



# SAFETY DATA SHEET

Preparation Date: 12/30/2019 Revision date Not applicable Revision Number: Not applicable

### 1. IDENTIFICATION

**Product identifier** 

Product code: Z1377

Product Name: Sodium Chloride Solution 0.9 Percent (Normal Saline), Sterile, Full Testing, USP

Other means of identification

**Synonyms:** 0.9% Normal Saline Solution (w/v)

Isotonic Saline solution

Soduim Chloride, 0.9% (w/v) solution

CAS #: Mixture
RTECS # Not available
CI#: Not available

Recommended use of the chemical and restrictions on use

**Recommended use:**Uses advised against
No information available.
No information available.

Supplier: Spectrum Chemical Mfg. Corp

14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000

Order Online At: https://www.spectrumchemical.com

Emergency telephone number Chemtrec 1-800-424-9300

Contact Person:Tom Tyner (USA - West Coast)Contact Person:Ibad Tirmiz (USA - East Coast)

# 2. HAZARDS IDENTIFICATION

#### Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

## Label elements

Not classified			

Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

Product code: Z1377 Product name: Sodium Chloride Page 1 / 11

Solution 0.9 Percent (Normal Saline), Sterile, Full Testing, USP

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No	Weight-%
Water	7732-18-5	99.1
Sodium Chloride	7647-14-5	0.9

#### 4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you

have a poison emergency and need to talk to a poison specialist. Call

1-800-222-1222.

**Skin Contact:** Wash off immediately with soap and plenty of water removing all contaminated clothing and

shoes. Get medical attention if irritation develops. Consult a physician if necessary.

**Eye Contact:** Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If symptoms

persist, call a physician.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen. Get medical attention.

**Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms Health injuries are not known or expected under normal use

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

**Protection of first-aiders** 

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

### **5. FIRE-FIGHTING MEASURES**

**Extinguishing Media** 

Suitable Extinguishing Media: The product is not flammable.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous combustion products

No information available.

Specific hazards No information available.

**Special Protective Actions for Firefighters** 

Product code: Z1377 Product name: Sodium Chloride Page 2 / 11 Solution 0.9 Percent (Normal Saline).

Specific Methods: No information available

**Special Protective Equipment for Firefighters:** As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

**Personal Precautions:** Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin,

eyes and clothing.

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up

**Methods for containment**Stop leak if you can do it without risk. Absorb spill with inert material (e.g.

vermiculite, dry sand or earth).

**Methods for cleaning up** Absorb spill with inert material (e.g. vermiculite, dry sand or earth). Use

appropriate tools to put the spilled material in a suitable chemical waste disposal

container.

### 7. HANDLING AND STORAGE

### Precautions for safe handling

#### **Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials.

### Safe Handling Advice:

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe vapors or spray mist. Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

### **Technical Measures/Storage Conditions:**

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

# **Incompatible Materials:**

Strong oxidizing agents

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

### National occupational exposure limits

### **United States**

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
Water	7732-18-5	None	None	None	None
Sodium Chloride	7647-14-5	None	None	None	None

#### Canada

Product code: Z1377 Product name: Sodium Chloride Solution 0.9 Percent (Normal Saline),

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Water	7732-18-5	None	None	None	None
Sodium Chloride	7647-14-5	None	None	None	None

#### **Australia and Mexico**

Component	CAS No	Australia	Mexico
Water	7732-18-5	None	None
Sodium Chloride	7647-14-5	None	None

### Appropriate engineering controls

Ensure adequate ventilation. Provide exhaust ventilation or **Engineering measures to reduce exposure:** 

other engineering controls to keep the airborne

concentrations of vapors and mist below their respective

threshold limit value.

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

### **Personal Protective Equipment**

Eye protection: Goggles

Skin and body protection: Chemical resistant apron

Gloves

Long sleeved clothing

Respiratory protection: Respiratory protection is not necessary for normal handling. Good room

> ventilation or use of local exhaust (fume hood) is sufficient. Use a vapor respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapor, inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to

use an approved/certified respirator or equivalent.

