

Safety Data Sheet

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CHEMICAL PRODUCT INFORMATION

Product Name : LPD-CHLOR
CAS # : 7757-83-7
Chemical Name : Sodium sulfite

Chemical Formula : Na₂SO₃

Synonym : Disodium sulfite

Product Use : Dechlorinating agent for water and wastewater

Original Issue Date : October 15, 1995
Previous Revision Date : May 9, 2017
Revision Date : November 9, 2018

MANUFACTURER INFORMATION

Company Name : De Nora Water Technologies, Inc.

Street Address : 3000 Advance Lane
City, State, Zip, Country : Colmar, PA 18915, USA

Office Phone Number : 1-215-997-4000

24-HR EMERGENCY TELEPHONE NUMBER

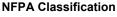
CHEMTREC : US: 1-800-424-9300 International: 1-703-527-3887

I EGEND – HMIS/NEPA

LEGEND - HMIS/NFPA	ı
Severe Hazards or Risks	4
Serious Hazards or Risks	3
Moderate Hazards or Risks	2
Slight Hazards or Risk	1
Minimal Hazards or Risks	0

HMIS Classification







Health	2
Fire	0
Reactivity	1
Spceific Hazards	None

PPE Supplied by user, dependent on local conditions.

SECTION 2: HAZARD(S) IDENTIFICATION

Classification of the Substance or Mixture

UN GHS & Canada WHMIS : Acute Toxicity: Oral (Category 4)

2015 Acute Toxicity: Inhalation (Category 4)

Skin Corrosion/Irritation (Category 2)

Eye Damage/Irritation (Category 2A)

Eye Damage/Irritation (Category 2A)

US OSHA 29 CFR 1910.1200 :

HCS

Based on available data, the classification criteria are not met

Label Elements

UN GHS & Canada WHMIS :

(!)

Irritant

US OSHA 29 CFR 1910.1200 : None required

HCS

Hazard Statement : H302 - Harmful if swallowed

H315 – Causes skin irritation

H319 – Causes serious eye irritation

SECTION 2: HAZARD(S) IDENTIFICATION

H332 - Harmful if inhaled

Reaction with acids form toxic and irritating sulfur dioxide gas. Hazardous decomposition products formed under fire

conditions.

Precautionary Statements : P261 – Avoid breathing dust/fume/gas/mist/vapor/spray

P264 – Wash exposed skin thoroughly after handling P280 – Wear protective gloves and eye protection P280 – Wear protective gloves and eye protection

P302+P352 – IF ON SKIN: Wash with plenty of soap and water P305+P351+P358 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing

P332+P313 - If skin irritation occurs: Get medical

advice/attention

P337+P313 - If eye irritation occurs: Get medical

advice/attention

P362 – Take off contaminated clothing

Other Hazards

Other hazards not contributing to the classification

None.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Molecular Formula	Molecular Weight	% of Mixture	CAS#
Sodium sulfite	Na ₂ SO ₃	126.043 gm/mol	81.3	7757-83-7

Note: Inert Ingredients 7.7%.

SECTION 4: FIRST AID MEASURES

Eyes : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids

open. Seek medical attention if difficulties persist.

Skin : Remove contaminated clothing and footwear. Wash with plenty

of soap and water. Clothing and footwear should be decontaminated before reuse. Seek medical attention if

irritation occurs or persists.

Inhalation : Remove victim out of contaminated area to fresh air. If

breathing is stopped or irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get

medical attention immediately.

Ingestion : If victim is conscious, immediately give a large quantity of water

or milk and induce vomiting. Seek medical attention

immediately.

If victim is unconscious or in convulsions, do not give anything

by mouth. Seek medical attention immediately.

Notes to Physician : Treat symptomatically. Contact poison treatment specialist

immediately if large quantities have been ingested or inhaled.

SECTION 5: FIRE-FIGHTING MEASURES

Flammability of the Product : Not flammable.

Auto-ignition Temperature : Not applicable.

Upper Flammable Limit : Not applicable.

SECTION 5: FIRE-FIGHTING MEASURES

Lower Flammable Limit

Not applicable.

Fire Extinguishing Media

Material is not flammable. Use extinguishing media appropriate

for material in surrounding fire.

Special Fire Fighting

Procedures

Fire-fighters should wear appropriate personal protective equipment (PPE) and NIOSH-approved self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Use water-spray to keep containers

cool and to knock down fumes.

Unusual Hazard Information At 1112°F (600°C) sodium sulfite is formed; at 1652°F (900°C)

sulfur dioxide is formed.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Leak / Spill LPD-CHLOR is not a regulated product. However, in the event

of a spill, wear appropriate protective rubber gloves and boots. Use chemical splash goggles and breathing apparatus if necessary. Collect all spilled material and place in suitable

containers for disposal.

