

According to EEC directive 91/155/EEC

Last issue : 23.12.2009

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1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY SALT (Sodium chloride)

Trade name (common name)..... Salt (sea salt, vacuum salt or rock salt)

Chemical name Sodium chloride

Supplier The Chemistry Store
1133 Walter Price St.
Cayce, SC 29033

2. COMPOSITION/INFORMATION ON INGREDIENTS

This product is to be considered as a substance in conformity with EEC directives

• Composition :

Main constituent..... Sodium Chloride

Other constituents (impurities or additives) causing a risk None

Usual impurities..... Naturally present secondary salts such as sulphates, bromides and chlorides of calcium, magnesium, potassium or sodium)

Usual additives Anticaking agents (potassium or sodium ferrocyanide, magnesium oxide or carbonate, sodium alumino-silicate,...), food additives and nutrients (potassium fluoride, potassium iodide or iodate, sodium nitrite,...)

• Information on the substance :

Chemical identity..... Sodium chloride (NaCl)

CAS number 7647-14-5

EINECS number..... 231-598-3

Annex - I number None
(European dangerous substances list according to directive 67/548/EEC)

3. HAZARDS IDENTIFICATION

This product does not contain any hazardous components and is not classified as hazardous according to EEC Dangerous Substance Directive and Dangerous Preparation Directive.

Potential health effects :

| | |
|---|--|
| Routes of entry..... | Ingestion, inhalation, skin contact |
| Acute ingestion..... | Nausea, vomiting ; ingestion of large amounts (greater than 0.1 kg) can cause gastrointestinal upset and irritation of the stomach |
| Chronic ingestion..... | Not applicable |
| Acute inhalation..... | Slight irritation of the nose, sneezing |
| Chronic inhalation..... | Not applicable |
| Acute skin contact..... | Irritation |
| Chronic skin contact..... | Not applicable |
| Carcinogenicity..... | Not listed as a carcinogen or mutagen |
| Medical conditions aggravated by over-exposure..... | In some cases of confirmed hypertension, ingestion may result in elevated blood pressure but this applies only to salt-sensitive individuals |

4. FIRST AID MEASURES

| | |
|------------------------------|--|
| First aid for eyes..... | For eye contact, rinse thoroughly with plenty of water, lifting eyelids occasionally. Seek medical advice if irritation develops |
| First aid of inhalation..... | Not applicable |
| First aid for skin..... | Wash skin thoroughly with water and rinse carefully |
| First aid for ingestion..... | A few grams or less would not be harmful. For larger quantities, drink large amounts of water or milk. Induce vomiting in case of very excessive intake |
| Advice to physician..... | No specific recommendations |

5. FIRE-FIGHTING MEASURES

| | |
|--|---|
| Extinguishing media..... | This product is not flammable. Use all media appropriate to the surrounding fire |
| Unsuitable extinguishing media..... | None |
| Special exposure hazard..... | In case of fire and/or explosion do not breathe fumes |
| Hazardous decomposition/combustion products..... | Toxic fumes may be produced under fire conditions |
| Protective equipment..... | A self-contained breathing apparatus with a full facepiece operated in the pressure demand or positive-pressure mode is recommended |

6. ACCIDENTAL RELEASE MESURES

| | |
|--------------------------------|---|
| Personal precautions..... | No specific recommendations |
| Environmental precautions..... | Collect as much as possible in a clean container for (preferable) reuse or disposal |
| Methods of cleaning up..... | Vacuum or sweep up and put it into a container for proper disposal. Rinse remnant with plenty of water |

7. HANDLING AND STORAGE

| | |
|------------------------------------|---|
| Handling..... | No specific recommendations |
| Fire and explosion prevention..... | Not applicable |
| Storage requirements..... | Store in a dry place (relative humidity = 75 % maximum) to avoid salt caking and becoming hard. Special sensitivity : contact with strong acids ; under conditions of high heat, sodium chloride may react with lithium to yield elemental sodium which intensifies fire conditions |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| | |
|----------------------|--|
| Exposure limits..... | No exposure limit has been established |
|----------------------|--|

