous Goods", "New Zealand Inventory of Chemicals (NZIoC)", "New Zealand Workplace Exposure Standards (WES)", "OECD Representative List of High Production Volume (HPV) Chemicals".

Silver nitrate (CAS: 7761-88-8) is found on the following regulatory lists;

"International Council of Chemical Associations (ICCA) - High Production Volume List", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Chemicals (single components)", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Dangerous Goods", "New Zealand Inventory of Chemicals (NZIoC)", "OECD Representative List of High Production Volume (HPV) Chemicals".

Water (CAS: 7732-18-5) is found on the following regulatory lists;

"IMO IBC Code Chapter 18: List of products to which the Code does not apply", "New Zealand Inventory of Chemicals (NZIoC)", "OECD Representative List of High Production Volume (HPV) Chemicals".

HSNO Approval Number

HSR002591

Other Information

Specific advice on controls required for materials used in New Zealand can be found at <http://www.epa.govt.nz/hazardous-substances/approvals/Pages/default.aspx>

16. OTHER INFORMATION

Date of preparation or last revision of SDS

15/11/2016

Technical Contact Numbers

24 Hour Emergency Contact: 0800 CHEMCALL (0800 243 622)

New Zealand Poisons Information Centre: 0800 POISON (0800 764 766)

New Zealand Emergency Services: 111

Other Information

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings.

This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Jasol NZ cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

If clarification or further information is needed, the user should contact their Jasol NZ representative or Jasol NZ at the contact details on page 1.

Jasol NZ's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.

END OF SDS

© Copyright Chemical Safety International Pty Ltd

Copyright in the source code of the HTML, PDF, XML, XFO and any other electronic files rendered by an Infosafe system for Infosafe SDS displayed is the intellectual property of Chemical Safety International Pty Ltd.

Copyright in the layout, presentation and appearance of each Infosafe SDS displayed is the intellectual property of Chemical Safety International Pty Ltd.

The compilation of SDS's displayed is the intellectual property of Chemical Safety International Pty Ltd.
Copying of any SDS displayed is permitted for personal use only and otherwise is not permitted. In particular the SDS's displayed cannot be copied for the purpose of sale or licence or for inclusion as part of a collection of SDS without the express written consent of Chemical Safety International Pty Ltd.