Avoid contact with skin, eyes and clothing. Wash hands before breaks and Hygiene measures:

immediately after handling the product When using, do not eat, drink or smoke.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Appearance: Color:

Liquid No information available. Clear. Colorless.

**Formula** Odor: Taste

No information available. Saline. No information available

Molecular/Formula weight (g/mole): Flammability (solid, gas) Flashpoint (°C/°F): No information available no data available No information available

Flash Point Tested according to: Autoignition Temperature (°C/°F): **Lower Explosion Limit (%):** Not available No information available No information available

**Upper Explosion Limit (%):** Melting point/range(°C/°F): Decomposition temperature(°C/°F):

No information available No information available No information available

Boiling point/range(°C/°F): **Bulk density:** 

Product code: Z1377 Product name: Sodium Chloride Page 4/11

Solution 0.9 Percent (Normal Saline),

The lowest known value is

100°C/212°F (water)

No information available

Density (g/cm3):

No information available

Specific gravity: Ha

approximately 1.0 No information available Vapor pressure @ 20°C (kPa):

No information available

**Evaporation rate:** Vapor density:

No information available

VOC content (g/L):

No information available

No information available

No information available

**Viscosity:** 

Odor threshold (ppm): Partition coefficient

No information available (n-octanol/water):

No information available

Miscibility: Solubility:

Easily soluble in cold water No information available

Easily soluble in hot water

# 10. STABILITY AND REACTIVITY

Reactivity

May react with strong oxidizers

**Chemical stability** 

Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Incompatible materials.

**Incompatible Materials:** Strong oxidizing agents

Hazardous decomposition

products:

No information available.

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

## 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

**Principal Routes of Exposure:** 

Eyes. Skin.

**Acute Toxicity** 

#### **Component Information**

Water

CAS No 7732-18-5

LD50/oral/rat = > 90 mL/kg Oral LD50 Rat

**LD50/oral/mouse** = No information available

**LD50/dermal/rabbit** = No information available

Product code: Z1377 Product name: Sodium Chloride Page 5/11 Solution 0.9 Percent (Normal Saline),

**LD50/dermal/rat** = No information available

LC50/inhalation/rat = No information available LC50/inhalation/mouse = No information available

Other LD50 or LC50information = No information available

Sodium Chloride

CAS No 7647-14-5

LD50/oral/rat = 3 g/kg Oral LD50 Rat

LD50/oral/mouse = 4 g/kg

**LD50/dermal/rabbit** = > 10 g/kg Dermal LD50 **LD50/dermal/rat** = No information available

**LC50/inhalation/rat** = >42 g/m³ Inhalation LC50 Rat 1 h **LC50/inhalation/mouse** = No information available

Other LD50 or LC50information = No information available

#### **Product Information**

LD50/oral/rat =

Value - Acute Toxicity = No information available

LD50/oral/mouse =

**Value - Acute Tox =** No information available

LD50/dermal/rabbit

**Value - Acute Toxicity =** No information available

LD50/dermal/rat

**VALUE - Acute Tox =** No information available

LC50/inhalation/rat

**VALUE-Vapor** = No information available

**VALUE-Gas** = No information available

**VALUE-Dust/Mist** = No information available

LC50/Inhalation/mouse

**VALUE-Vapor** = No information available

**VALUE - Gas =** No information available

**VALUE - Dust/Mist =** No information available

**Symptoms** 

**Skin Contact:** May cause skin irritation.

**Eye Contact:** May cause eye irritation.

**Inhalation** Inhalation of high concentrations of mist or vapor may cause respiratory tract

irritation.

**Ingestion** May cause gastrointestinal disturbances. May cause dehydration.

**Aspiration hazard** No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Chronic Toxicity** No information available.

