



Safety Data Sheet

Sodium Chlorate Solution 20%-50%

Revision Date: 03/05/2024

Section 1. Identification

Product identifier

Product Identity

Sodium Chlorate Solution 20%-50%

Other means of identification

Sodium Chlorate Solution 20%-50%

Relevant identified uses of the substance or mixture and uses advised against

Oxidizing agent, pulp bleaching, defoliant, herbicide,
Use in the metal finishing industry.

Details of the supplier of the safety data sheet

Company Name

ERCO Worldwide LP

Address

5050 Satellite Drive Mississauga ON, L4W 0G1 Canada

Telephone

(416) 239-7111 (M- F: 8:00 am – 5:00pm EST)

Website

<https://www.ercoworldwide.com/>

Email

productinfo@ercoworldwide.com

24 hour Emergency Telephone No.

Canada & U.S.A.: (800) 424 9300 (CHEMTREC)

Supplier

Refer to Manufacturer

Section 2. Hazard(s) identification

Classification of the substance or mixture

Acute toxicity(oral), category 4;H302

Harmful if swallowed.

Aquatic toxicity (chronic), category 2;H411

Toxic to aquatic life with long lasting effects.

Label elements



Warning

H302 Harmful if swallowed.

H411 Toxic to aquatic life with long lasting effects.

[Prevention]

P264 Wash thoroughly after handling.

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

P273 Avoid release to the environment.

[Response]

P301+312 IF SWALLOWED: Call a POISON CENTER, doctor or physician if you feel unwell.

P312 Call a POISON CENTER, doctor or physician if you feel unwell.

P330 IF SWALLOWED: Rinse mouth.



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P391 Collect spillage.

[Storage]

No GHS storage statements

[Disposal]

P501 Dispose of contents or container in accordance with local and national regulations.

2.3. Other hazards

This product contains no PBT/vPvB chemicals.

This product contains no endocrine disrupting chemicals.

Section 3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the Hazardous Products Regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Chloric acid, sodium salt CAS Number: 7775-09-9 Synonyms: Sodium chlorate	30 - 60	Oxidizing solid, category 1;H271 Acute toxicity(oral), category 4;H302 Aquatic toxicity (chronic), category 2;H411	No data available

The actual concentration or concentration range is withheld as a trade secret.

*PBT/vPvB - PBT-substance or vPvB-substance.

The full texts of the phrases are shown in Section 16.

Section 4. First aid measures

Description of first aid measures

General

In all cases of doubt, or when symptoms persist, seek medical attention.
Never give anything by mouth to an unconscious person.

Inhalation

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious, place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

Eyes

Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

Skin

Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.

Ingestion

If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed

Overview

No specific symptom data available.
Treat symptomatically. See section 2 for further details.

Ingestion

Harmful if swallowed.

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing agents: Extinguish fire with large amounts of water.

For safety reasons unsuitable extinguishing agents: Do not use powder, foam or CO₂-type extinguishers. Do not smother the fire with a blanket.

Special hazards arising from the substance or mixture

Hazardous decomposition: Formation of toxic gases is possible during heating or in case of fire.

Advice for fire-fighters

As with all fires, wear positive pressure, self-contained breathing apparatus, (SCBA) with a full face piece and protective clothing. Persons without respiratory protection should leave area. Wear SCBA during clean-up immediately after fire. No smoking.

Evacuate personnel to safe areas. In the event of fire, wear self-contained breathing apparatus. When intervention in close proximity wear acid resistant over suit. Clean contaminated surfaces thoroughly. Additional information for firefighters: Evacuate personnel to safe areas. Keep product and empty container away from heat and sources of ignition. Cool containers / tanks with water spray. Control the use of water due to environmental risk.

ERG Guide No. 140

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

Environmental precautions

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

Methods and material for containment and cleaning up

Dam with sand or similar and collect in a plastic or metal container for disposal. Do not use sawdust, peat, bark or other combustible materials. Flush with large amounts of water. Contact experts in case of large spillages. Notify appropriate authorities. Waste on the ground must be collected. Solutions should not be drained into sewage systems.

Section 7. Handling and storage

Precautions for safe handling



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Handle containers carefully to prevent damage and spillage.

See section 2 for further details. - [Prevention]

Conditions for safe storage, including any incompatibilities

Incompatible materials: Mixtures with organic material are highly inflammable. Explosions can occur when mixed with combustible materials and subjected to addition of energy e.g. friction or impact. Textiles, cellulose or leather contaminated with chlorate ignite easily. Strong acids react violently with chlorates producing toxic and explosive gases, e.g. chlorine and chlorine dioxide

See section 2 for further details. - [Storage]

Specific end use(s)

No data available.

Section 8. Exposure controls / personal protection

Control parameters

Exposure			
CAS No.	Ingredient	Source	Value
7775-09-9	Chloric acid, sodium salt	ACGIH	No Established Limit
		Alberta	No Established Limit
		British Columbia	No Established Limit
		Manitoba	No Established Limit
		New Brunswick	No Established Limit
		Newfoundland and Labrador	No Established Limit
		Nova Scotia	No Established Limit
		Northwest Territories	No Established Limit
		Nunavut	No Established Limit
		Ontario	No Established Limit
		Prince Edward Island	No Established Limit
		Quebec	No Established Limit
		Saskatchewan	No Established Limit
		Yukon	No Established Limit

Exposure controls

Respiratory

If workers are exposed to concentrations above the exposure limit, they must use the appropriate, certified respirators.

Eyes

Protective safety glasses recommended

Skin

Protective gloves recommended.



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Engineering Controls Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapour below occupational exposure limits suitable respiratory protection must be worn.

Other Work Practices Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details.

