

# SAFETY DATA SHEET

This SDS adheres to the standards and regulatory requirements of Canada and may not meet the regulatory requirements in other countries.

1. Identification			
Product identifier	ERCOPure™ BCD-31		
Other means of identification	Sodium Chlorite Solution, ERCOPURE		
Recommended use	Generation of chlorine dioxide for use as an oxidant. Bleaching of textiles and other fibers.		
<b>Recommended restrictions</b>	None known.		
Manufacturer/Importer/Supplier/Distributor information			
Manufacturer			
Company name	International Dioxcide, Inc. an ERCO Worldwide Company		
Address	ERCO Worldwide		
	5050 Satellite Drive		
	Mississauga ON, L4W 0G1		
	Canada		
Telephone	(416) 239-7111 (M- F: 8:00 am – 5:00pm EST)		
Website	https://idiclo2.com		
E-mail	idiclo2@ercoworldwide.com		
Emergency phone number	Canada & U.S.A.: (800) 424 9300 (CHEMTREC) International: (703) 527 3887		
Supplier	Refer to Manufacturer		

## 2. Hazard(s) Identification

Physical hazards	None	
Health hazards	Acute toxicity, oral	Category 4
	Acute toxicity, inhalation	Category 3
	Serious eye damage	Category 1
	Specific target organ toxicity, repeated exposure (blood, kidneys, liver, spleen)	Category 2
	Skin corrosive	Category 1B
Environmental hazards	Not currently regulated by the Canadian Hazardous Products Regulation (WHMIS 2015), refer to Section 12 for additional information.	
Label elements		>
Signal word	Danger	



Hazard statement	Harmful if swallowed.
	Toxic if inhaled.
	Causes serious eye damage.
	May cause damage to organs through prolonged or repeated
	exposure (blood, kidneys, liver, spleen).
	Causes severe skin burns and eye damage.
Precautionary statement	
Prevention	Wear protective gloves, protective clothing, eye protection, face protection. Do not eat, drink or smoke when using this product. Do not breathe dust, fume, gas, mists, vapours, spray. Wash hands and face thoroughly after handling. Use only outdoors or in a well- ventilated area.
Response	<ul> <li>IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth. Do not induce vomiting.</li> <li>IF ON SKIN (or hair): Take off immediately all contaminated clothing Rinse skin with water or shower.</li> <li>Wash contaminated clothing before reuse.</li> <li>If skin irritation occurs: Get medical attention.</li> <li>IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.</li> <li>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.</li> <li>IF exposed or concerned: Call a POISON CENTER or doctor.</li> </ul>
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal	Dispose of contents and containers in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	Contact with some metals will generate flammable hydrogen gas. Chronic skin contact with low concentrations may cause dermatitis. Contact with acids or reducing agents will generate toxic chlorine dioxide gas. If Sodium Chlorite dries on some types of fire-retardant clothing it is known to cause an exothermic reaction. The reaction has been known to cause burns to skin. Nomex appears to be the only material not to experience this reaction.
Supplemental information	Not applicable.

# **3.** Composition/Information on Ingredients

Chemical name	Common name and synonyms	CAS number	Conc. % By Weight
Sodium Chlorite	None	7758-19-2	31 w/w%



Dihydrogen Oxide

Water

7732-18-5 Balance

Chemical name of impurities, stabilizing solvents and/or additives: None

4.	First-Aid Measures	Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, trained personnel should give oxygen. If breathing stops, provide artificial respiration. Call a POISON CENTER or doctor/physician.
	Skin Contact	Take off immediately all contaminated clothing. Immediately flush skin with running water for at least 20 minutes. Wash contaminated clothing promptly. Leather and shoes that have been contaminated with the solution may need to be destroyed. Immediately call a POISON CENTER or doctor/physician.
	Eye Contact	Immediately flush eyes with plenty of water for at least 20 minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Take care not to rinse contaminated water into the unaffected eye or onto the face. Immediately call a POISON CENTER or doctor/physician.
	Ingestion	Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to a victim who is unconscious or is having convulsions. Call a POISON CENTER or doctor/physician if you feel unwell.
	Most important symptoms/effects, acute and delayed	Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May be harmful if swallowed. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. Can cause severe skin burns. Symptoms may include redness, edema, drying, defatting and cracking of the skin. Prolonged exposure may cause chronic effects. Material is irritating to mucus membranes and upper respiratory tract. Symptoms may include bloody nose and sneezing. High concentrations may cause lung damage.
	Indication of immediate medical attention and special treatment needed	Immediate medical attention is required. Causes chemical burns. May be harmful if swallowed. Symptoms may be delayed.
	General information	Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.



