



Section 01 - Identification

Product Identifier	Powdered Oxygen Detergent
Other Means of Identification	None
Product Use and Restrictions on Use	Powdered peroxide based detergent.
Initial Supplier Identifier	Advance Chemicals Ltd. 1500 Quebec Avenue Saskatoon, SK. Canada S7K 1V7
Prepared By	ClearTech Industries Inc. Technical Writer Phone: 1 (800) 387-7503
24-Hour Emergency Phone	Phone: 1 (306) 664 – 2522

Section 02 - Hazard Identification

GHS-Classification

Acute Toxicity-Oral Category 4

Eye Damage/Irritation Category 1

Physical Hazards

Oxidizing Solid Category 2

Danger

Hazard Statements

H272 – May intensify fire; oxidiser.

H302 – Harmful if swallowed.

H318 – Causes serious eye damage.

Pictograms



Precautionary Statements

P210 – Keep away from heat, sparks, open flames, and hot surfaces. — No smoking.

P220 – Keep/Store away from clothing, wooden floors, sunlight, moisture, and combustible materials.

P370 + P378 – In case of fire: Use extinguishing media appropriate for surrounding fire.

P264 – Wash hands thoroughly after handling.

P280 – Wear eye protection and face protection.

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

P301 + P312 – IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P330 – Rinse mouth.

P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 – Immediately call a POISON CENTER or doctor/physician.

P501 – Dispose of contents/container in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.

Section 03 - Composition / Information on Ingredients

Chemical Name	CAS Number	Weight %	Unique Identifiers
Sodium Carbonate	497-19-8	65-80%	
Sodium Percarbonate	15630-89-4	20-35%	

Section 04 - First Aid Measures

Inhalation	If symptoms are experienced, remove victim to fresh air. Give artificial respiration only if breathing has stopped. If breathing is difficult, give oxygen. Seek medical attention.
Skin Contact / Absorption	Remove contaminated clothing. Wash affected area with soap and water. Seek medical attention if irritation occurs or persists.
Eye Contact	Flush immediately with water for at least 30 minutes. Forcibly hold eyelids apart to ensure complete irrigation of eye tissue. If a contact lens is present, remove only if easy to do so. Seek immediate medical attention.
Ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious or convulsing person. Seek immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. If the subject is completely conscious give 2-4 glasses of water to dilute the chemical.
Additional Information	Treatment based on sound judgment of physician and individual reactions of patient. Medical conditions that may be aggravated by exposure to this product include diseases of the skin, eyes or respiratory tract.

Section 05 - Fire Fighting Measures

Suitable Extinguishing Media	Flood with water for extinguishing agent.
Unsuitable Extinguishing Media	Do not use dry chemicals or foams.
Specific Hazards Arising From the Chemical	Under fire conditions, carbon oxides and sodium oxides may form.
Special Protective Equipment and Precautions for Fire-Fighters	Wear NIOSH-approved self-contained breathing apparatus and protective clothing.
Further Information	Not Available

Section 06 - Accidental Release Measures

Personal Precautions / Protective Equipment / Emergency Procedures	Wear appropriate personal protective equipment. Ventilate area as product is a strong oxidizer. Only enter area with PPE. Stop or reduce leak if safe to do so. Flush with water to remove any residue.
Environmental Precautions	Prevent material from entering sewers.

Methods and Materials for Containment and Cleaning Up

Do not use combustible materials such as sawdust as an absorbent. Pick up solids and put in an appropriate sealed container for later disposal. Avoid dry sweeping and any dust formation. Do not use compressed air to clean surfaces. Vacuuming or wet sweeping is preferred. Do not return spilled or contaminated material to inventory.

Section 07 - Handling and Storage

Precautions for Safe Handling

Use proper equipment for lifting and transporting all containers. Use sensible industrial hygiene and housekeeping practices. Wash thoroughly after handling. Avoid all situations that could lead to harmful exposure.

Conditions for Safe Storage

Store in a cool, dry, well ventilated area, away from heat and ignition sources. Place away from incompatible materials. Store in vented containers. Do not exceed sealed containers to temperatures above 40°C. Do not store on wooden floors or wooden pallets. Protect against moisture. Damp material may decompose exothermically and may cause combustion of organic material. Oxygen release due to exothermic decomposition may support combustion. Prolonged storage may result in lumping or caking. Keep away from direct sunlight. Protect against physical damage. Store in accordance with good industrial practices.