Waste Disposal Methods LPD-CHLOR is not rated as a hazardous substance by the

EPA. Unused material is not rated as a hazardous waste by RCRA. Solid waste can be buried at a licensed waste disposal facility. Collected material can be dissolved in water, using caution as solution may get hot. Neutralize with acid and dispose through wastewater treatment plant (WWTP). Prior approval from plant personnel as well as Local, State and Federal environmental agencies should be obtained before disposal to WWTP. Good ventilation is necessary during

neutralization due to release of sulfur dioxide gas.

Environmental Precautions Prevent waste entry into drains, water courses or the soil. File

environmental spill notifications if necessary.

SECTION 7: HANDLING AND STORAGE

Handling Procedures : Wear appropriate personal protective equipment (see Section

8). Avoid contact with skin, eyes and clothing. Do not breathe dust. Do not eat or drink in the work area. Keep away from

incompatibles such as oxidizing agents, and acids.

Keep product dry and in a tightly closed container when not in **Storage Requirements**

use. Store in cool, dry, well-ventilated area, keeping it away

from heat sources and/or open flames.

For best results, product should not be stored at temperatures

in excess of 80°F.

Keep in original container. DO NOT store/transfer/repack this in any other container without approval/authorization of De Nora Water Technologies, Inc.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

General Product Information No exposure limits have been established.

ACGIH, OSHA, and NIOSH have not developed exposure Component Exposure Limits

limits for any of this product's components.

Other Exposure Limits for Potential Decomposition

Sulfur dioxide: NIOSH REL : TWA 2 ppm (5 mg/m³)

STEL 5 ppm (13 mg/m³)

Products: : TWA 5 ppm (13 mg/m³) OSHA PEL ACGIH STEL: TLV 0.25 ppm (0.65 mg/m³)

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective Equipment

Eyes and Face : Chemical splash goggles and face shield.

Hands : Chemical-resistant, impervious gloves (nitrile, neoprene, butyl

rubber) should be worn at all times.

Respiratory Protection : If workers are exposed to concentrations above the exposure

limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with NIOSH standard. NIOSH approved dust mask is essential

where dusting may occur.

Other Clothing and

Equipment

Boots, aprons, or chemical suits should be used when necessary to prevent skin contact. Personal protective clothing and use of equipment must be in accordance with 29 CFR 1910.132 (general requirement), .133 (eye and face

protection), and .138 (hand protection).

Engineering Controls

Ventilation Requirements : Ensure adequate ventilation. Provide appropriate exhaust

ventilation at machinery and at places where dust can be

generated or if there is a release of sulfur dioxide gas.

Other : Emergency shower and eyewash are recommended.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State : Dry Solid Tablet.

Color : Pale green solid tablet.

Odor : Slight sulfur odor; pine fragrance added.

Boiling/condensation point : Not applicable.

Flammability properties : The product is not flammable.

Oxidizing properties : Non-oxidizer, oxygen scavenger.

Decomposition temperature : 900° C (1652°F) **Specific gravity of tablet** : $2.0 \text{ min. } (H_2O = 1)$

pH of solution : Alkaline.

Vapor pressure: Not applicable.Vapor density (air = 1): Not applicable.Percent volatile by volume: Not applicable.

Solubility in water : 22% by weight at 80°F (or 26°C).

Bulk density : 125 lbs/ft³ (2.0 g/cm³).

Note: Exposure to acids will release SO₂ gas.

SECTION 10: STABILITY AND REACTIVITY

Stability : Stable under recommended storage conditions. Product

decomposes at approximately 900°C (1652°F) releasing sulfur

dioxide gas and hazardous residue.

Incompatibility (materials to

avoid)

: Strong oxidizers: causes vigorous exothermic reactions.

Acids: release sulfur dioxide gas.

Hazardous Decomposition or

By-products

: Sulfur dioxide, Sulfur oxide, and Sodium sulfide residue. Sulfur dioxide is toxic, corrosive and an oxidizer. Sodium sulfide

residue is flammable and a strong irritant to skin.

Hazardous Polymerization: This product is not known to polymerize.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity LD50 (oral, mouse): 820 mg/kg

LD50 (oral, rat): >2,000 mg/kg

LC50 (inhalation, rat): >5.5 mg/L/4 hrs. LC50 (inhalation, rat): >22 mg/L/1 hr.