**Sensitization:** No information available.

Product code: Z1377 Product name: Sodium Chloride Page 6 / 11

Solution 0.9 Percent (Normal Saline),

Mutagenic Effects: For Sodium Chloride:

Experiments with bacteria and/or yeast have shown mutagenic effects

May affect genetic material

Mutagenic effects in mammalian somatic cells

Carcinogenic effects: Not considered carcinogenic.

Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Water	7732-18-5	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed
Sodium Chloride	7647-14-5	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity No data is available

Reproductive Effects: No information available
Developmental Effects: No information available
Teratogenic Effects: No information available

**Specific Target Organ Toxicity** 

STOT - single exposure STOT - repeated exposure

Target Organs:

No information available. No information available. No information available.

## 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

**Ecotoxicity effects:** Aquatic environment.

Sodium Chloride - 7647-14-5

Fish 5560 - 6080 mg/L LC50 Lepomis macrochirus 96 h flow-through 1 12946 mg/L

LC50 Lepomis macrochirus 96 h static 1 6020 - 7070 mg/L LC50 Pimephales promelas 96 h static 1 7050 mg/L LC50 Pimephales promelas 96 h semi-static 1 6420 - 6700 mg/L LC50 Pimephales promelas 96 h static 1 4747 - 7824 mg/L

LC50 Oncorhynchus mykiss 96 h flow-through 1

Crustacea 1000 mg/L EC50 Daphnia magna 48 h 340.7 - 469.2 mg/L EC50 Daphnia magna

48 h

Persistence and degradability: No information available

**Bioaccumulative potential:** No information available.

Mobility in soil

No information available

Other adverse effects No information available.

#### 13. DISPOSAL CONSIDERATIONS

# **Disposal Methods**

#### Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

### Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Component	CAS No	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Water	7732-18-5	None	None	None	None
Sodium Chloride	7647-14-5	None	None	None	None

## 14. TRANSPORT INFORMATION

DOT

**UN-No:** Not Regulated

**Proper Shipping Name:** No information available **Hazard Class** No information available **Subsidiary Class** No information available Packing group: No information available Emergency Response Guide No information available

Number

**Marine Pollutant** No data available No information available DOT RQ (lbs): **Special Provisions** No Information available Symbol(s): No information available **Description:** No information available

TDG (Canada)

UN-No: Not Regulated

**Proper Shipping Name:** No information available **Hazard Class** No information available No information available **Subsidiary Risk: Packing Group:** No information available **Marine Pollutant** No Information available **Description:** No information available

ADR

**UN Number** Not regulated

**Proper Shipping Name:** No information available Transport hazard class(es) No information available Packing group No information available **Subsidiary Risk:** No information available

**IMDG** 

Not Regulated UN-No:

No information available **Proper Shipping Name: Hazard Class:** No information available **Subsidiary Risk:** No information available **Packing Group:** No information available **Marine Pollutant** No information available

Product code: Z1377 Product name: Sodium Chloride Solution 0.9 Percent (Normal Saline),

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RID

UN Number Not Regulated

Proper Shipping Name:
Transport hazard class(es)
Subsidiary Risk:
Packing group

No information available
No information available
No information available

ICAO (air)

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class
Subsidiary Risk:
Packing Group:

No information available
No information available
No information available

IATA

UN Number Not Regulated

Proper Shipping Name:
Transport hazard class(es)
Subsidiary Risk:
Packing group
Precautionary Statements No information available
No information available
No information available
No information available

Response

**Special Provisions** No information available

#### 15. REGULATORY INFORMATION

#### International Inventories

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia (AICS)	EINECS-No.
Water	7732-18-5	PresentACTIV E	Present KE-35400	Present	Not present	Present	Present	Present 231-791-2
Sodium Chloride	7647-14-5	PresentACTIV E	Present KE-31387	Present	Present (1)-236	Present	Present	Present 231-598-3

