

# SAFETY DATA SHEET

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

## 1. Identification

Product identifier	Sodium Chlorate Solution 20-50%	
Other means of identification	Sodium Chlorate Aqueous Solution; Chlorate of Soda; ERCOCIDE S; ERCOCIDE SP; R8 Solution; R2 Solution, NaClO <sub>3</sub>	
Chemical Family	Inorganic compound	
Recommended use	Oxidizing agent, pulp bleaching, defoliant and herbicide.	
Recommended restrictions	None known	
Manufacturer/Importer/Supplier/Distributor information		
Manufacturer		
Company name	ERCO Worldwide	
Address	5700 Hunt Road	
	Valdosta Ga 31606	
	USA	
Telephone	(229)-293-1005	
Website	http://www.ercoworldwide.com	
E-mail	productinfo@ercoworldwide.com	
Emergency phone number	Canada & USA: 1-800-424-9300 (CHEMTREC)	
Supplier	Refer to Manufacturer	

## 2. Hazard(s) Identification

Physical hazards	Oxidizing liquids	Category 2
Health hazards	Acute toxicity, oral	Category 4
Environmental hazards	Not currently regulated by OSHA, refer information.	to Section 12 for additional
OSHA defined hazards	This mixture does not meet the classific HazCom 2012.	ation criteria according to OSHA
Label elements		
Signal word	Danger	
Hazard statement	May intensify fire; oxidizer Harmful if swallowed	



Precautionary statement Prevention	Keep away from heat. Keep away from clothing and other combustible materials. Take any precaution to avoid mixing with combustibles. Wear protective gloves, eye protection, face protection. Wash hands and face thoroughly after handling. Do not eat, drink or smoke when using this product.
Response	IF SWALLOWED: Call a POISON CENTER/physician if you feel unwell. Rinse mouth.
	In case of fire Use water to extinguish.
Storage	Does not apply.
Disposal	Dispose of contents and container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	No OSHA defined hazard classes. Other hazards which do not result in classification: May cause mild skin and eye irritation.
Supplemental information	Not applicable.

### 3. Composition/Information on Ingredients

Chemical name	Common name and synonyms	CAS number	Conc. % By Weight
Sodium Chlorate	Chlorate of Soda; ERCOCIDE C	7775-09-9	20-50 w/w%
Dihydrogen oxide	Water	7732-18-5	Balance

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

#### 4. First-Aid Measures

- Inhalation Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, trained personnel should give oxygen. Call a POISON CENTER or doctor/physician if you feel unwell.
- Skin ContactTake off immediately all contaminated clothing. Rinse skin with<br/>water/shower. Wash contaminated clothing before reuse. Call a POISON<br/>CENTER or doctor/physician if you feel unwell.
- Eye ContactImmediately flush eyes with plenty of water for at least 20 minutes. Remove<br/>contact lenses, if present and easy to do. Continue rinsing. If eye irritation<br/>persists: Get medical advice/attention.



Ingestion	Rinse mouth. Do not induce vomiting. Never give anything by mouth to a victim who is unconscious or is having convulsions. If the patient is conscious, give one or two glasses of water to dilute stomach contents. Call a POISON CENTER or doctor/physician if you feel unwell.
Most important symptoms/effects, acute and delayed	May cause mild eye irritation. Symptoms may include redness and itching. May cause irritation to the nose, throat and upper respiratory tract. Symptoms may include coughing, choking and wheezing. May be harmful or fatal if swallowed. Symptoms may include cyanosis (bluish discoloration of the skin), nervous system damage, lung inflammation and pulmonary edema (fluid accumulation). Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. Prolonged or repeated exposure may cause blood system effects. Prolonged or repeated overexposure may cause kidney effects.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically.
General information	In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
Fire-Fighting Measu	res
Suitable extinguishing	Water spray, fog (flooding amounts).