#### 5. Fire-Fighting Measures

- Suitable extinguishing<br/>mediaWater spray, fog (flooding amounts). Water only; no dry chemical, CO2 or<br/>Halon. This product itself does not burn but combustibles wetted with this<br/>solution and subsequently dried are easily ignited and burn vigorously.
- Unsuitable<br/>extinguishing mediaDO NOT use dry chemical fire extinguishing agents containing ammonium<br/>compounds (such as some A:B:C agents), since an explosive compound can<br/>be formed. DO NOT use carbon dioxide, dry chemical powder or other<br/>extinguishing agents that smother flames, since they are not effective in<br/>extinguishing fires involving oxidizers. Use chemical extinguishing agents<br/>with caution.
- Specific hazards arisingMay intensify fire; oxidizer when dry. Drying of this product on clothing orfrom the chemicalcombustible materials may cause fire.

Special protectiveFirefighters must use standard protective equipment including flameequipment andretardant coat, helmet with face shield, gloves, rubber boots, and inprecautions forenclosed spaces, SCBA.

- firefighters If Sodium Chlorite dries on some types of fire-retardant clothing it is known to cause an exothermic reaction. The reaction has been known to cause burns to skin. Nomex appears to be the only material not to experience this reaction.
- Firefighting Evacuate area. Remove all sources of ignition. In case of fire: Stop leak if safe to do so. Move combustibles out of path of advancing pool if you can do so without risk. Move containers from fire area if you can do so without risk. Fight fire from upwind to avoid exposure to combustion products. In case of fire and/or explosion do not breathe fumes.
- **Specific methods** Use standard firefighting procedures and consider the hazards of other involved materials.

**General fire hazards** May intensify fire; oxidizer when dry.

Hazardous combustion<br/>productsDisodium oxide. Hydrogen chloride. Oxygen. Contact with acids, organic<br/>materials, reducing agents or chlorine donors will produce chlorine dioxide<br/>gas and heat. Ventilate area with large amounts of air to keep the chlorine<br/>dioxide concentration low.

#### 6. Accidental Release Measures

Personal precautions,<br/>protective equipment<br/>and emergency<br/>proceduresImmediately evacuate personnel to safe areas. Keep unnecessary<br/>personnel away. Keep people away from and upwind of spill/leak. Wear<br/>appropriate protective equipment and clothing during clean-up. Do not<br/>touch damaged containers or spilled material unless wearing appropriate<br/>protective clothing. Local authorities should be advised if significant<br/>spillages cannot be contained. For personal protection, see section 8 of the<br/>SDS. DO NOT USE RAGS, SAWDUST OR OTHER COMBUSTIBLE ABSORBENTS.



Methods and materials for containment and cleaning up	Ventilate the contaminated area. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop the flow of material, if this is without risk. Keep combustibles (wood, paper, oil, etc.) away from spilled material. Absorb in dry sand or earth and place into containers. Use water spray to reduce vapors or divert vapor cloud drift. Do not let the product dry.
	<ul> <li>Small Spills: Absorb spill with dry sand, earth or other inert material. Neutralize the spilled material before disposal.</li> <li>Large Spills: Stop the leak, if this is without risk. Dike the spilled material, where this is possible. Absorb in dry sand or earth and place into containers. If not recoverable, dilute with water or flush to holding area and neutralize. Use water spray to reduce vapors or divert vapor cloud drift. Prevent entry into waterways, sewer, basements or confined areas. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.</li> </ul>
Environmental precautions	Avoid release to the environment. Avoid discharge into drains, water courses or onto the ground. Contact local authorities in case of spillage to drain/aquatic environment.

