

Version 2.0
Date revised: 5/29/2015

SAFETY DATA SHEET

Conforms to regulation (EC) no. EU 453/2010

SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Product Name: Sodium Chloride, 0.9 percent solution

Product Number: EC-901

1.2 Relevant Identified Uses of the Substance/Mixture and Uses Advised Against

Investigational research by professional users

1.3 Details of the Supplier of the Safety Data Sheet

Manufacturer

National Diagnostics
305 Patton Drive
Atlanta, GA 30036
(404) 699-2121
(800) 526-3867
info@nationaldiagnostics.com

1.4 Emergency Telephone Number

Chemtrec
1-800 424-9300 (U.S. & Canada)
01-703-527-3887 (outside U.S. & Canada)

SECTION 2 - HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

Not a hazardous substance or mixture according to regulation (EC) No. 1272/2008.

2.2 Label Elements

This product has no labeling elements associated with EC directives or respective national laws.

2.3 Other Hazards

None found.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixture

Chemical Names/Description

Sodium chloride

Component List

Component	% Comp.	CAS #	EC #	1278/2008 Classification
Sodium Chloride	0.9	7647-14-5	231-598-3	N.A.

SECTION 4 - FIRST AID MEASURES

4.1 Description of First Aid Measures

Inhalation

Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Ingestion

If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid. Wash mouth out with water.

Skin

Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.

Eyes

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

Inhalation

No information found.

Ingestion

No information found.

Skin

No information found.

Eyes

No information found.

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

Unknown/not applicable

SECTION 5 - FIRE FIGHTING MEASURES

5.1 Extinguishing media

For small fires, use water spray, dry chemical, carbon dioxide or chemical foam.

5.2 Special Hazards Arising from the Substance/Mixture

Hazardous Combustion Products

N.A.

Hazardous Decomposition Products

Toxic fumes of sodium oxide.

Hazardous Polymerization

Has not been reported.

5.3 Advice for Firefighters

Use proper personal protective equipment as indicated in Section 8.

5.4 Further Information

No data available.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions

Wear appropriate protective equipment as specified in Section 8.

6.2 Environmental Precautions

Prevent discharge into the environment. Dike spills and stop leakage where practical. Do not allow material to enter drains.

6.3 Methods and Materials for Containment and Cleaning Up

Use absorbent material to collect and contain for salvage or disposal.

6.4 References to Other Sections

For disposal information, see Section 13. For protective clothing and equipment, see Section 8.

SECTION 7 - HANDLING AND STORAGE

7.1 Precautions for Safe Handling

Avoid contact and inhalation. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling.

7.2 Conditions for Safe Storage (including any incompatibles)

Store tightly capped in a cool, dry area.

Incompatibles

No incompatibility data found.

7.3 Specific End Uses

Investigational research by professional users

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PRECAUTIONS

8.1 Control Parameters

ACGIH Threshold Limit Value (TLV): none established

OSHA Permissible Exposure Limit (PEL): None established

8.2 Exposure Controls

Engineering Controls

Good general ventilation should be sufficient to control airborne levels. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Respiratory Protection

A NIOSH/MSHA approved air purifying dust or mist respirator or European Standard EN 149.

Eye Protection

Wear safety glasses with side shields.

Skin Protection

Wear appropriate gloves to prevent skin exposure.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical & Chemical Properties

a. Appearance	Clear, colorless solution	b. Odor	None
c. Odor Threshold	N.A.	d. pH	Neutral
e. Melting/Freezing Point (°C)	0	f. Boiling point (°C)	101
g. Flash Point (°C)	N.A.	h. Evaporation Rate	Water
i. Flammability	N.A.	j. Upper/Lower Flammability or Explosive Limits	N.A.
k. Vapor Pressure	17	l. Vapor Density (Air = 1)	0.62
m. Relative Density	1.01	n. Water Solubility	Soluble
o. Partition Coefficient n-octanol/water	Mixture	p. Autoignition Temperature (°C)	N.A.
q. Decomposition Temperature (°C)	N.A.	r. Viscosity	N.A.
s. Explosive Properties	N.A.	t. Oxidizing Properties	N.A.

