Safety data sheet

ChemiPURE Sodium Chloride, ≥99%

Product name ChemiPURE Sodium Chloride, ≥99%	Catalog no. NAC05, NAC10
Synonyms Sodium chloride; common salt; NaCl	SDS revision -
CAS no. 7647-14-5	Format version / date 3 / 25 October 2026

01 PRODUCT AND COMPANY IDENTIFICATION

Product identifier	ChemiPURE Sodium Chloride, ≥99%
Product code	NAC05 (500 g); NAC10 (1 kg)
CAS number	7647-14-5
EC number	231-598-3
Recommended use	For laboratory research use only. Used as an ionic-strength modifier and in preparation of buffer solutions and culture media.
Supplier	EcoTech Biotechnology
Website	www.ecotechbiotech.com
Address	Universite Mah. İpekyolu Cad. Ata Teknokent Sitesi B Blok No: Z10, Yakutiye, Erzurum, Türkiye
Telephone	0090 544 327 34 97
SDS contact	info@ecotechbiotech.com
Emergency telephone	0090 544 327 34 97
Available	Monday-Saturday/08:00-20:00/GMT+3
Languages	Turkish/English
Outside these hours	Contact: info@ecotechbiotech.com

02 HAZARDS IDENTIFICATION

Classification	Not classified as hazardous according to Regulation (EC) No. 1272/2008 (CLP).
Label elements	No hazardous label elements required.
Symbols / pictograms	None
Signal word	None
Hazard statements	None
Precautionary statements - Prevention	Avoid dust generation and inhalation. Use normal laboratory hygiene. Wear eye protection and suitable gloves.
Precautionary statements - Response	If irritation occurs, rinse affected areas with water and seek medical advice if symptoms persist.
Other hazards	Airborne dust may mechanically irritate the eyes and respiratory tract. Large salt releases can affect local water salinity.

Composition & response

ChemiPURE Sodium Chloride, ≥99% | SAFETY DATA SHEET / SECTIONS 03-05

03 COMPOSITION / INFORMATION ON INGREDIENTS

Product name	ChemiPURE Sodium Chloride, ≥99%
Synonyms	Sodium chloride; halite; common salt; NaCl
Concentration	≥99% (purity)
Formula	NaCl
Molecular weight	58.44 g/mol
Mixture statement	Substance: sodium chloride (CAS 7647-14-5; EC 231-598-3), purity ≥99%. Minor impurities are not specified.

04 FIRST AID MEASURES

4.1 Description of first aid measures

Eye contact	Rinse carefully with water for several minutes, including beneath eyelids. Remove contact lenses if easy to do. Seek medical advice if irritation persists.
Skin contact	Wash skin with water. Remove contaminated clothing. Seek medical advice if skin irritation develops.
Inhalation	Move to fresh air. Obtain medical advice if coughing, breathing discomfort or other symptoms persist.
Ingestion	Rinse mouth with water. Give water to drink if conscious. Do not induce vomiting. Seek medical advice if symptoms occur.
Self-protection of first aider	Avoid inhaling airborne dust; wear suitable personal protective equipment.
Most important symptoms / effects	Dust may cause temporary mechanical irritation. Large ingested amounts may cause gastrointestinal discomfort.
Notes to physicians	Treat symptomatically.

05 FIREFIGHTING MEASURES

Suitable extinguishing media	Use extinguishing measures appropriate for the surrounding fire: water spray, carbon dioxide, foam or dry chemical.
Unsuitable extinguishing media	No specific restrictions identified for this non-combustible substance.
Special hazards arising from the substance or mixture	Non-combustible inorganic salt. Under fire conditions, hydrogen chloride gas and sodium oxides may form.
Explosion data	Not explosive. No specific data on sensitivity to impact or static discharge.
Advice for firefighters	Wear suitable protective equipment and self-contained breathing apparatus during firefighting.

Safe use & protection

ChemiPURE Sodium Chloride, ≥99% | SAFETY DATA SHEET / SECTIONS 06-08

06 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Ensure adequate ventilation, avoid raising dust, and wear laboratory gloves and safety glasses.
Environmental precautions	Avoid uncontrolled release of concentrated material into drains, soil or surface waters.
Methods and materials for containment and cleaning up	Collect mechanically or sweep carefully without generating dust. Transfer to a closed, labelled container.
Reference to other sections	See Sections 8 and 13.

07 HANDLING AND STORAGE

Precautions for safe handling	Use with adequate ventilation. Avoid generating airborne dust. Do not inhale dust or allow prolonged eye contact.
Conditions for safe storage	Store at room temperature (15–25 °C), tightly closed in a dry, well-ventilated area. Protect from moisture.
Container labeling	Keep in properly labelled containers with product identity and relevant handling information.

08 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

No harmonized occupational exposure limit is specified here; comply with any applicable local limits for sodium chloride or airborne particulates.

8.2 Exposure controls

Engineering measures	General ventilation is normally adequate; use local exhaust ventilation when airborne dust is generated.
Hygiene measures	Observe good laboratory hygiene. Do not eat, drink or smoke in work areas. Wash hands after handling.
Eye / face protection	Safety glasses with side shields or protective goggles complying with EN 166.
Hand protection	Wear suitable protective gloves (e.g. nitrile rubber). Inspect before use.
Skin and body protection	Laboratory coat and suitable protective clothing.
Respiratory protection	Normally not necessary with adequate ventilation. Use an appropriate particulate filter if dust exposure cannot be controlled.