#### 7. Handling and Storage

Precautions for safeUse only in a well-ventilated area. Wear chemically resistant protective<br/>equipment during handling. Do not breathe mist or vapor. Do not taste or<br/>swallow. Keep away from heat. Do not handle, store or open near an open<br/>flame, sources of heat or sources of ignition. Protect material from direct<br/>sunlight. Do not let the product dry. When using, do not eat, drink or smoke.<br/>Keep away from clothing and other combustible materials. Observe good<br/>industrial hygiene practices. Avoid release to the environment.

Conditions for safe<br/>storage, including any<br/>incompatibilitiesStore in a cool, dry place out of direct sunlight. Store in a well-ventilated<br/>place. Storage area should be clearly identified, clear of obstruction and<br/>accessible only to trained and authorized personnel. Store away from<br/>incompatible materials (see Section 10 of the SDS). Store in original tightly<br/>closed container. Do not store near combustible materials. Do not handle<br/>or store near an open flame, heat or other sources of ignition.

#### 8. Exposure Controls/ Personal Protection

Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below



recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Use separate, corrosion-resistant ventilation system to capture mist or fume. Do not use wood or other combustibles to construct vent system. Prevent entry into bearings or gear boxes, which could cause an explosion. Provide eyewash station.

#### Individual protection measures, such as personal protective equipment:

Eye/face protection	Wear safety glasses with side shields (or goggles) and a face shield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.
Skin protection	
Hand protection	Gloves impervious to the material are recommended, such as butyl rubber or neoprene gloves. Advice should be sought from glove suppliers.
Other	Where contact is likely, wear chemical-resistant gloves, a chemical suit, rubber boots, and chemical safety goggles plus a face shield. Wear chemical protective equipment that is specifically recommended by the manufacturer. It may provide little or no thermal protection. Eye wash facilities and emergency shower must be available when handling this product. If Sodium Chlorite dries on some types of fire-retardant clothing it is known to cause an exothermic reaction. The reaction has been known to cause burns to skin. Nomex appears to be the only material not to experience this reaction.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. A NIOSH/MSHA approved air-purifying respirator with the appropriate chemical cartridges or a positive-pressure, air- supplied respirator may be used to reduce exposure. Use a positive- pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134). Seek advice from respiratory protection specialists.

- Thermal HazardsIf Sodium Chlorite dries on some types of fire-retardant clothing it is<br/>known to cause an exothermic reaction. The reaction has been<br/>known to cause burns to skin. Nomex appears to be the only<br/>material not to experience this reaction.
- **General hygiene considerations** Keep from contact with clothing and other combustible materials. Remove and wash contaminated clothing promptly. Upon



completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and Chemical Properties

Appearance	Aqueous solution.
Physical state	Liquid.
Form	Liquid.
Colour	Clear water-white to slightly yellow liquid
Odor	Odorless to slight Chlorine-like or faint bleach-like
Odor threshold	Not available
Molecular formula	NaClO <sub>2</sub>
Molecular weight	90.45
рН	>12
Melting point/Freezing point	3°C (37.4°F)
Initial boiling point and boiling range	106 °C (1013 hPa)
Flash point	Closed cup: >100°C (>212°F)
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Upper/lower flammability or explosive li	mits
Flammability limit – lower (%)	Not applicable
Flammability limit – upper (%)	Not applicable
Explosive limit – lower (%)	Not available
Explosive limit – upper (%)	Not available
Vapor pressure	19.87 hPa (20°C)
Vapor density	Not available
Relative density	Not available
Solubility (ies)	
Solubility (water)	Miscible in water
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Dynamic: 3.26 mPa·s
Other information	
Density	1.26 g/cm <sup>3</sup>
Flammability	Not applicable
Specific gravity	Not available
Surface tension	Not available