Section 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State	Liquid
Color	Clear to pale yellow mobile
Odor	Odorless
Melting point / freezing point	Melting point/Freezing point: : -8 °C (17.6 °F) (20% solution); -18 °C (-0.4 °F) (40% solution)
Initial boiling point and boiling range	102 °C - 108 °C (215.6 °F - 226.4 °F)
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	Lower Explosive Limit: Not Available Upper Explosive Limit: Not Available
Flash Point	Not Available
Auto-ignition temperature	Not Available
Decomposition temperature	> 265 °C (> 500 °F)
pH	7-9
Viscosity (cSt)	Not Available
Solubility in Water	Soluble
Partition coefficient n-octanol/water (Log Kow)	Not Available
Vapour pressure (Pa)	Not Available
Relative Density	Density: 1.15 - 1.45 g/cm ³ Specific gravity: 1.15 – 1.45
Vapour Density	Not Available
Evaporation rate (Ether = 1)	Not Available
Explosive Properties	may have explosive properties
Other information	No other relevant information.

Section 10. Stability and reactivity



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Reactivity

Hazardous Polymerization will not occur.

Chemical stability

Stable under normal circumstances.

Possibility of hazardous reactions

No data available.

Conditions to avoid

High temperatures. Sunlight.

Incompatible materials

Mixtures with organic material are highly inflammable. Explosions can occur when mixed with combustible materials and subjected to addition of energy e.g. friction or impact. Textiles, cellulose or leather contaminated with chlorate ignite easily. Strong acids react violently with chlorates producing toxic and explosive gases, e.g. chlorine and chlorine dioxide

Hazardous decomposition products

Formation of toxic gases is possible during heating or in case of fire.

Section 11. Toxicological information

Acute toxicity

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation vapour LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Chloric acid, sodium salt - (7775-09-9)	> 5,000.00, Rat - Category: NA	>2,000.00, Rabbit - Category: 5	No data available.	No data available.	No data available.

Carcinogen Data

CAS No.	Ingredient	Source	Value
7775-09-9	Chloric acid, sodium salt	IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
		ACGIH	No Established Limit

Classification	Category	Hazard Description
Acute toxicity (oral)	4	Harmful if swallowed.
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	---	Not Applicable
Serious eye damage/irritation	---	Not Applicable
Respiratory sensitization	---	Not Applicable
Skin sensitization	---	Not Applicable
Germ cell mutagenicity	---	Not Applicable



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Carcinogenicity	---	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-single exposure	3	Not Applicable
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

Possible routes of entry: No data available.

Symptoms and effects, both acute and delayed:

No specific symptom data available.

Treat symptomatically.

Ingestion

Harmful if swallowed.

Section 12. Ecological information

Toxicity

Toxic to aquatic life with long lasting effects.

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/L	48 hr EC50 crustacea, mg/L	ErC50 algae, mg/L
Chloric acid, sodium salt - (7775-09-9)	> 1,000, Fish	> 1,000, Daphnia magna	> 1,000, Algae

Persistence and degradability

There is no data available on the preparation itself.

Bioaccumulative potential

Not Available

Mobility in soil

No data available.

Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

Other adverse effects

No data available.

Section 13. Disposal considerations

Waste treatment methods

Waste should not be released to sewers. Observe all federal, state, and local regulations when disposing of this substance.



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Section 14. Transport information

Classification Method: Classified as per Part 2, Sections 2.1 - 2.8 of the Transportation of Dangerous Goods Regulations.

	TDG (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
UN number	UN2428	UN2428	UN2428
UN proper shipping name	UN2428, Sodium chlorate, aqueous solution, 5.1, II	Sodium chlorate, aqueous solution	Sodium chlorate, aqueous solution
Transport hazard class(es)	TDG Hazard Class: 5.1 Sub Class: Not Applicable	IMDG: 5.1 Sub Class: Not Applicable	Air Class: 5.1 Sub Class: Not Applicable
Packing group	II	II	II
Environmental hazards	Marine Pollutant: Yes; (Chloric acid, sodium salt)		

Special precautions for user

Not Applicable

Section 15. Regulatory information

Regulatory Overview The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

This product has been classified in accordance with the hazard criteria Hazardous Products Regulations (SOR/2015-17) and the SDS contains all of the information required by those regulations.

Toxic Substance Control Act (TSCA)

Chloric acid, sodium salt ()

Water ()

Canadian Domestic Substance List (DSL):

Chloric acid, sodium salt

Water

Canadian Non-Domestic Substance List (NDSL):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

New Jersey RTK Substances (>1%):

Chloric acid, sodium salt

Pennsylvania RTK Substances (>1%):

Chloric acid, sodium salt



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Proposition 65 - Carcinogens (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Developmental Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Female Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Male Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 Label Warning:

This product contains no chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Chemical Name (CAS Number)	US TSCA	Australia AICS	Korea ECL	EU EINECS	EU ELINCS	EU SVHC	EN NLP	Mexico INSQ
Chloric acid, sodium salt (7775-09-9)	Yes	Yes	Yes	Yes	No	No	No	Yes

Chemical Name (CAS Number)	China IECSC	Japan ENCS	Japan ISHL	Japan PDSCL	Japan PRTR 1	Japan PRTR 2	Philippines PICCS	New Zealand NZIOC
Chloric acid, sodium salt (7775-09-9)	Yes	Yes	No	Yes	No	No	Yes	Yes

Section 16. Other information

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The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H271 May cause fire or explosion; strong oxidizer.

H302 Harmful if swallowed.



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H411 Toxic to aquatic life with long lasting effects.

Disclaimer: The information presented herein is supplied as a guide to those who handle or use this product. Safe work practices must be employed when working with any materials. It is important that the end user makes a determination regarding the adequacy of the safety procedures employed during the use of this product.

End of Document