Material properties

ChemiPURE Sodium Chloride, ≥99% | SAFETY DATA SHEET / SECTIONS 09-10

09 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	White crystalline solid or powder
Odor	Odorless
Odor threshold	Not applicable (odorless)
pH	Approximately 7 (aqueous solution)
Melting point / freezing point	Approximately 801 °C
Initial boiling point and boiling range	Approximately 1,413 °C
Flash point	Not applicable (inorganic solid)
Evaporation rate	Not applicable (solid)
Flammability (solid, gas)	Not flammable; non-combustible
Upper / lower flammability or explosive limits	Not applicable
Vapor pressure	No data available
Vapor density	Not applicable (solid)
Relative density	Approximately 2.16 g/cm³ at 25 °C
Solubility(ies)	Water: approximately 317 g/L at 20 °C
Partition coefficient: n-octanol / water	Not applicable to inorganic substances
Auto-ignition temperature	Not applicable
Decomposition temperature	No data available
Viscosity	Not applicable (solid)
Explosive properties	Not classified as explosive
Oxidizing properties	Not oxidizing

10 STABILITY AND REACTIVITY

Reactivity	Stable under ordinary handling conditions; hazardous reactivity is not expected.
Chemical stability	Stable at room temperature when stored dry in tightly closed containers.
Possibility of hazardous reactions	Potential exothermic reactions with reactive alkali metals (including lithium).
Conditions to avoid	Avoid excessive heat, excessive moisture and the creation of airborne dust.
Incompatible materials	Reactive alkali metals, especially lithium.
Hazardous decomposition products	Hydrogen chloride gas and sodium oxides may form under fire conditions.

Health & environment

ChemiPURE Sodium Chloride, ≥99% | SAFETY DATA SHEET / SECTIONS 11-13

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity	Not classified as acutely toxic. Oral LD50 (rat): approximately 3,000 mg/kg; dermal LD50 (rabbit): >10,000 mg/kg.
Skin corrosion / irritation	Not classified as a skin irritant; dust may cause temporary mechanical irritation.
Serious eye damage / eye irritation	Not classified as an eye irritant; dust may cause transient mechanical irritation.
Carcinogenicity	Not classified as carcinogenic; no evidence of carcinogenicity identified in routine assessments.
Reproductive toxicity	Not classified as toxic to reproduction.
STOT - SE	Not classified. Airborne dust may cause respiratory discomfort.
STOT - RE	Not classified based on available information.
Aspiration hazard	Not applicable to a solid.

11.2 Potential health effects

Ingestion: Excessive amounts may cause gastrointestinal discomfort, nausea or vomiting.
Inhalation: Dust may irritate the nose or throat.
Skin: Dust may cause mild mechanical irritation.
Eyes: Dust may cause transient mechanical irritation.

11.3 Additional information

No further product-specific toxicological data available.

12 ECOLOGICAL INFORMATION

Ecotoxicity	Fish LC50 (96 h): approximately 5,840 mg/L (Lepomis macrochirus). Daphnia magna EC50 (48 h): approximately 874 mg/L.
Persistence and degradability	Inorganic salt; biological degradation criteria are not applicable. Dissociates into sodium and chloride ions in water.
Bioaccumulative potential	Significant bioaccumulation is not expected for an inorganic salt.
Mobility in soil	Water soluble; may move in soil and aquatic systems.
Results of PBT and vPvB assessment	PBT/vPvB assessment is not applicable to this inorganic substance under REACH Annex XIII.

13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product	Dispose of unused product according to applicable national and local requirements. Avoid discharging large amounts into drains or water systems.
Contaminated packaging	Dispose of according to local regulations. Recycle only after appropriate cleaning.

Transport & reference

ChemiPURE Sodium Chloride, ≥99% | SAFETY DATA SHEET / SECTIONS 14-16

14 TRANSPORT INFORMATION

Mode	UN no.	UN proper shipping name	Hazard class	Packing group	Environmental hazards
ADR/RID	-	Not regulated	-	-	No
IMDG	-	Not regulated	-	-	No
IATA	-	Not regulated	-	-	No

15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation	Regulation (EC) No. 1907/2006 (REACH) and Regulation (EC) No. 1272/2008 (CLP). Sodium chloride: CAS 7647-14-5; EC 231-598-3. No hazardous CLP labelling required.
Environmental hazards	Not classified as hazardous to the aquatic environment under CLP.
Chemical safety assessment	No product-specific chemical safety assessment available.

16 OTHER INFORMATION

Key to abbreviations and acronyms

STOT-SE	Specific Target Organ Toxicity - Single Exposure
STOT-RE	Specific Target Organ Toxicity - Repeated Exposure
PBT	Persistent Bioaccumulative and Toxic
vPvB	very Persistent very Bioaccumulative and toxic
ADR	European Agreement concerning the international carriage of Dangerous goods by Road
CAS	Chemical Abstracts Service
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime code for Dangerous Goods
REACH	Registration, Evaluation, Authorization and restriction of Chemicals
RID	Regulations concerning the International transport of Dangerous goods by rail