#### **10.Stability and Reactivity**

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. Reacts on mixing with acids to give toxic chlorine dioxide and chlorine gases. Mixtures with combustibles, if allowed to dry



	explode.
Chemical stability	Material is stable under normal conditions. Will decompose if heated. Absorption of atmospheric carbon dioxide may lower the pH of the solution, which will cause it to slowly decompose.
Possibility of hazardous reactions	Contact with acids, organic materials, reducing agents and oxidizing agents will release toxic gases of chlorine and/or chlorine dioxide.
Conditions to Avoid	Keep away from heat, sparks and open flame. Keep away from direct sunlight and contact with incompatible materials. This product may react with reducing agents.
Incompatible materials	Combustible material. Acids. Organic compounds. Oxidizing agents. Metals. Sulfur and Sulfur-containing materials. Ethylene glycol. Ammonia. Amines. Phosphorus. Reducing agents.
Hazardous decomposition products	In the event of fire, the following can be released: Chlorine, Chlorine Dioxide.

out, are easily ignited by heat or friction and burn vigorously or may

## **11.Toxicological Information**

# Information on likely routes of exposure<br/>InhalationInhalationToxic if inhaled.Skin contactCauses severe skin burns.Eye contactCauses serious eye damage/irritation.

Ingestion Harmful if swallowed.

#### Delayed and immediate effects and chronic effects from short-term and long-term exposure

Effects of short-term (acute)Causes serious eye damage, may cause severe irritation and possibly<br/>burns. Symptoms may include stinging, tearing, redness, swelling,<br/>and blurred vision.

Causes severe skin burns. Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Acute ingestion of large quantities may also cause anemia due to the oxidizing effects of the chemical.

Material is irritating to mucous membranes and upper respiratory tract. Symptoms may include coughing, bloody nose and sneezing. High concentrations can cause lung damage.



May be harmful if swallowed. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects.

Effects of long-term (chronic)Prolonged exposure may cause chronic effects. Dermatitis is likely<br/>to occur from repeated or prolonged contact. Other symptoms may<br/>include methemoglobinemia (causes bluish discolouration of the<br/>skin and mucous membranes). Will irritate and may cause corrosion<br/>of the gastrointestinal tract.

Information on toxicological effects Acute toxicity		
Product	Species	Test Results
Sodium Chlorite Solution 40%	•	
Acute		
Inhalation		
LC <sub>50</sub>	Rat	0.58 mg/L (Calculated ATE at 40%)
Oral		
LD <sub>50</sub>	Rat	413 mg/kg (Calculated ATE at 40%)
Product	Test	Test Results
Sodium Chlorite Solution 37%		
Dermal	OECD Guideline 435,	17 min (Average breakthrough time
	"In Vitro Membrane	calculated at 37%)
	Barrier Test Method	
	for Skin Corrosion"	
Components	Species	Test Results
Sodium Chlorite (CAS 7758-19-2)		
Acute		
Inhalation		
LC <sub>50</sub>	Rat	0.23 mg/L (Mist)
Oral		
LD <sub>50</sub>	Rat	165 mg/kg

\* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation

Can cause severe skin burns.



Serious e irritation	ye damage/eye	Can cause serious eye damage/irritation.
Respirato	ory or skin sensitization Respiratory sensitization	Not expected to be a respiratory sensitizer.
	Skin sensitizer	Not sensitizing.
Germ cel	l mutagenicity	Not expected to be mutagenic.
Carcinogenicity This product is NTP, or OSHA.		This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
	IARC Monographs. Overall Evaluation of Carcinogenicity	Sodium Chlorite (CAS 7758-19-2) Not classifiable as to carcinogenicity to humans.
	OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	Not listed.
Reproduc	ctive toxicity	Not classified as a reproductive toxin.
Specific t single exp	arget organ toxicity - oosure	Not classified as a specific target organ toxicity -single exposure.
•	arget organ toxicity - exposure	Specific Target Organ Toxicity (STOT), Repeated Exposure: blood, kidneys, liver, spleen.
Aspiratio	n toxicity	Not expected to be an aspiration hazard.
Chronic e	ffects	Chronic skin contact with low concentrations may cause dermatitis. Prolonged or repeated overexposure may cause blood, liver, spleen and kidney effects.

## **12.** Ecological Information

EcotoxicityToxic to aquatic life. In water and soil, sodium chlorite will eventually<br/>degrade to sodium chloride.

