Reflecta Laboratory Supplies
Glassware & Chemicals

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Material Safety Data Sheets (MSDS)

Sodium Chloride

Identification of Product

Chemical Code: CHE-S13

Chemical Name: Sodium Chloride

Chemical Grade: AR

Chemical Formula: NaCl

Chemical Weight: 58,44 g/mol

CAS No: 7647-14-5

Chemical Synonyms: Halite

Hazards Identification

REACH No: No Data Available

Signal Word:

Supplemental Hazard Information: Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Additional Hazard Information: This substanc contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Hazards statements

No Data Available

Precautionary statements

No Data Available

Composition of Chemical

Chemical Formula: NaCl

EC No 1272/2008: No Data Available

First Aid Measures

General Advice: Consult a physician. Show this safety data sheet to the doctor in attendance.

If: Inhaled: Move person into fresh air. If not breathing, give artificial respiration. Consult a physician

If: Skin Contact: Wash off with soap and plenty of water. Consult a physician

If: Eye Contac: Flush eyes with water as a precaution

If: Swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician

Important Symptoms: No Data Available

Immediate Medical Attention: No Data Available

Firefighting Measures

Extinguishing Media: Use Water spray, Alcohol-resistant foam, Dry chemical or Carbon Dioxide.

Hazards Arising: No Data Available

Advice for Firefighters: Wear self-contained breathing apparatus for firefighting if necessary

Info for Firefighting: No Data Available

Accidental Release Measures

Personal Precautions: Use personal protective equipment.
Avoid dust formation.
Avoid breathing vapours, mist or gas.
Avoid breathing dust.

Enviromental Precautions: Do not let product enter drains.

Method for Containment: Pick up and arrange disposal without creating dust.
Sweep up and shovel.
Keep in suitable, closed containers for disposal.

Handling and Storage

Personal Precautions: Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.

Enviromental Precautions: Store in cool place.
Keep container tightly closed in a dry and well-ventilated place.

Exposure Controls | Personal Protection

Derived No Effect Level (DNEL)

Workers | Application Area | Exposure Routes | Health Effect | Value

No Data Available

Consumers | Application Area | Exposure Routes | Health Effect | Value

No Data Available

Predicted No Effect Concentration (PNEC)

No Data Available

Engineering Controls: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday

Eye/Face Protection: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin Protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Full contact -
Material: Nitrile rubber. Minimum layer thickness: 0,11 mm
Break through time: 480 min. Material tested: Dermatril®

Splash contact -
Material: Nitrile rubber. Minimum layer thickness: 0,11 mm
Break through time: 480 min. Material tested: Dermatril®
Data source: KCL GmbH, D-36124. Test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario

Body Protection: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace

Respiratory Protection: 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).

Physical and Chemical Properties

Appearance: Colourless or White crystals, granules or powder

Odour: No Data Available

Odour Threshold: No Data Available

pH: No Data Available

Melting Point: Melting point/range: 801 °C

Boiling Point: 1.413 °C

Flash Point: No Data Available

Evaporation: No Data Available

Flammability: No Data Available

Upper/Lower Flammability or Explosive Limits: No Data Available

Vapour pressure: 1,33 hPa at 865 °C

Vapour density: No Data Available

Relative density: No Data Available

Water solubility: Soluble

Partition Coefficien: No Data Available

Auto-ignition Temperature: No Data Available

Decomposition Temperature: No Data Available

Viscosity: No Data Available

Explosive properties: No Data Available

Oxidizing properties: No Data Available

Other Safety Info: No Data Available

Stability and Reactivity

Reactivity: No Data Available

Chemical Stability: Stable under recommended storage conditions

Possibility of hazardous reactions: No Data Available

Conditions to Avoid: No Data Available

Incompatible Materials: Strong oxidizing agents

Hazardous Decomposition Products: Hazardous decomposition products formed under fire conditions - Hydrogen Chloride gas, Sodium Oxides

Toxicological Information

Acute Toxicity: LD50 Oral - Rat - 3.550 mg/kg
LC50 Inhalation - Rat - 1 h - > 42.000 mg/m3
LD50 Dermal - Rabbit - > 10.000 mg/kg

Skin Corrosion/Irritation: No Data Available

Serious Eye damage | Eye Irritation: No Data Available

Cell Mutagenicity: No Data Available

Carcinogenicity: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity: No Data Available

Specific Target Organ Toxicity - Single Exposure: No Data Available

Specific Target Organ Toxicity - Repeated Exposure: No Data Available

Aspiration Hazard: No Data Available

Ecological Information

Ecological Toxicity: Toxicity to fish:
LC50 - Lepomis macrochirus (Bluegill) - 5.840 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates:
NOEC - Daphnia (water flea) - 1.500 mg/l - 7 d
LC50 - Daphnia magna (Water flea) - 1.661 mg/l - 48 h

Ecological Persistence and degradability: No Data Available

Bioaccumulative Potential: No Data Available

Mobility in Soil: No Data Available

Results of PBT and vPvB Assessment: This substance contains no components considered to be either persistent, bio-accumulative and toxic (PBT), or very persistent and very bio-accumulative (vPvB) at levels of 0.1% or higher.

Other Adverse Effect: No Data Available

Disposal Considerations

Waste Treatment Methods: Product -
Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging - Dispose of as unused product.

Transport Information

UN Number: ADR/RID: -
IMDG: -
IATA: -

UN Shipping Hazard: ADR/RID: Not dangerous goods
IMDG: Not dangerous goods
IATA: Not dangerous goods

Transport Hazard Class: ADR/RID: -
IMDG: -
IATA: -

Packaging Group: ADR/RID: -
IMDG: -
IATA: -

Enviromental Hazards: ADR/RID: no
IMDG Marine pollutant: no
IATA: no

Special Precautions: No Data Available

Regulatory Information

Safety, Health and environmental regulations: This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Chemical Safety Assessment: For this product a chemical safety assessment was not carried out

Additional Info: Vomiting, Diarrhoea,
Dehydration and congestion may occur in internal organs.
Hypertonic salt solutions can produce inflammatory reactions in the gastrointestinal tract.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

RTECS: VZ4725000