## **U.S. Regulations**

Sodium Chloride

FDA - Food Additives Generally Recognized as Safe (GRAS): 21 CFR 182.70,21 CFR 182.90

FDA - 21 CFR - Total Food Additives 100.155, 101.22, 101.61, 131.111, 131.112, 131.160, 131.162, 131.170, 133.106, 133.113,

- List Sourced from EAFUS 133.121, 133.123, 133.124, 133.127, 133.129, 133.133, 133.136, 133.138, 133.141,

133.147, 133.150, 133.153, 133.155, 133.156, 133.162, 133.165, 133.169, 133.173, 133.179, 133.181, 133.182, 133.183, 133.184, 133.186, 133.187, 133.188, 133.189, 133.190, 133.195, 136.110, 137.180, 139.110, 139.150, 145.110, 145.130, 150.110, 155.120, 155.130, 155.190, 155.191, 155.194, 155.200, 155.201, 155.3, 156.145, 156.3, 158.170, 161.130, 161.145, 161.170, 161.173, 161.190, 163.111, 163.112, 163.113, 163.123, 163.130, 166.110, 168.130, 168.140, 168.160, 168.180, 169.115, 169.140,

169.150, 172.177, 172.430, 172.490, 172.840, 172.861, 182.1, 182.70, 182.90

# California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

### Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

### Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Component	CAS No	Carcinogen	Developmental Toxicity	Male	Female
				Reproductive	Reproductive

Product code: Z1377 Product name: Sodium Chloride Solution 0.9 Percent (Normal Saline).

				Toxicity	Toxicity:
Water	7732-18-5	Not Listed	Not Listed	Not Listed	Not Listed
Sodium Chloride	7647-14-5	Not Listed	Not Listed	Not Listed	Not Listed

#### **CERCLA/SARA**

Component	CAS No	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Water	7732-18-5	None	None	None	None	None
Sodium Chloride	7647-14-5	None	None	None	None	None

#### U.S. TSCA

Component		` '	TSCA 8(d) -Health and Safety Reporting
Water	7732-18-5	Not Applicable	Not Applicable
Sodium Chloride	7647-14-5	Not Applicable	Not Applicable

### Canada

#### WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Not a dangerous product according to HPR classification criteria.

Component Water 7732-18-5 ( 99.1 ) Sodium Chloride 7647-14-5 ( 0.9 ) WHMIS 2015 Hazard Classification
Not a dangerous product according to HPR classification criteria

Not a dangerous product according to HPR classification criteria

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

### **DSL/NDSL**

Component	CAS No	Canada (DSL)	Canada (NDSL)
Water	7732-18-5	Present	Not Listed
Sodium Chloride	7647-14-5	Present	Not Listed

Component	CAS No	CEPA Schedule I - Toxic Substances
Water	7732-18-5	Not listed
Sodium Chloride	7647-14-5	Not listed
Component	CAS No	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Water	7732-18-5	Not listed
Sodium Chloride	7647-14-5	Not listed

### **EU Classification**

#### EU GHS - SV - CLP 1272/2008

Product code: Z1377

Component	CAS No	EU GHS - SV - CLP (1272/2008)

Product name: Sodium Chloride Solution 0.9 Percent (Normal Saline), Sterile, Full Testing, USP

Water	7732-18-5	
Sodium Chloride	7647-14-5	

#### EU - CLP (1272/2008)

### R-phrase(s)

not determined (not applicable)

#### S -phrase(s)

none

Component	CAS No	Concentration Limits:	Safety Phrases
Water	7732-18-5	No information	
Sodium Chloride	7647-14-5	No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

### Indication of danger:

None

### **16. OTHER INFORMATION**

Preparation Date: 12/30/2019
Revision date Not applicable
Prepared by: Sonia Owen

Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

#### **End of Safety Data Sheet**

Product code: Z1377

**Product name:** Sodium Chloride Solution 0.9 Percent (Normal Saline), Sterile, Full Testing, USP