Potential Acute Health Effects

Dust or mist causes irritation to the respiratory tract. Breathing Inhalation :

of dust may aggravate asthma or other pulmonary diseases. Symptoms: headache. breathing difficulties.

consciousness and cardiopulmonary arrest.

Ingestion: Ingestion may irritate the gastrointestinal tract. Estimated to be

moderately toxic. May cause severe allergic reactions in some asthmatics. Large doses may cause violent colic and diarrhea,

central nervous depression, and even death.

Eye Contact : Dust or mist may irritate or burn the eyes. Solutions will cause

irritation or burns to the eyes.

Dust or mist may cause skin irritation from prolonged contact. Skin Contact :

Solutions will cause skin irritation.

Delayed (Subchronic and

Chronic) Effects

Sodium sulfite has been demonstrated to be mutagenic in

microbial systems; however, it is not mutagenic in studies involving insects and is not considered to present a mutagenic

threat to multicell organisms.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity Effects The following Ecotoxicity data is available for Sodium sulfite.

> Carassius auratus (goldfish), LD50, 96 hrs. 100 mg/L Daphnia magna, LC50, 48 hrs. 440 mg/L Western Mosquitofish, LC50, 96 hrs. 460 mg/L Biochemical Oxygen Demand (BOD) 0.12 lb/lb

instantaneous

Mobility No data available. Persistence and degradability No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

RCRA

Is the unused product a RCRA hazardous waste if

discarded?

If yes, the RCRA ID number is

: No

Not applicable.

Waste disposal considerations The generation of waste should be avoided or minimized

> whenever possible. Follow "Leak and Spill Procedures" outlined in Section 6 of this SDS for neutralizing material before disposal. Disposal of waste material and its container must be in accordance with applicable federal, state, and local laws and

regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION for additional handling and protection of employees.

SECTION 14: TRANSPORT INFORMATION

US DOT Hazard Class Not regulated. **US DOT ID Number** Not applicable. **Proper Shipping Name** Not applicable.

For additional information on shipping regulations affecting this product, contact the information number provided in Section 1.

SECTION 15: REGULATORY INFORMATION

Inventory Status :

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	AICS	Yes
Canada	DSL	Yes
China	IECSC	Yes
Europe	EINECS	Yes
Japan	ENCS	Yes
Korea	ECL	Yes
Philippines	PICCS	Yes
United States & Puerto Rico	TSCA 8(b)	Yes

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

US Federal Regulations : None of this product's components are listed under SARA

Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40

CFR 372.65), or CERCLA (40 CFR 302.4).

SARA 302 (EHS TPQ) : There are no specific Threshold Planning Quantities for Sodium

sulfite. The default Federal SDS Submission and inventory requirement filling threshold of 10,000 lbs (4,500 kg) therefore,

applies, per 40 CFR 370.20.

SARA 311/312 MSDS : Chemical Inventory – Hazard Identification: Sodium sulfite

Distribution

Acute (Immediate) Hazard – Yes

Chronic (Delayed) Hazard – Yes Fire Hazard – No

Reactivity Hazard – No Pressure Hazard- No

Clean Air Act : Not available.
Clean Water Act : Not available.

Canadian Federal Regulations : This product has been classified in accordance with the hazard

criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products

Regulations.

WHMIS Classification : Class D Division 2 Subdivision B – Toxic material causing other

toxic effects.

European Regulations : European Labeling in Accordance with EC Directives

Risk Phrases : This product is not classified according to EU legislation.

SECTION 16: OTHER INFORMATION

Key to Abbreviations

ACGIH	American Conference of Industrial Hygienists
AICS	Australia Inventory of Chemical Substances
CAS	Chemical Abstracts Service Registry Number
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
DSL	Domestic Substance List
EC	European Commission
EINECS	European Chemical Substances Information System
ENCS	Existing and New Chemical Substances
EU	European Union
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
IECSC	Inventory of Existing Chemical Substances in China
LC50	Lethal Concentration. It is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals.
LD50	Lethal Dosage. It is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.

NIOSH	National Institute for Occupational Safety and Health
NFPA	National Fire Protection Association
OECD	Organization for Economic Cooperation and Development
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
PICCS	Philippines Inventory of Chemicals and Chemical Substances
PPE	Personal Protective Equipment
REL	Recommended Exposure Limit
SARA	Superfund Amendments and Reauthorization Act
SCBA	Self-contained Breathing Apparatus
SDS	Safety Data Sheet
STEL	Short Term Exposure Limit (15 minutes)
TLV	Threshold Limit Value
TPQ	Threshold Planning Quantity
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average (8 hours)
US DOT	United States Department of Transportation
WHMIS	Workplace Hazardous Information System

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