## 5.

Suitable extinguishing media	Water spray, fog (flooding amounts).
Unsuitable extinguishing media	DO NOT use dry chemical fire extinguishing agents containing ammonium compounds (such as some A:B:C agents), since an explosive compound can be formed. DO NOT use carbon dioxide, dry chemical powder or other extinguishing agents that smother flames, since they are not effective in extinguishing fires involving oxidizers.
Specific hazards arising from the chemical	Strong oxidizer - contact with other material may cause fire. May cause fire or explosion; strong oxidizer.
Special protective equipment and precautions for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Avoid use of leather products.
Firefighting equipment/instructions	In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. In the event of fire, cool tanks with water spray. Move containers from fire area if you can do so without risk. Containers should be cooled with water



to prevent vapor pressure build up. Do not allow run-off from firefighting to enter drains or water courses. Dike for water control.

**Specific methods** Cool containers exposed to flames with water until well after the fire is out.

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

Hazardous combustionPure sodium chlorate decomposes explosively under intense fire conditions.productsIt initially decomposes to sodium perchlorate and begins to liberate oxygen<br/>at about 265°C. Besides oxygen, other compounds formed in a fire include<br/>chlorine, hydrogen chloride and sodium oxide.

#### 6. Accidental Release Measures

Personal precautions,<br/>protective equipmentEliminate all ignition sources (no smoking, flares, sparks, or flames in<br/>immediate area). Immediately evacuate personnel to safe areas. Ensure<br/>clean-up is conducted by trained personnel only. Wear appropriate<br/>protective equipment and clothing during clean-up. Ventilate the<br/>contaminated area. Do not breathe mist or vapor. For personal protection,<br/>see section 8 of the SDS.

- Methods and materials for containment and cleaning up Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Ventilate the contaminated area. Wear appropriate protective equipment and clothing during clean-up. Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do it without risk. Dike far ahead of spill for later disposal. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.
- EnvironmentalAvoid release to the environment. Avoid discharge into drains, waterprecautionscourses or onto the ground.

#### 7. Handling and Storage

Precautions for safe Do not handle or store near an open flame, heat or other sources of ignition. No smoking in the area. Avoid contamination with organic materials. Avoid breathing mist or vapor. Avoid contact with eyes, skin and clothing. Keep away from acids and other incompatibles. Keep containers closed when not in use. Label containers appropriately. Wash hands after handling and before eating. Wear protective gloves and eye/face protection.

Conditions for safeStorage area should be clearly identified, clear of obstruction and accessiblestorage, including anyonly to trained and authorized personnel. Storage areas should not be<br/>constructed of wood or other organic materials. Do not store wood or other



organic materials in areas that could come in contact with this material. Keep away from combustible or readily oxidizable materials and acids.

Store in a closed container away from incompatible materials (see section 10 of the SDS). Keep quantity stored as small as possible. Post "NO SMOKING" signs in area. Stored containers should be periodically checked for general condition and leakage. Protect against physical damage. Keep empty containers in separate storage area. Empty containers may contain hazardous residues. Keep closed. Have appropriate fire extinguishers and spill clean-up equipment in storage area.

### 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. In case of insufficient ventilation, wear suitable respiratory equipment. Do not use combustible material of construction where sodium chlorate will be used or stored.

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

Eye/face protection	Wear safety glasses with side shields (or goggles). Eye wash fountain and emergency showers are recommended.
Skin protection	
Hand protection	Avoid skin contact. Use nitrile, PVC or neoprene gloves. Do not use gloves made of leather, cotton or other organic absorbing materials. If gloves become contaminated they will become a significant fire hazard.
Other	Wear suitable protective clothing. Wear flame resistant (FR) clothing. Change clothing at the end of each work shift or when it may be contaminated. Keep contaminated clothing wet between taking it off and washing it. For exposures with a high potential of contact, wear PVC or rubber rain suit, hard hat, rubber or plastic gloves, rubber boots, and safety glasses or goggles. Do not wear leather boots or gloves.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. Use a NIOSH/MSHA approved respirator if there is a risk



of exposure to dust/fume/mists at levels exceeding the exposure limits. Seek advice from respiratory protection specialists.