SECTION 10 - STABILITY AND REACTIVITY

10.1 Reactivity

N.A.

10.2 Chemical Stability

Stable

10.3 Possibility of Hazardous Reactions

Has not been reported.

10.4 Conditions to Avoid

High temperatures, exposure to moist air or water.

10.5 Incompatible Materials

No incompatibility data found.

10.6 Hazardous Decomposition Products

Toxic fumes of sodium oxide.

SECTION 11 - TOXICOLOGICAL INFORMATION

Product LD50 Values

Oral Rat LD50 (mg/kg)

3 g/kg

Dermal Rabbit LD50 (mg/kg)

10 g/kg or less

Component Cancer List Status

	NTP Carcinogen		IARC Category
	Known	Anticipated	
Sodium Chloride	No	No	None

Potential Health Effects

Inhalation

May cause respiratory tract irritation.

Ingestion

Ingestion of large amounts may cause gastrointestinal irritation. Ingestion of large amounts may cause nausea and vomiting, rigidity or convulsions. Continued exposure can produce a coma, dehydration and internal organ congestion.

Skin

May cause skin irritation.

Eyes

May cause eye irritation.

Carcinogenicity

Not listed by ACGIH, IARC, NIOSH, NTP or OSHA.

Mutagenicity

See actual entry in RTECS for complete information.

Reproductive Toxicity

No data available.

Teratogenic Effects

No information found.

Routes of Entry

No information found.

Target Organ Statement

No information found.

SECTION 12 - ECOLOGICAL INFORMATION**12.1 Toxicity**

	Vertebrates	Invertebrates	Algae	Microorganisms
Aquatic Toxicity (ppm unless otherwise noted)	LC50 (96hrs, bluegill) 5480 mg/L	LC50 (48 hr, daphnia) 874mg/L	LC50 (120hrs) 2430 mg/L	No data
	Birds	Arthropods	Plants	Microorganisms
Terrestrial Environment Toxicity (ppm unless otherwise noted)	LD50 (house sparrow) 3500mg/kg	No data	IC50 (7 days) 500-1950mg/kg soil	No data

12.2 Persistence and Degradability

No data

12.3 Bioaccumulative Potential

No data

12.4 Mobility in Soil

No data

12.5 Results of PBT and vPvB Assessment

Not PBT or vPvB

12.6 Other Adverse Effects

None

SECTION 13 - DISPOSAL CONSIDERATIONS**13.1 Waste Treatment Methods**

Offer surplus or non-recyclable product to licensed disposal company. Disposal is subject to user compliance with applicable law and product characteristics at time of disposal. Dispose of packaging as product.

SECTION 14 - TRANSPORT INFORMATION

	ADR/RID	IATA	IMO	DOT
14.1 UN Number	N.A.	N.A.	N.A.	N.A.
14.2 Shipping Name	N.A.	N.A.	N.A.	N.A.
14.3 Hazard Class	N.A.	N.A.	N.A.	N.A.
14.4 Packing Group	N.A.	N.A.	N.A.	N.A.
14.5 Environmental Hazards	N.A.	N.A.	N.A.	N.A.
14.6 Special Precautions	N.A.	N.A.	N.A.	N.A.

SECTION 15 - REGULATORY INFORMATION**15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance/Mixture****United States****TSCA Regulatory Statement**

CAS# 7647-14-5 is listed on the TSCA inventory.

SARA 311/312 Hazard Categories

Component	Fire	Pressure	Reactivity	Acute	Chronic
Sodium Chloride	No	No	No	Yes	No

Europe**EEC Regulatory**

All of the components of this product are listed on the European Inventory of New and Existing Chemical Substances (EINECS) inventory.

SECTION 16 - OTHER INFORMATION**Revisional Updates**

5/29/2015 - Updated Sections 2.1 and 3.2

4/16/2013 - Released Version 1.0

NFPA Codes

Health 1 Flammability 0 Reactivity 0

Dangers

Sodium Chloride

None

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