

SAFETY DATA SHEET

Creation Date 22-Jun-2009 Revision Date 13-Dec-2024

1. Identification

Product Name: Sodium chloride

Cat No.: S640-3; S640-10; S640-10LC; S640-50; S640-350LB; S640-500; S640SAM-1;

S640SAM-2; S640SAM-3; XXBA160; XXBA161; NC0989027; XXS640PD350LB

CAS No 7647-14-5

Synonyms NaCl; Salt (Crystalline/Granular/USP/FCC/EP/BP/JP/ Certified ACS/Biological, Certified)

Recommended Use Laboratory chemicals.

Uses advised against Food, drug, pesticide or biocidal product use.

2. Hazard(s) identification

Classification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements

None required

Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients

Component	CAS No	Weight %
Sodium chloride	7647-14-5	>95

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at

least 15 minutes. Get medical attention.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Get

medical attention immediately if symptoms occur.

Inhalation Remove to fresh air. Get medical attention immediately if symptoms

occur.

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Ingestion Get medical attention if symptoms occur. Clean mouth with water and

drink afterwards plenty of water.

Most important symptoms

and effects

None reasonably foreseeable.

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Unsuitable Extinguishing Media No information available

Flash Point No information available **Method** - No information available

Autoignition Temperature

Explosion Limits

No information available

UpperNo data availableLowerNo data availableSensitivity to Mechanical ImpactNo information availableSensitivity to Static DischargeNo information available

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

Hydrogen chloride gas. Sodium oxides.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
1	0	1	N/A

6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment as

required. Avoid dust formation.

Environmental Precautions Should not be released into the environment.

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Methods for Containment Sweep up and shovel into suitable containers for disposal. Avoid dust

formation.

and Clean

7. Handling and storage

Handling Wear personal protective equipment/face protection. Ensure adequate

ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and

inhalation. Avoid dust formation.

Storage. Keep containers tightly closed in a dry, cool and well-ventilated place.

Store under an inert atmosphere. Protect from moisture. Incompatible

Materials. Strong oxidizing agents. Metals. Strong acids.

8. Exposure controls / personal protection

Exposure Guidelines This product does not contain any hazardous materials with occupational

exposure limits established by the region-specific regulatory bodies.

Engineering Measures Ensure adequate ventilation, especially in confined areas. Ensure that

eyewash stations and safety showers are close to the workstation

location.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as

described by OSHA's eye and face protection regulations in 29 CFR

1910.133 or European Standard EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin

exposure.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or

European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirators if exposure limits are exceeded or if irritation or

other symptoms are experienced.

Recommended Filter type Particle filter.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

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9. Physical and chemical properties

Physical State Solid Appearance White Odor Odorless

Odor Threshold No information available 5.0-8.0 @ 20°C; 5% aq.sol Melting Point/Range 801 °C / 1473.8 °F

Boiling Point/Range 1461 °C / 2661.8 °F @ 760 mmHg

Flash Point No information available

Evaporation Rate Not applicable

Flammability (solid,gas) No information available

Flammability or explosive limits

Upper No data available Lower No data available **Vapor Pressure** 1 mmHg @ 865 °C Vapor Density Not applicable

No information available Specific Gravity Solubility Soluble in water

Partition coefficient; n-octanol/water No data available **Autoignition Temperature** No information available **Decomposition Temperature** No information available

Viscosity

Not applicable **Molecular Formula** CI Na **Molecular Weight** 58.44

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Hygroscopic.

Conditions to Avoid Incompatible products. Excess heat. Avoid dust formation. Exposure to

moist air or water.

Incompatible Materials Strong oxidizing agents, Metals, Strong acids

Hazardous Decomposition

Products

Hydrogen chloride gas, Sodium oxides

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information See actual entry in RTECS for complete information.

Component Information

Component LD50 Oral LD50 Dermal LC50 Inhalation

Sodium chloride LD50 = 3 g/kg (Rat) LD50 > 10000 mg/kg (Rabbit) LC50 > 42 mg/L (Rat) 1 h

Toxicologically Synergistic Products

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No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure Irritation No

information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component CAS No IARC NTP ACGIH OSHA Mexico

Sodium chloride 7647-14-5 Not listed Not listed Not listed Not listed

Not listed

Mutagenic Effects Not mutagenic in AMES Test

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure None known STOT - repeated exposure None known

Aspiration hazardNo information available

Symptoms / effects, both acute and delayed

No information available

Endocrine Disruptor Information No information available

Ecotoxicity

Do not empty into drains. .

Component Freshwater Algae Freshwater Fish Microtox Water Flea

Sodium chloride Not listed Pimephals prome: LC50: 7650 mg/L/96h Not listed EC50: 1000

mg/L/48h

Persistence and Degradability Soluble in water Persistence is unlikely based on information available.

Bioaccumulation/ Accumulation No information available.

Mobility Will likely be mobile in the environment due to its water solubility.

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a

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hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

DOT Not regulated TDG Not regulated IATA Not regulated

IMDG/IMO Not regulated

United States of America Inventory

Component CAS No TSCA TSCA Inventory notification - Active-Inactive TSCA - EPA Regulatory Flags Sodium chloride 7647-14-5 X ACTIVE -

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed - '-'Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)

Not applicable

TSCA 12(b) - Notices of Export Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component CAS No DSL NDSL EINECS PICCS ENCS ISHL AICS IECSC KECL Sodium chloride 7647-14-5 Χ Χ Χ 231-598-3 Χ Χ Χ KE-31387

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313 Not applicable

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act) Not applicable

Clean Air Act Not applicable

OSHA - Occupational Safety and Health Administration

Not applicable

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CERCLA Not applicable

California Proposition 65 This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Not applicable

U.S. Department of Transportation
Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade Severe risk, Grade 4

Authorisation/Restrictions according to EU REACH Not applicable

Component CAS No REACH- (2006/1907)

Annex XIV - Substances Subject to Authorization REACH- (2006/1907)

Annex XVII - Restrictions on Certain Dangerous Substances REACH Regulation (EC 1907/2006) article 59 -

Candidate List of Substances of Very High Concern (SVHC) Sodium chloride 7647-14-5 - - -

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component CAS No OECD HPV Persistent Organic Pollutant Ozone Depletion Potential

Restriction of Hazardous Substances (RoHS)

Sodium chloride 7647-14-5 Listed Not applicable Not applicable Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

Other International Regulations

Component CAS No Seveso III Directive (2012/18/EC)-

Qualifying Quantities for Major Accident Notification Seveso III Directive (2012/18/EC)-

Qualifying Quantities for Safety Report Requirements Rotterdam Convention (PIC) Basel

Convention (Hazardous Waste)

Sodium chloride 7647-14-5 Not applicable Not applicable Not applicable Not applicable

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Prepared By Regulatory Affairs Thermo Fisher Scientific

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End of SDS