Personal protection :

| | |
|---|---|
| Respiratory and ventilation requirements..... | Dust collection equipment may be employed |
| Eye protection requirements..... | Safety glasses should be worn in dusty areas |
| Skin and hand protection requirements..... | Normal work gloves are adequate. Protective clothing may be worn in dusty areas, but is generally not required. Warm water showering and hand washing is suggested after working in extremely dusty areas |

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---------------------|---|
| Physical state..... | Solid |
| Appearance..... | Usually occurs as a mixture of different size crystals |
| Colour..... | White to grey or brownish, according to the type and the origin of salt |
| Odour..... | None |
| Boiling point..... | 1465°C |

| | |
|---|---|
| Melting point | 801°C |
| Flash point | Not applicable |
| Flammability..... | Not flammable |
| Autoignition temperature..... | Not applicable |
| Explosive properties | None |
| Oxidizing properties | Not applicable |
| Vapour pressure | Not applicable |
| Density (NaCl crystal) | 2.16 g/cm ³ (20°C) |
| Bulk density | Usually 1.0 - 1.25 g/cm ³ according to grain size and type of salt |
| Molecular weight..... | 58.45 g |
| pH value..... | 7 ± 2 (100 g/l solution) |
| Solubility in water | 358 g NaCl/kg H ₂ O at 20°C |
| Solubility in other solvents..... | Soluble in glycerol |
| Partition coefficient n-octanol/water.... | log Pow = - 3,0 (calculated) |
| Relative vapour density | Not applicable |
| Viscosity | Not applicable |

10.STABILITY AND REACTIVITY

| | |
|---------------------------------------|---|
| Stability..... | Stable under recommended storage and handling conditions (see section 7) |
| Incompatibilities/conditions to avoid | Salt reacts violently with BrF ₃ Avoid contact with strong acids |
| Materials to avoid..... | Metals (except stainless steel) |
| Hazardous decomposition products... | Heating at high temperatures can produce toxic fumes May evolve chlorine gas when in contact with strong acids |

11. TOXICOLOGICAL INFORMATION

Acute toxicity
 Oral LD50 (rat) 3.75 g/kg

Irritation
 Eyes Irritating to eyes

12. ECOLOGICAL INFORMATION

Biodegradability Stable

Bioaccumulation No

Ecotoxicity/Environmental degradation Effects, only for large amounts of salt, on plants (metabolic disturbance) and on soils (mineral imbalance)

13. DISPOSAL CONSIDERATIONS

Product No specific recommendations

Contaminated packaging No specific recommendations

Waste disposal method For disposal of this material as a waste, act in accordance with all applicable national and local waste management regulations

14. TRANSPORT INFORMATION**Land transport :**

| | | | |
|---------------------------|----------------|------------------------------|--------------|
| ADR class | Not restricted | ADR item number | Not relevant |
| RID class | Not restricted | RID item number | Not relevant |
| Hazard identification No. | Not relevant | Substance identification No. | Not relevant |
| TREM-Card | Not relevant | UN number | None |
| Proper shipping name | Not relevant | | |

Sea transport

| | | | |
|------------------------|----------------|-----------------|----------------|
| IMO/IMDG code | Not restricted | Class | Not restricted |
| Packing group | Not relevant | UN number | None |
| EMS | Not relevant | MFAG | Not relevant |
| Marine pollutant | No | | |
| Proper shipping name | Not relevant | | |

Air transport

IATA/ICAO-DGR

UN number None

Class..... Not restricted

Packing group Not relevant

Proper shipping name Not relevant

15.REGULATORY INFORMATION

Chemical identity..... Sodium chloride (NaCl)

Labelling according to EEC directives

Annex-I number None

Symbol (s) None

Risk phrase(s) None

Safety phrase(s) None

16.OTHER INFORMATION

All statements, technical information and recommendations contained herein only concern the above mentioned product. They are the best of our knowledge, reliable and accurate ; however no warranty either expressed or implied is made with respect thereto, nor will any liability be assumed for damages resultant from the use of the materiel described.

It is the responsibility of the user to comply with all applicable national and local laws and regulations. It remains also the responsibility of the user to make sure that the information is appropriate and complete for his special use of this product. The user should consider the health hazards and safety information provided herein as a guide and should take the necessary steps to instruct employees and to develop work practice procedures to ensure a safe work environment.

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