**General hygiene considerations** When using, do not eat, drink or 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	Clear to pale yellow mobile liquid
Physical state	Liquid
Form	Liquid
Colour	Clear to light yellow
Odor	None
Odor threshold	Not available
рН	7-9
Melting point/ Freezing point	17.6 °F (-8 °C) (20% solution)
	-0.4 °F (-18 °C) (40% solution)
Initial boiling point and boiling range	215.6 - 226.4 °F (102 - 108 °C)
Flash point	Not applicable
Evaporation rate	Not available
Flammability (solid, gas)	Not applicable
Upper/lower flammability or explosive I	imits
Flammability limit – lower (%)	Not applicable
Flammability limit – upper (%)	Not applicable
Explosive limit – lower (%)	Not available
Explosive limit – upper (%)	Not available
Vapor pressure	Not available
Vapor density	Not available
Relative density	Not available
Solubility (ies)	
Solubility (water)	Soluble
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	Not applicable
Decomposition temperature	> 500 °F (> 265 °C)
Viscosity	Not available
Other information	
Density	1.15 - 1.45 g/cm <sup>3</sup>
Explosive properties	Oxidizer, may have explosive properties
Molecular formula	Cl-Na-O₃
Molecular weight	106.45 g/mol
Oxidizing properties	Strong oxidizer - contact with other material may cause fire
Percent volatile	Not available
Specific gravity	1.15 – 1.45



## **10.Stability and Reactivity**

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport. Can form shock-, heat- or friction-sensitive mixtures with finely divided metals, metal salts, ammonium salts, non-metals, strong reducing agents and sulfides. Low pH (acidic) solutions can decompose to form corrosive and dangerously reactive chlorine dioxide. Decomposes above 265°C releasing oxygen.
Chemical stability	Stable at normal temperatures and pressure. At low pH, solutions decompose forming corrosive and dangerously reactive chlorine dioxide. In intense fire situations there have been several cases of violent explosions attributed to sodium chlorate by itself.
Possibility of hazardous reactions	Hazardous polymerization does not occur
Conditions to Avoid	Heat, sparks, friction, shock, impact, open flames, contact with combustible materials and acidic pH.
Incompatible materials	Combustible material. Organic compounds. Organic lubricants. Strong acids. Ammonium salts. Reducing agents. Powdered metals.
Hazardous decomposition products	Pure sodium chlorate decomposes explosively under intense fire conditions. It initially decomposes to sodium perchlorate and begins to liberate oxygen at about 265°C. Besides oxygen, other compounds formed in a fire include chlorine, hydrogen chloride and sodium oxide.

### **11.Toxicological Information**

#### Information on likely routes of exposure

Inhalation	May cause irritation to the respiratory system.
Skin contact	Causes mild skin irritation.
Eye contact	May cause mild eye irritation.
Ingestion	Harmful if swallowed.

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

Effects of short-term (acute) exposure	Symptoms may include cyanosis (bluish discoloration of the skin), nervous system damage, lung inflammation and pulmonary edema (fluid accumulation). Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects.	
	May cause mild eye irritation. Symptoms may include redness and itching. May cause mild skin irritation. Symptoms may include redness and itching. May cause irritation to the nose, throat and upper respiratory tract. Symptoms may include coughing, choking and wheezing.	



Effects of long-term	Prolonged o	or repeated	exposure	may	cause	blood	system	effects.
(chronic) exposure	Prolonged or	repeated ov	verexposure	e may	cause k	idney e	ffects.	

#### Information on toxicological effects

See data for individual ingredient acute toxicity data.

