

Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

Product identifier:

Identification as on the label/Trade name: CleanOxide Tablets

Relevant identification uses of the substance and uses advised against:

Identified uses: Water disinfection.

Uses advised against: No other uses are advised.

Details of the supplier of the Safety Data Sheet:

Natural Water Solutions
Unit 6/7 Prindiville Dr
Wangara, WA 6065
Australia
+61-1800-226-303

Emergency telephone number:

24-hour Emergency Contact:
Poisons Information Centre: 13 11 26

Section 2: Hazards Identification

Classification of the substances or mixture:

The mixture is classified according to: Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

Hazard classes/Hazard categories:

Acute toxicity (oral), Category 4
Acute toxicity (dermal), Category 3
Skin corrosive, Category 1
STOT RE, Category 2
Aquatic acute, Category 2

Label elements:

Hazard pictogram:



Signal word: Danger.

Hazard statements:

H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H373 May cause damage to organs through prolonged or repeated exposure.

H401 Toxic to aquatic life.

Precautionary statements:

Prevention

P260 Do not breathe dusts or mists.

P264 + P265 Wash hands thoroughly after handling. Do not touch eyes.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

P280 Wear protective gloves/eye protection/protective clothing.

Response

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water.

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

P305 + P354 + P338 IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P330 Rinse mouth.

P361 + P364 Take off immediately all contaminated clothing and wash it before reuse.

Storage

P405 Store locked up.

Disposal

Dispose of contents/container in accordance with local/national regulations.

Section 3: Composition/Information on Ingredients

Substance/Mixture: Mixture.

Ingredients:

Substance name (IUPAC/EC)	CAS-No.	Concentration % by weight	SCLs, M-Factors, Acute Toxicity Estimates (ATE)	Classification EC1272/2008
	EC-No.			
Sodium chlorite	7758-19-2	15 – 20%	M=1	Ox. Sol. 1 H271 Acute Tox. 3 H301 Acute Tox. 2 H310 Skin Corr. 1B H314 STOT RE 2 H373 Aquatic Acute 1 H400
	231-836-6			
Sodium hydrogensulphate	7681-38-1	10 – 15%	-	Eye Dam. 1 H318
	231-665-7			

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Section 4: First-Aid Measures

Description of first aid measures:

General: You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 11 26 from anywhere in Australia (0800 764 766 in New Zealand). Have this Safety Data Sheet with you when you call.

Inhalation: If symptoms of poisoning become evident, contact a Poisons Information Centre, or call a doctor at once. Remove source of contamination or move victim to fresh air. If breathing is difficult, oxygen may be beneficial if administered by trained personnel, preferably on a doctor's advice. DO NOT allow victim to move about unnecessarily. Symptoms of pulmonary oedema can be delayed up to 48 hours after exposure.

Skin contact: Quickly and gently brush away excess particles. Seek urgent medical attention. Remove contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Flush contaminated area with lukewarm, gently flowing water for at least 60 minutes, by the clock. DO NOT INTERRUPT FLUSHING. If necessary, keep emergency vehicle waiting (show paramedics this SDS and take their advice).

Eye contact: Quickly and gently brush particles from eyes. Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for at least 20-30 minutes, by the clock, while holding the eyelid(s) open. Neutral saline solution may be used as soon as it is available. DO NOT INTERRUPT FLUSHING. If necessary, keep emergency vehicle waiting (show paramedics this Safety Data Sheet and follow their advice). Take care not to rinse contaminated water into the unaffected eye or onto face. If irritation persists, repeat flushing. Call a Poisons Information Centre or a doctor urgently. Take special care if exposed person is wearing contact lenses.

Ingestion: If swallowed, do NOT induce vomiting. Rinse mouth thoroughly with water and contact a Poisons Information Centre. Urgent hospital treatment is likely to be needed. Give activated charcoal if instructed.

Most important symptoms and effects, both acute and delayed:

Skin contact: Capable of causing moderate to severe burns with ulceration. Can penetrate to deeper layers of skin, resulting in third degree burns. Corrosion will continue until product is removed or neutralized. Severity depends on concentration and duration of exposure. Burns may not be immediately painful the onset of pain may be minutes to hours.

Eye contact: Short Term Exposure: This product is very corrosive to eyes. It will quickly cause severe pain, and corrosion of the eye and surrounding facial tissues. Unless exposure is immediately treated, permanent blindness and facial scarring will occur.

Indication of any immediate medical attention and special treatment needed: Treat symptomatically.

Section 5: Fire-Fighting Measures

Extinguisher media:

Suitable extinguishing media: In case of fire, use carbon dioxide, dry chemical or foam. Water fog or fine spray is the preferred medium for large fires.

Unsuitable extinguishing media: High volume water jet.

Special hazards arising from the substance or mixture: None known.

Advice for firefighters: Evacuate area and contact emergency services. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

In the event of a major spill, prevent spillage from entering drains or water courses. Evacuate the spill area and deny entry to unnecessary and unprotected personnel. Immediately call the Fire Brigade. Wear full protective chemically resistant clothing including eye/face protection, gauntlets and Self-Contained Breathing Apparatus. See below under Personal Protection regarding Australian Standards relating to personal protective equipment. If there is a significant chance that dusts are likely to build up in cleanup area, we recommend that you use a suitable dust mask.

Environmental precautions: Prevent run-off into drains or waterways using sand, earth or other non-combustible material. If product does enter a waterway advise the environmental protection authority or your local waste management. Notify all downstream water users of possible contamination.

