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**** MATERIAL SAFETY DATA SHEET ****

Sodium Chloride, Reagent ACS (Crystals), 99+% (Titr.)
 01480

**** SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION ****

MSDS Name: Sodium Chloride, Reagent ACS (Crystals), 99+% (Titr.)
 Catalog Numbers: AC424290000, AC424290010, AC424290030, AC424290250, AC424295000
 Synonyms: Common salt; Halite; Rock salt; Saline; Salt; Sea salt; Table salt.
 Company Identification (Europe): Acros Organics BVBA
 Janssen Pharmaceuticaalaa 3a
 2440 Geel, Belgium
 Company Identification (USA): Acros Organics
 One Reagent Lane
 Fairlawn, NJ 07410
 For information in North America, call: 800-ACROS-01
 For information in Europe, call: 0032(0) 14575211
 For emergencies in the US, call CHEMTREC: 800-424-9300
 For emergencies in Europe, call: 0032(0) 14575299

**** SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS ****

CAS#	Chemical Name	%	EINECS#
7647-14-5	Sodium chloride	99+%	231-598-3

Hazard Symbols: None Listed.
 Risk Phrases: None Listed.

**** SECTION 3 - HAZARDS IDENTIFICATION ****

EMERGENCY OVERVIEW

Appearance: colorless or white solid.
 Caution! May cause respiratory tract irritation. May cause eye and skin irritation. May cause digestive tract irritation with nausea, vomiting, and diarrhea.
 Target Organs: Blood, lungs, male reproductive system.

Potential Health Effects

Eye: May cause eye irritation.
 Skin: May cause skin irritation.
 Ingestion: Ingestion of large amounts may cause gastrointestinal irritation. Ingestion of large amounts may cause nausea and vomiting, rigidity or convulsions. Continued exposure can produce coma, dehydration, and internal organ.
 Inhalation: May cause respiratory tract irritation.
 Chronic: No information found.

**** SECTION 4 - FIRST AID MEASURES ****

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
 Skin: Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.
 Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid. Wash mouth out with water.
 Inhalation: Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.
 Notes to Physician: Treat symptomatically.

**** SECTION 5 - FIRE FIGHTING MEASURES ****

General Information: Wear appropriate protective clothing to prevent contact with skin and eyes. Wear a self-contained breathing apparatus (SCBA) to prevent contact with thermal decomposition products. Substance is noncombustible.
 Extinguishing Media: Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.
 Autoignition Temperature: Not available.
 Flash Point: Not available.
 Explosion Limits, lower: Not available.

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Explosion Limits, upper: Not available.
 NFPA Rating: (estimated) Health: 1; Flammability: 0; Instability: 0

**** SECTION 6 - ACCIDENTAL RELEASE MEASURES ****

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions.

**** SECTION 7 - HANDLING and STORAGE ****

Handling: Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Do not ingest or inhale.

Storage: Store in a cool, dry, well-ventilated area away from incompatible substances.

**** SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION ****

Engineering Controls: Good general ventilation should be sufficient to control airborne levels. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Sodium chloride	none listed	none listed	none listed

OSHA Vacated PELs: Sodium chloride.
 No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Wear safety glasses with side shields.
 Skin: Wear appropriate gloves to prevent skin exposure.
 Clothing: Wear appropriate protective clothing to minimize contact with skin.
 Respirators: A NIOSH/MSHA approved air purifying dust or mist respirator or European Standard EN 149.

**** SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ****

Physical State: Solid
 Color: colorless or white
 Odor: odorless
 pH: Not available.
 Vapor Pressure: Not available.
 Vapor Density: Not available.
 Evaporation Rate: Not available.
 Viscosity: Not available.
 Boiling Point: 2575 deg F
 Freezing/Melting Point: 1474 deg F
 Decomposition Temperature: Not available.
 Solubility in water: Soluble in water
 Specific Gravity/Density: 2.165
 Molecular Formula: NaCl
 Molecular Weight: 58.4428

**** SECTION 10 - STABILITY AND REACTIVITY ****

Chemical Stability: Stable
 Conditions to Avoid: High temperatures.
 Incompatibilities with Other Materials: Reacts with most nonnoble metals such as iron or steel, building materials (such as cement), bromine, or trifluoride. Potentially explosive reaction with dichloromaleic anhydride + urea. Electrolysis of mixtures with nitrogen compounds may form explosive nitrogen trichloride.
 Hazardous Decomposition Products: Toxic fumes of sodium oxide.
 Hazardous Polymerization: Has not been reported.

**** SECTION 11 - TOXICOLOGICAL INFORMATION ****

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RTECS#: CAS# 7647-14-5: VZ4725000
 LD50/LCS0: Not available.
 Carcinogenicity: Sodium chloride -
 Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.
 Epidemiology: No information reported.
 Teratogenicity: An experimental teratogen.
 Reproductive Effects: Human reproductive effects by intraplacental route: terminates pregnancy. Experimental reproductive effects.
 Neurotoxicity: No information reported.
 Mutagenicity: Human mutation data reported.
 Other Studies: No information reported.

**** SECTION 12 - ECOLOGICAL INFORMATION ****

Ecotoxicity: No information found.

**** SECTION 13 - DISPOSAL CONSIDERATIONS ****

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.
 RCRA P-Series: None listed.
 RCRA U-Series: None listed.

**** SECTION 14 - TRANSPORT INFORMATION ****

US DOT: No information available
 Canadian TDG: No information available.

**** SECTION 15 - REGULATORY INFORMATION ****

US FEDERAL

TSCA: CAS# 7647-14-5 is listed on the TSCA inventory. Health & Safety Reporting List. None of the chemicals are on the Health & Safety Reporting List. Chemical Test Rules. None of the chemicals in this product are under a Chemical Test Rule. Section 12b. None of the chemicals are listed under TSCA Section 12b. TSCA Significant New Use Rule. None of the chemicals in this material have a SNUR under TSCA.

SARA: CERCLA Hazardous Substances and corresponding RQs. None of the chemicals in this material have an RQ. SARA Section 302 Extremely Hazardous Substances. None of the chemicals in this product have a TPO. SARA Codes. CAS # 7647-14-5: acute. Section 313. No chemicals are reportable under Section 313.

Clean Air Act: This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone Depletors. This material does not contain any Class 2 Ozone depletors.

Clean Water Act: None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA: None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

Sodium chloride is not present on state lists from CA, PA, MN, MA, FL, or NJ.
 California No Significant Risk Level: None of the chemicals in this product are listed.
 European/International Regulations
 European Labeling in Accordance with EC Directives
 Hazard Symbols: Not available.
 Risk Phrases:

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Safety Phrases:
 WGK (Water Danger/Protection)
 CAS# 7647-14-5: 0
 United Kingdom Occupational Exposure Limits
 United Kingdom Maximum Exposure Limits

Canada

CAS# 7647-14-5 is listed on Canada's DSL List.
 This product has a WHMIS classification of D2B.
 CAS# 7647-14-5 is not listed on Canada's Ingredient Disclosure List.
 Exposure Limits

**** SECTION 16 - ADDITIONAL INFORMATION ****

MSDS Creation Date: 8/24/1997 Revision #4 Date: 8/02/2000

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.