Product	Species	Test Results
Sodium Chlorate Solution 20%-	50%	
Acute		
Other		
LD <sub>50</sub>	Rat	2400 mg/kg (Calculated ATE)
Components	Species	Test Results
Sodium Chlorate (CAS 7775-09-	9)	
Dermal		No information available
Inhalation		
LC <sub>50</sub>	Rat	> 7 mg/l (4 hour)
Oral		
LD <sub>50</sub>	Rat	1200 mg/kg
LD <sub>50</sub>	Mouse	8350 mg/kg
	Rabbit	7200 mg/kg
Skin corrosion/irritation	Direct contact with concentra	ted solutions can cause mild irritation.
Serious eye damage/eye irritation	May cause mild eye irritation. Symptoms may include redness and itching.	
Respiratory or skin sensitizatio	n	
Respiratory sensitization	Not expected to be a respiratory sensitizer.	
Skin sensitizer	Not expected to be a skin sensitizer.	
Germ cell mutagenicity	Not expected to be mutageni	с.
Carcinogenicity	This product is not considered NTP, or OSHA.	d to be a carcinogen by IARC, ACGIH,
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001- 1050)	Not listed.	
Reproductive toxicity	Not classifiable as a reproduc	tive toxin.
Specific target organ toxicity - single exposure	Hazardous by OSHA criteria. Specific Target Organ Toxicity May cause respiratory irritatio	(STOT), Single Exposure Category 3 on.



Specific target organ toxicity - repeated exposure	Not classified as a specific target organ toxicity - repeated exposure.
Aspiration toxicity	Not expected to be an aspiration hazard.
Chronic effects	Repeated and prolonged exposure of the skin can cause dermatitis and blood system effects. Repeated exposure by inhalation or ingestion may result in toxic effects, which appear gradually over weeks. Initially there may be abdominal pain, followed by internal bleeding, destruction of red blood cells, lung damage, liver damage, and kidney damage. The skin may be bluish.

## 12. Ecological Information

Ecotoxicity

Not expected to be harmful to aquatic organisms.

Compone	ents		Species	Test Results
Sodium C	hlorate (CAS	7775-09-	9)	
	Aquatic			
	Acute			
	Crustacea	EC <sub>50</sub>	Water flea ( <i>Daphnia magna</i> )	> 1000 mg/l, 48 hours
	Fish	LC <sub>50</sub>	Rainbow trout, Donaldson trout ( <i>Oncorhynchus mykiss</i> )	> 1000 mg/l, 96 hours
	Chronic			
	Algae	NOEC	Green algae (Selenastrum capricornutum)	> 500 mg/l, 72 hours
	Crustacea	EC <sub>50</sub>	Water flea ( <i>Daphnia magna</i> )	> 500 mg/l, 21 days
	Fish	NOEC	Zebra danio ( <i>Danio rerio</i> )	> 500 mg/l, 35 days
Persisten degradab		Readily biodegradable. Sodium chlorate degrades very slowly in soil under aerobic conditions. May decompose by microbial degradation more rapidly under anaerobic conditions.		
Bioaccum potential		No data available.		
Mobility	in soil	High water solubility indicates a high mobility in soil. Sodium chlorate ca be leached out of soil. Chlorate accumulates in plant cells until toxic concentrations are reached and the plant dies.		
Other adverse effects No other adverse environmental effects (e.g. ozone of photochemical ozone creation potential, endocrine disruption warming potential) are expected from this component.		ocrine 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

DOT

ΙΑΤΑ

UN number	UN2428
UN proper shipping name	Sodium chlorate, aqueous solution
Transport hazard class(es)	
Class	5.1
Subsidiary risk	-
Label(s)	5.1
Packing group	II
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	A2, IB2, T4, TP1
Packaging exceptions	152
Packaging non bulk	203
Packaging bulk	241
UN number	UN2428
UN proper shipping name	Sodium chlorate, aqueous solution
Transport hazard class(es)	
Class	5.1
Subsidiary risk	-
Packing group	II