Components		Species	Test Results
Sodium Chlorite (CAS	57758-19-	2)	
Aquatic			
Acute			
Algae	EC <sub>50</sub>	Green algae (Selenastrum capricornutum)	1.2 mg/l



	Crustacea	EC <sub>50</sub>	Water flea (Daphnia)	0.025 mg/l
	Fish	LC <sub>50</sub>	Sheepshead minnow (Cyprinodon variegatus)	110 mg/l
	Chronic Algae	EC <sub>50</sub>	Green algae (Selenastrum capricornutum)	1 mg/l
Persistence andBiodegradation is not applicable to indegradability		degradation is not applicable to inorganic sub	stances.	
Bio accum potential	accumulative The product itself has not been tested. Intial			
Mobility i	n soil	In soil, will degrade to sodium chloride but may form chlorine dioxi contact with acidic soils. Chlorate is an intermediate product of decomposition; it will slowly degrade to chloride.		
Other adv	verse effects	pho	other adverse environmental effects ( otochemical ozone creation potential, endo rming potential) are expected from this compo	crine disruption, global

# **13.** Disposal Considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.



# 14. Transport Information

Information       Number       Shipping Name       Group         TDG Classification       UN1908       CHLORITE SOLUTION       8       II       Marine pollutant Marine pollutant         Value       Solution       Value       Value       Value       Value         Value       Solution       Solution       Remarks Product classified pe Transportation of Dangerous Goods       Regulations sections 2.40-2.42 (class 8) Product classified pe Transportation of Dangerous Goods	on
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Regulations sections	
2.7, 2.43-2.45 (Class	
9).	
IMDG Class UN1908 CHLORITE 8 II Marine pollutant	
SOLUTION Marine pollutant	
	~
Emergency Schedule (EmS)	2
F-A, S-B	



IATA-DGR	UN1908	Chlorite	8	II		Marine pollutant
Class		Solution				Marine pollutant
					12	Passenger Aircraft 851: 1 L
						Cargo Aircraft 855: 30 L

### **15. Regulatory Information**

Country(s) or region	Inventory name	On inventory (yes/no) *
Australia	Australian Inventory of Chemical	Yes
	Substances (AICS)	
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List	No
	(NDSL)	
China	Inventory of Existing Chemical	Yes
	Substances in China (IECSC)	
Europe	European Inventory of Existing	Yes
	Commercial Chemical Substances	
	(EINECS)	
Europe	European List of Notified Chemical	No
	Substances (ELINCS)	
Japan	Inventory of Existing and New	Yes
	Chemical Substances (ENCS)	
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals	Yes
	and Chemical Substances (PICCS)	
United States & Puerto Rico	Toxic Substances Control Act (TSCA)	Yes
	Inventory	

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### **16.Other Information**

Issue date	3/31/2022
Revision #	9
<b>Revision Indicator</b>	Clarified precautionary statements, added FR clothing precaution and updated address



List of abbreviations	<ul> <li>ACGIH: American Conference of Governmental Industrial Hygienists</li> <li>CAS: Chemical Abstract Services</li> <li>CFR: Code of Federal Regulations</li> <li>DSL: Domestic Substance List</li> <li>EINECS: European Inventory of Existing Commercial chemical Substances</li> <li>EPA: Environmental Protection Agency</li> <li>HSDB<sup>®</sup> - Hazardous Substances Data Bank</li> <li>IARC: International Agency for Research on Cancer</li> <li>IATA: International Air Transport Association</li> <li>IBC: Intermediate Bulk Container</li> <li>IMDG: International Maritime Dangerous Goods LC: Lethal Concentration</li> <li>LD: Lethal Dose</li> <li>NIOSH: National Institute of Occupational Safety and Health</li> <li>NTP: National Toxicology Program</li> <li>OECD: Organization for Economic Cooperation and Development</li> <li>OSHA: Occupational Safety and Health Administration PPE: Personal Protective Equipment</li> </ul>
References	Canadian Centre for Occupational Health and Safety, CCInfoWeb Databases, 2014 (Chempendium, RTECs, HSDB, INCHEM). European Chemicals Agency, Classification Legislation, 2014. Material Safety Data Sheet from manufacturer. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2014.

#### Disclaimer

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