Incompatibilities

Strong reducing agents, strong acids, organic materials, powdered metals.

Section 08 - Exposure Controls and Personal Protection

Exposure Limit(s)

Component	Regulation	Type of Listing	Value
Sodium Percarbonate	ACGIH	TLV	10 mg/m ³ (Inhalable)
Sodium Carbonate	Not Established		

Engineering Control(s)

Ventilation Requirements

Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and control of process conditions must be provided in accordance with all fire codes and regulatory requirements. Supply sufficient replacement air to make up for air removed by exhaust systems.

Other

Emergency shower and eyewash must be available and tested in accordance with regulations and be in close proximity.

Protective Equipment

Eyes/Face

Face shield and safety glasses should be worn at all times when product is handled. Contact lenses should not be worn; they may contribute to severe eye injury.

Hand Protection

Impervious gloves of chemically resistant material (rubber or PVC) should be worn at all times. Wash contaminated clothing and dry thoroughly before reuse.

Skin and Body Protection

Body suite, aprons, and/or coveralls of chemical resistant material should be worn at all times. Wash contaminated clothing and dry thoroughly before reuse.

Impervious boots of chemically resistant material should be worn at all times. No special footwear is required other than what is mandated at place of work.

Respiratory Protection

If exposure exceeds occupational exposure limits, use an appropriate NIOSH-approved respirator. Do not use chemical cartridge respirators with oxidisable sorbents (charcoal). A NIOSH/MSHA approved dust mask for concentrations of nuisance dust up to 50mg/m³. An air-supplied respirator if concentrations are higher or unknown.

Thermal Hazards

Not Available

Section 09 - Physical and Chemical Properties

Appearance

Physical State	Solid, granular
Colour	White
Odour	Odourless
Odour Threshold	Not Applicable

Property

pH	10-11
Melting Point/Freezing Point	Not Available
Initial Boiling Point and Boiling Range	Not Available
Flash Point	Not Applicable
Evaporation Rate	Not Available
Flammability	Non-Flammable
Upper Flammable Limit	Not Applicable
Lower Flammable Limit	Not Applicable
Vapour Pressure (mm Hg, 20°C)	Not Applicable
Vapour Density (Air=1)	Not Available
Relative Density	Not Available
Solubility(ies)	Not Available
Partition Coefficient: n-octanol/water	Not Applicable
Auto-ignition Temperature	Not Applicable
Decomposition Temperature	Not Available
Viscosity	Not Applicable
Explosive Properties	Not Available
Specific Gravity (Water=1)	1.1-1.4
% Volatiles by Volume	0
Formula	Mixture
Molecular Weight	Not Available

Section 10 - Stability and Reactivity

Reactivity	Not Available
Stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	Decomposes slowly: oxidation resulting in increased fire or explosion risk. This reaction is accelerated on exposure to water (moisture) and temperature rise.
Conditions to Avoid	Heat, open flames, all ignition sources, moisture [except for emergencies and clean up as described in the SDS], conditions that generate dust.
Incompatible Materials	Strong reducing agents, strong acids, organic materials, powdered metals.
Hazardous Decomposition Products	Under fire conditions, carbon oxide and sodium oxides may form. When heated to decomposition, sodium percarbonate emits acrid smoke and irritating vapours.

Section 11 - Toxicological Information

Acute Toxicity

Component	Oral LD ₅₀	Dermal LD ₅₀	Inhalation LC ₅₀
Powdered Oxygen Detergent	1,962 mg/kg	2,000 mg/kg	0.52 mg/L

Chronic Toxicity – Carcinogenicity

Component	IARC
Powdered Oxygen Detergent	None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen

