# SAFETY DATA SHEET

HUCK SALT SODIUM CHLORIDE **MSDS DATE:** 02/08/2017

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Sodium Chloride
**SYNONYMS:** Salt; Road Salt; Sea Salt

**MANUFACTURER:** Huck Salt
**DIVISION:** Salt Processing
**ADDRESS:** 5033 Austin Hwy
Fallon, NV 89406
1-775-423-2055
www.hucksalt.com

**EMERGENCY PHONE:** 1-775-217-6309
**CHEMTREC PHONE:** 1-800 -424-9300
**OTHER CALLS:** 1-703-527-3887
**FAX PHONE:** 1-775-423-0467

**CHEMICAL NAME:** Sodium Chloride
**CHEMICAL FORMULA:** NaCl

**SECTION 1 NOTES: N/A**

## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

| **INGREDIENT:** | **CAS NO.** | **% WT** |
|---|---|---|
| Sodium Chloride | 7647-14-5 | 100 |

**TOXICOLOGICAL DATA ON INGREDIENTS:** Sodium Chloride: ORAL (LD50): Acute: 3000mg/kg [Rat.]. 4000mg/kg [Mouse]. DERMAL (LD50): Acute: > 10000 mg/kg [Rabbit}. DUST (LC50): Acute: >42000 mg/m 1 hours [Rat].

**SECTION 2 NOTES: N/A**

## SECTION 3: HAZARDS IDENTIFICATION

**POTENTIAL ACUTE HEALTH EFFECTS:** Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestions, of inhalation.

**POTENTIAL CHRONIC HEALTH EFFECTS:**
CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Mutagenic for mammaliam somatic cells. Mutagenic for bacteria and/or yeast. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure is not known to aggravate medical condition.

**SECTION 3 NOTES:** N/A

## SECTION 4: FIRST AID MEASURES

**EYES:** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.

**SKIN:** Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.

**SERIOUS SKIN CONTACT:** Not available.

**INGESTION:** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an uncouscious person. Loosen tight clothing such as a collar, tie, belt or waist band. Get medical attention if symptoms appear.

**INHALATION:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.

**SECTION 4 NOTES:** N/A

## SECTION 5: FIRE-FIGHTING MEASURES

**FLAMMABILITY OF THE PRODUCT:** Non-flammable.

**AUTO-IGNITION TEMPERATURE:** Not applicable.

**FLAMMABLE LIMITS:** Not applicable.

**PRODUCTS OF COMBUSTION:** Not applicable.

**FIRE HAZARDS IN PRESENCE OF VARIOUS SUBSTANCES:** Risks of explosion of the product in presence of mechanical impact: Not available. Risk of explosion of the product in presence of static discharge: Not available.

**FIRE FIGTHING MEDIA AND INSTRUTIONS:** Not applicable.

**SPECIAL REMARKS ON FIRE HAZARDS:** When to decomposition it emits toxic fumes.

**SPECIAL REMARKS ONEXPLOSION HAZARDS:** Electrolysis of sodium chloride in presence of nitrogenous compounds to produce chlorine may lead to formation of explosive nitrogen trichloride. Potentially explosive reaction with dichloromaleic anhydride + urea.

**SECTION 5 NOTES:** N/A

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**ACCIDENTAL RELEASE MEASURES:** Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

**SECTION 6 NOTES:** N/A

## SECTION 7: HANDLING AND STORAGE

**STORAGE:** Keep container tightly closed. Keep container in a cool, well-ventilated area. Hygroscopic.

**PRECAUTIONS:**Keep locked up. Do not ingest. Do not breathe dust. Avoid contact with eyes. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container of the label. Keep away from incompatibles such as oxidizing agents, acids.

**SECTION 7 NOTES:** N/A

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**PERSONAL PROTECTION:** Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves

**PERSONAL PROTECTION IN CASE OF LARGE SPILL:** Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

**EXPOSURE GUIDELINES:** Not available.

**SECTION 8 NOTES:** N/A

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** Solid. (solid crystalline powder)

**ODOR:** Slight.

**PHYSICAL STATE:** Saline.

**COLOR:** White.

**MOLECULAR WEIGHT:** 58.44g/mole

**pH AS SUPPLIED:** 7 [Neutral.]

**BOILING POINT:**
**F:** 2575.4 **C:** 1413
**MELTING POINT:**
**F:** 1473.8 **C:** 801

**CRITICAL TEMPERATURE:** Not available.

**VAPOR PRESSURE (mmHg):** Not applicable.

**VAPOR DENSITY (AIR = 1):** Not applicable.

**SPECIFIC GRAVITY (H2O = 1):** 2.165 (Water =1)

**VOLATILITY:** Not available.

**ODOR THRESHOLD:** Not Available.

**WATER/OIL DIST. COEFF.:** Not available.

**IONICITY (IN WATER):** Not available.

**DISPERSION PROPERTIES:** See solubility in water.

**SOLUBILITY IN WATER:** Easily soluble in cold water, hot water. Soluble in glycerol, and ammonia. Very slightly soluble in alcohol, Insoluble in Hydrochloric acid.

