



Effective Date: 01/01/13
Replaces Revision: 11/09/06

NON-EMERGENCY TELEPHONE
610-866-4225

24-HOUR CHEMTREC EMERGENCY TELEPHONE
800-424-9300

SDS – SAFETY DATA SHEET

1. Identification

Product Identifier: SODIUM CHLORIDE SOLUTION

Synonyms: Saline Solution

Chemical Formula: NaCl

Recommended Use of the Chemical and Restrictions On Use: Laboratory Reagent

Manufacturer / Supplier: Puritan Products; 2290 Avenue A, Bethlehem, PA 18017 **Phone:** 610-866-4225

Emergency Phone Number: 24-Hour Chemtrec Emergency Telephone 800-424-9300

2. Hazard(s) Identification

Classification of the Substance or Mixture:

Acute toxicity, Oral (Category 6.1)

Eye irritation (Category 6.4A)

Risk Phrases:

Symbol: Xi

R41: Risk of serious damage to eyes.

R43: May cause sensitization by skin contact.

Label Elements:

Trade Name: SODIUM CHLORIDE SOLUTION

Signal Word: Warning



Hazard Statements:

H303: May be harmful if swallowed.

H316: Causes mild skin irritation.

Precautionary Statements:

None

3. Composition / Information on Ingredients

CAS No.: 7647-14-5

EC Number: 231-598-3

Molecular Weight: 58.44 g/mol

Ingredient	CAS Number	EC Number	Percent	Hazardous	Chemical Characterization
Sodium Chloride	7647-14-5	231-598-3	0 – 26%	Yes	Substance
Water	7732-18-5	231-791-2	74 - 100%	No	Mixture

4. First-aid Measures

Inhalation: Remove to fresh air. Get medical attention for any breathing difficulty.

Ingestion: If large amounts were swallowed, give water to drink and get medical advice.

Skin Contact: Wash exposed area with soap and water. Get medical advice if irritation develops.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.

5. Fire-fighting Measures

Fire: Not considered to be a fire hazard.

Explosion: Not considered to be an explosion hazard.

Fire Extinguishing Media: Use any means suitable for extinguishing surrounding fire.

Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures: Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

Environmental Precautions and Methods and Materials for Containment and Cleaning Up: Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal. Small amounts of residue may be flushed to sewer with plenty of water.

7. Handling and Storage

Precautions for Safe Handling and Conditions for Safe Storage, Including Any Incompatibilities: Keep in a tightly closed container. Protect from physical damage. Store in a cool, dry, ventilated area away from sources of heat, moisture and incompatibilities. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

8. Exposure Controls / Personal Protection

Airborne Exposure Limits: None established.

Ventilation System: In general, dilution ventilation is a satisfactory health hazard control for this substance. However, if conditions of use create discomfort to the worker, a local exhaust system should be considered.

Personal Respirators (NIOSH Approved): Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Skin Protection: Wear protective gloves and clean body-covering clothing.

Eye Protection: Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance: Clear, colorless liquid

Odor: Odorless

Odor Threshold: Not determined

pH: 6.7 - 7.3 (aqueous solution)

% Volatiles by volume @ 21C (70F): 0

Melting Point: 801C (1474F)

Boiling Point / Boiling Range: 1413C (2575F)

Flash Point: No information found

Evaporation Rate (BuAc=1): No information found

Flammability: Not applicable

Upper / Lower Flammability or Explosive Limits: Not applicable

Vapor Pressure (mm Hg): 1.0 @ 865C (1589F)

Vapor Density (Air=1): 2.1650 g / cm³

Relative Density: 2.1650 g/cm³

Solubility: 36g/100cc water @ 20C (68F)

Partition Coefficient: n-octanol / water: No data available

Auto-ignition Temperature: No data available

Decomposition Temperature: No data available

Viscosity: No data available

10. Stability and Reactivity

Reactivity and / or Chemical Stability: Stable under ordinary conditions of use and storage. Hygroscopic.

Possibility of Hazardous Reactions and Conditions to Avoid: Excessive heat, incompatibles.

Incompatible Materials: Lithium, bromine trifluoride, strong oxidizing agents.

Hazardous Decomposition Products: When heated to above 801C (1474F) it emits toxic fumes of chloride and sodium oxide.

11. Toxicological Information

Emergency Overview: WARNING! CAUSES EYE IRRITATION.

Potential Health Effects:

Inhalation: May cause mild irritation to the respiratory tract.

Ingestion: Very large doses can cause vomiting, diarrhea, and prostration. Dehydration and congestion occur in most internal organs. Hypertonic salt solutions can produce violent inflammatory reactions in the gastrointestinal tract.

Skin Contact: May irritate damaged skin; absorption can occur with effects similar to those via ingestion.

Eye Contact: Causes irritation, redness, and pain. (For salt concentrations greater than the normal saline present.)

Chronic Exposure: No information found.

Aggravation of Pre-existing Conditions: No information found.

Specific Target Organ Toxicity - Single Exposure (Globally Harmonized System:) No data available.

Specific Target Organ Toxicity - Repeated Exposure (Globally Harmonized System:) No data available.

Numerical Measures of Toxicity: Cancer Lists: NTP Carcinogen

Ingredient	Known	Anticipated	IARC Category
Sodium Chloride (7647-14-5)	No	No	None
Water (7732-18-5)	No	No	None

Acute Toxicity:

Oral rat LD50 : 3000 mg/kg / Inhalation rat LC50: > 42 gm/m³ /1H. Skin rabbit LD50: > 10 gm/kg.

Investigated as a mutagen, reproductive effector.

12. Ecological Information

Ecotoxicity: This material is expected to be toxic to aquatic life.

Persistence and Degradability: Expected to be readily biodegradable.

Bioaccumulative Potential: This material is not expected to significantly bioaccumulate.

Mobility in Soil: No information found.

Other adverse effects: No information found.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Land Transport ADR/RID and GGVS/GGVE (Cross Border / Domestic)

Not regulated

Maritime Transport IMDG/GGVSea

Not regulated

Air Transport ICAO-TI and IATA-DGR

Not regulated

15. Regulatory Information

Chemical Inventory Status – Part 1

Ingredient	TSCA	EC	Japan	Australia
Sodium Chloride (7647-14-5)	Yes	Yes	Yes	Yes
Water (7732-18-5)	Yes	Yes	Yes	Yes

Chemical Inventory Status – Part 2

Ingredient	Korea	Canada		Phil.
		DSL	NDSL	
Sodium Chloride (7647-14-5)	Yes	Yes	No	Yes
Water (7732-18-5)	Yes	Yes	No	Yes

Federal, State & International Regulations - Part 1

Ingredient	SARA 302		SARA 313	
	RQ	TPQ	List Chemical	Catg.
Sodium Chloride (7647-14-5)	No	No	No	No
Water (7732-18-5)	No	No	No	No

Federal, State & International Regulations - Part 2

Ingredient	RCRA		TSCA	
	CERCLA	261.33	8(d)	
Sodium Chloride (7647-14-5)	No	No	No	
Water (7732-18-5)	No	No	No	

Chemical Weapons Convention: No		TSCA 12(b): No		CDTA: No
SARA 311/312:	Acute: Yes	Chronic: No	Fire: No	Pressure: No
Reactivity: No		Mixture / Liquid		

16. Other Information

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