Skin Corrosion/Irritation	Mild skin irritant.
Ingestion	Harmful if swallowed. Severe irritation of the mouth, esophagus and stomach. Causes bloating of stomach, belching, nausea, and vomiting.
Inhalation	Short-term exposure: Nose and throat irritation, cough. Repeated or prolonged exposure: risk of throat, nose bleeds, chronic bronchitis.
Serious Eye Damage/Irritation	Causes severe eye irritation. May cause eye burns. Risk of serious or permanent eye lesions.
Respiratory or Skin Sensitization	Sensitivity reactions may occur from prolonged and repeated exposure.
Germ Cell Mutagenicity	Not classified for mutagenic or genotoxic toxicity.
Reproductive Toxicity	Not classified for reprotoxic or developmental toxicity.
STOT-Single Exposure	Not Available
STOT-Repeated Exposure	May cause central nervous system (CNS) depression. CNS depression is characterized by headache, dizziness, drowsiness, nausea, vomiting and incoordination. Severe overexposure may lead to coma and possible death due to respiratory failure. Excessive contact may produce "soda ulcers" on hands and perforation of the nasal septum.
Aspiration Hazard	Prolonged and repeated exposure may cause coughing and sneezing, nosebleeds, sore throat and chronic bronchitis.
Synergistic Materials	Not Available.

Section 12 – Ecological Information

Ecotoxicity

Component	Toxicity to Algae	Toxicity to Fish	Toxicity to Daphnia and Other Aquatic Invertebrates
Sodium Carbonate	EC ₅₀ (Diatom, 96hr): 242 mg/L	LC ₅₀ (Lepomis macrochirus, 24hr): 167 mg/L	LC ₅₀ (Daphnia magna, 24hr): 196 mg/L
Sodium Percarbonate	EC ₅₀ (Algae, 240hr): 100-200mg/L	LC ₅₀ (Pimephales promelas, 96hr): 70.7mg/L	EC ₅₀ (Daphnia magna, 48hr): 2mg/L

Biodegradability

When sodium percarbonate is dissolved in water, it dissociates to sodium carbonate and hydrogen peroxide. Sodium and carbonate cannot be biodegraded and standard ready tests are not applicable to inorganic substances like hydrogen peroxide.

Bioaccumulation

Sodium carbonate presents low potential for bioaccumulation.

Mobility

Not Available

Other Adverse Effects

Not Available

Section 13 – Disposal Considerations

Waste From Residues/Unused Products

Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.

Contaminated Packaging

Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.

Section 14 – Transport Information

UN Number	UN1479	
UN Proper Shipping Name	OXIDIZING SOLID, N.O.S. (Sodium percarbonate)	
Transport Hazard Class(es)	5.1	
Packaging Group	III	
Environmental Hazards	Not listed as a marine pollutant under Canadian TDG Regulations, schedule III.	
Special Precautions	Combination packagings: not more than 1 kg per inner packaging for solids. A package shall not weigh more than 30 kg (gross mass).	
Transport in Bulk	Not Available	
Additional Information	<u>Packing Group</u>	<u>Limited Quantity Index</u>
	II	1 Kg
	III	5 Kg

TDG

Other Secure containers (full and/or empty) with suitable hold down devices during shipment and ensure all caps, valves, or closures are secured in the closed position.

TDG PRODUCT CLASSIFICATION: This product has been classified on the preparation date specified at section 14 of this MSDS / SDS, for transportation in accordance with the requirements of part 2 of the Transportation of Dangerous Goods Regulations. If applicable, testing and/or published test data regarding the classification of this product are listed in the references at section 16 of this MSDS / SDS.

Section 15 – Regulatory Information

NOTE: THE PRODUCT LISTED ON THIS SDS HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN CONTROLLED PRODUCTS REGULATIONS. THIS SDS CONTAINS ALL INFORMATION REQUIRED BY THOSE REGULATIONS.

Section 16 – Other Information

Preparation Date October 24, 2016

Revision Date 2017 May 12

Note: The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations.

Attention: Receiver of the chemical goods / SDS coordinator

As part of our commitment to the Canadian Association of Chemical Distributors (CACD) Responsible Distribution® initiative, ClearTech Industries Inc. and its associated companies require, as a condition of sale, that you forward the attached Safety Data Sheet(s) to all affected employees, customers, and end-users. ClearTech will send any available supplementary handling, health, and safety information to you at your request.

If you have any questions or concerns please call our customer service center.

References:

- 1) CHEMINFO
- 2) eChemPortal
- 3) TOXNET
- 4) Transportation of Dangerous Goods Canada
- 5) HSDB
- 6) ECHA

Advance Chemicals Ltd. - Locations

Corporate Head Office: 1500 Quebec Avenue, Saskatoon, SK, S7K 1V7

Phone: 1(306) 664 – 2522

Fax: 1(888) 281-8109

www.cleartech.ca

24 Hour Emergency Number - All Locations – 1(306) 664-2522