Methods for containment and cleaning up:

Soak up spilled solutions using absorbent non-combustible material such as sand or soil. Flush spill area with large amounts of water. Do not allow spilled material to dry. Dried material can ignite in contact with combustible materials. Do not place spilled material back in the original container. Containerize and label all spilled material properly. Minor spills that have been diluted with water can be neutralized with sodium sulphite or sodium bisulphite solution. Keep all recovered material damp and place in drums for disposal. Dispose of recovered materials promptly.

Section 7: Handling and Storage

Precautions for safe handling:

Keep exposure to this product to a minimum, and minimize the quantities kept in work areas. Check Section 8 of this SDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimize risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10. Take special care if handling this product over extended periods as effects are cumulative.

Hygiene measures: Wash hands before breaks and immediately after handling the product.

Conditions for safe storage, including incompatibilities:

Store in a cool, well-ventilated area. Keep containers closed when not in use. Incompatible with acids, reducing agents, combustible materials, oxidizing materials, hypochlorite, organic solvents and compounds.

Specific end uses: Use only as directed.

Section 8: Exposure Controls and Personal Protection

Control parameters:

Occupational exposure limits: Exposure limits have not been established by SWA for any of the significant ingredients in this product.

Exposure controls:

Appropriate engineering controls: No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

Individual protection measures, such as personal protective equipment:

Respiratory protection: This product should only be used in a well-ventilated area. If natural ventilation is inadequate, mechanical extraction is recommended.

Skin protection: Because of the dangerous nature of this product, make sure that all skin areas are completely covered by impermeable gloves, overalls, hair covering, apron and face shield.

Eye protection: Your eyes must be completely protected from this product by splash resistant goggles with face shield. All surrounding skin areas must be covered. Emergency eye wash facilities must also be available in an area close to where this product is being used.

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties:

Appearance (form): Solid.

Colour: White.

Odour: Odourless – slight chlorine.

Odour threshold: No data available.

pH (0.2% in water): 5 – 8

Melting point/range (°C): No data available.

Boiling point/range (°C): No data available.

Flash point (°C): No data available.

Evaporation rate: No data available.

Flammability (solid, gas): No data available.

Upper/lower flammability/explosive limits: No data available.

Vapour pressure (20 °C): No data available.

Vapour density: No data available.

Relative density (25 °C): 1.5

Water solubility (g/L) at 20 °C: Reacts with water.

n-Octanol/Water partition coefficient: No data available.

Auto-ignition temperature: No data available.

Decomposition temperature: No data available.

Viscosity, dynamic (mPa.s): No data available.

Section 10: Stability and Reactivity

Reactivity: Stable under recommended storage conditions.

Chemical stability: The product is stable under normal conditions.

Possibility of hazardous reactions: No dangerous reaction known under conditions of normal use.

Conditions to avoid: Avoid excessive heat and exposure to direct sunlight. Do not allow product to evaporate.

Incompatible materials: Incompatible with acids, reducing agents, combustible materials, oxidizing agents (such as hypochlorite), organic solvents, and organic compounds.

Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition may emit toxic fumes including chlorine and oxides of sodium.

Section 11: Toxicological Information

Information on toxicological effects:

Acute toxicity: Harmful if swallowed. Toxic in contact with skin.

Skin corrosion/irritation: Causes severe skin burns and eye damage.

Serious eye damage/irritation: Causes serious eye damage.

Respiratory or skin sensitization: No data available.

Germ cell mutagenicity: No data available.

Carcinogenicity: No data available.

Reproductive toxicity: No data available.

STOT-single exposure: No data available.

STOT-repeated exposure: May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard: No data available.

Section 12: Ecological Information

Toxicity: Toxic to aquatic life.

Persistence and degradability: This product is inorganic and not readily biodegradable.

Bioaccumulative potential: Not expected to have any potential to bioaccumulate.

Mobility in soil: No data available.

Results of PBT& vPvB assessment: No data available.

Other adverse effects: No data available.

Section 13: Disposal Considerations

Waste treatment methods: This product may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to separate the contamination in some way. Only if neither of these options is suitable, contact a specialist disposal company to arrange disposal, but we recommend that it be neutralized in a controlled manner before disposal.

Product/packaging disposal: Dispose of as unused product.

Section 14: Transport Information

UN number: 1479

UN proper shipping name: OXIDIZING SOLID, N.O.S.

Transport hazard class: 5.1

Subsidiary class: -

Packing group: III

Marine pollutant: Yes

Hazchem code: 2X

Special provisions: 223, 274

Transport in bulk according to Annex II of Marpol and the IBC Code: Not applicable.

Section 15: Regulatory Information

Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP): Not a scheduled poison.

Australian Inventory of Industrial Chemicals (AIIC): All components are listed or exempt.

New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempt.

Applicable prohibitions and notifications/licensing requirements: Not listed.

Agricultural and Veterinary Chemicals Act: Not listed.

GHS Hazardous Chemical Information List: Not listed.

Chemical Safety Assessment carried out: No.

Section 16: Other Information

Indication of changes: GHS aligned.

Relevant classification and H statements (number and full text):

H271 May cause fire or explosion; strong oxidizer.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H310 Fatal in contact with skin.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H401 Toxic to aquatic life.

Training instructions: Use as instructed.

Further information: This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

Notice to readers: Employers should use this information only as a supplement to other information gathered by them and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees.

This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.