**SECTION 9 NOTES:** N/A

## SECTION 10: STABILITY AND REACTIVITY

**STABILITY:** The product is stable.

**CONDITIONS TO AVOID (STABILITY):** Incompatible materials, high temperatures.

**INCOMPATIBILITY (MATERIAL TO AVOID):** Reactive with oxidizing agents, metals, acids.

**CORROSIVITY**: Not considered to be corrosive for glass.

**SPECIAL REMARKS ON REACTIVITY:** Hygroscopic. Reacts with most nonnoble metals such as iron or steel, building materials (such as cement). Sodium chloride is rapidly attacked by bromine trifluride. Volient reaction with lithium.

**SPECIAL REMARKS ON CORROSIVITY:** Not available.

**POLYMERIZATIONS:** Will not occur.

**SECTION 10 NOTES:** N/A

## SECTION 11: TOXICOLOGICAL INFORMATION

**ROUTES OF ENTRY:** Inhalation. Ingestion.

**TOXICITY TO ANIMALS:** WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (LD50): 3000mg/kg [Rat.]. Acute dermal toxicity (LD50): >10000mg/kg [Rabbit]. Acute toxicity of the dust (LC50):.42000 mg/m3 1 hours [Rat].

**CHRONIC EFFECTS TO HUMANS:** MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast.

**OTHER TOXIC EFFECTS ON HUMANS:** Slightly hazadardous in case of skin contact (irritant), of ingestion, of inhalation.

**SPECIAL REMARKS ON TOXICITY TO ANIMALS:** Lowest Published Lethal Dose (LDL) [Man] – Route: Oral; Dose: 1000mg/kg

**SPECIAL REMARKS ON CHRONIC EFFECTS ON HUMANS:** Causes adverse reproductive effects in humans (fetotoxicity, abortion,) by intraplacental route. High intake of sodium chloride, whether from occupational exposure or in the diet, may increase risk of TOXEMIA OF PREGNANCY in susceptible women (Bishop, 1978). Hypertonic sodium chloride solutions have been used to induce abortion in late pregnancy by direct infusion into the uterus (Brown et al, 1972), but this route of administration is not relevant to occupational exposures. May cause adverse reproductive effects and birth defects in animals, particularly rats and mice (fetoxicity, abortion, musculoskeletal abnormalities, and maternal effects (effects on ovaries, fallopian tubes) by oral, intraperitoneal, intraplacental, intrauterine, parenteral, and subcutaneous routes. While sodium chloride has been used as a negative control in some reproductive studies, it has also been used as an example that almost any chemical can cause birth defects in experimental animals if studied under the right conditions (Nishimura & Miyamoto, 1969). In experimental animals, sodium chloride has caused delayed effects on newborns, has been fetotoxic, and has caused birth defects and abortions in rats and mice (RTECS, 1997). May affect genetic material (mutagenic).

**SPECIAL REMARKS ON OTHER TOXIC EFFECTS ON HUMANS:** Acute Potential Health Effects: Skin: May cause skin irritation. Eyes: Causes eye irritation. Ingestion: Ingestion of large quantities can irritate the stomach (as in overuse of salt tablets) with nausea and vomiting. May affect behavior (muscle spasicity/contraction, somnolence), sense organs, metabolism, and cardiovascular system. Continued exposure may produce dehydration, internal organ congestion, and coma. Inhalation: Material is irritating to mucous membranes and upper respiratory tract.

**SECTION 11 NOTES:** N/A

## SECTION 12: ECOLOGICAL INFORMATION

**ECOTOXICITY:** Not available.

**BOD5 AND COD:** Not available.

**PRODUCTS OF BIODEGRADATION:** Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**TOXICITY OF THE PRODUCTS OF BIODEGRADATION:** The product itself and its products of degradation are not toxic.

**SPECIAL REMARKS ON THE PRODUCTS OF BIODEGRADATION:** Not available.

**SECTION 12 NOTES:** N/A

## SECTION 13: DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL METHOD:** Waste must be disposed of in accordance with federal, state and local environmental control regulations.

**SECTION 13 NOTES:** N/A

## SECTION 14: TRANSPORT INFORMATION

**DOT CLASSIFICATION:** Not a DOT controlled material (United States).

**IDENTIFICATION:** Not applicable.

**SPECIAL PROVISIONS FOR TRANSPORT:** Not applicable.

**SECTION 14 NOTES:**

## SECTION 15: REGULATORY INFORMATION

**U.S. FEDERAL AND STATE REGULATIONS**
**TSCA (TOXIC SUBSTANCE CONTROL ACT):** Sodium chloride

**INTERNATIONAL REGULATIONS: EINECS:** This product is on the European Inventory of Existing Commercial Chemical Substances.

**OTHER CLASSIFICATIONS:**

WHMIS (CANADA): Not controlled under WHMIS.

**DSCL (EEC):** R40-Possible risks of irreversible effects. S24/25-Avoid contact with skin and eyes.

HMIS (USA):
Health Hazard: 1
Fire Hazard: 0
Reactivity: 0
Personal Protection: E

**NATIONAL FIRE PROTECTION ASSOCIATION (USA):**
Health: 1
Flammability: 0
Reactivity: 0

**PROTECTIVE EQUIPMENT:** Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Splash goggles.

**SECTION 15 NOTES:** N/A

## SECTION 16: OTHER INFORMATION

**REFERENCES:** -Hawley, G.G.. The Condensed Chemical Dictionary, 11e ed., New York N.Y., Van Nostrand Reinold, 198. –SAX, N.I. Dangerous Properties of Industrial Materials. Toronto, Van Nostrand Reinold, 6e ed. 1984. –The Sigma-Aldrich Library of Chemical Safety Data, Edition II.

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