IMDG

**Environmental hazards** No ERG Code 5L Special precautions for user Read safety instructions, SDS and emergency procedures before handling. **Other information** Passenger and cargo Allowed aircraft Cargo aircraft only Allowed **UN number** UN2428 UN proper shipping name Sodium chlorate, aqueous solution Transport hazard class(es) Class 5.1 Subsidiary risk \_ **Packing group** Ш **Environmental hazards** Marine pollutant No F-H, S-Q Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Transport in bulk according to Annex II of Not available. MARPOL 73/78 and the IBC Code

DOT **OX** 

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## **15. Regulatory Information**

15. Regulatory Informatio	n
US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
TSCA Section 12( Export Notificatio (40 CFR 707, Sub D)	on
CERCLA Hazardou Substance List (4 CFR 302.4)	
SARA 304 Emergency relea notification	Not regulated. se
OSHA Specifically Regulated Substances (29 C	FR
1910.1001-1050)	
Superfund Amendments an Reauthorization Act of 1986 (SARA)	
Hazard categorie	<ul> <li>Immediate Hazard - Yes</li> <li>Delayed Hazard - No</li> <li>Fire Hazard - Yes</li> <li>Pressure Hazard - No</li> <li>Reactivity Hazard -No</li> </ul>
SARA 302 Extrem hazardous substance	iely Not listed.
SARA 311/312	No
Hazardous chem SARA 313 (TRI reporting)	Not regulated.
Other federal regulations Clean Air Act (CA	A) Not regulated.
Section 112	A) Not regulated.
Hazardous Air	
Pollutants (HAPs	
List Clean Air Act (CA Section 112(r) Accidental Relea:	se
Prevention (40 C 68.130)	rk (



Safe Drinking Water	Contaminate candidate list.
Act (SDWA)	

US state regulations US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)	Not listed.
US. Massachusetts RTK - Substance List	Sodium Chlorate (CAS 7775-09-9)
US. New Jersey Worker and	Sodium Chlorate (CAS 7775-09-9)
Community Right- to-Know Act	
US. Pennsylvania RTK – Hazardous	Sodium Chlorate (CAS 7775-09-9)
Substances	Not regulated
US. Rhode Island RTK	Not regulated.
US. California Proposition 65	California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### International Inventories

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



\*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 #	8
<b>Revision Indicator</b>	Clarified precautionary statements and address updated.
List of abbreviations	ACGIH: American Conference of Governmental Industrial Hygienists
	CAS: Chemical Abstract Services
	CERCLA: Comprehensive Environmental Response, Compensation and
	Liability Act of 1980
	DOT: Department of Transportation
	EC: Effective Communication
	HMIS: Hazardous Materials Identification System
	HSDB: Hazardous Substances Data Bank
	IARC: International Agency for Research on Cancer
	IATA: International Air Transport Association
	IBC Code: International Code for the Construction and Equipment of
	Ships carrying Dangerous Chemicals in Bulk
	ICAO: International Civil Aviation Organization
	IMDG: International Maritime Dangerous Goods
	LC: Lethal Concentration
	LD: Lethal Dose
	MARPOL: Marine Pollution
	NFPA: National Fire Protection Association
	NIOSH: National Institute of Occupational Safety and Health
	NTP: National Toxicology Program
	OECD: Organization for Economic Cooperation and Development
	OEL: National occupational exposure limits
	OSHA: Occupational Safety and Health Administration
	PPE: Personal Protective Equipment
	RCRA: Resource Conservation and Recovery Act
	RQ: Reportable Quantity
	RTECS: Registry of Toxic Effects of Chemical Substances
	RTK: Right to Know
	SARA: Superfund Amendments and Reauthorization Act
	SDS: Safety Data Sheet
	STEL: Short Term Exposure Limit
	TSCA: Toxic Substances Control Act
	TWA: Time Weighted Average
	VOC: Volatile Organic Compounds
	WEL: Workplace Exposure Limit



#### Disclaimer

Information presented in this SDS is furnished in accordance with OSHA's Hazard Communication Standard (HCS) 2012.

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