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MSDS

MATERIAL SAFETY DATA SHEET

DATE:MAR 25,2017

Section 1 - Chemical Product

Product Name:Ammonium Chloride Synonym:Ammonium Chloratum; Ammonium Chloridum; Ammonium Muriate; Sal Ammonia; Salmiac

Section 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Chemical Name	Content
12125-02-9	Ammonium Chloride	99% MIN

Section 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Harmful if swallowed. Irritating to eyes.Hygroscopic (absorbs moisture from the air). Potential Health Effects

Eye:Causes eye irritation.

Skin:May cause skin irritation. May be harmful if absorbed through the skin.

Ingestion:May cause irritation of the digestive tract. May cause systemic toxicity with acidosis. May be harmful if swallowed.

Inhalation: If heated, dust or fume may cause respiratory tract irritation. May be harmful if inhaled.

Chronic:Prolonged or repeated skin contact may cause dermatitis.

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 immediately.

Skin:Flush skin with plenty of 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:Call a poison control center. If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation:Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Section 5 - FIRE FIGHTING MEASURES

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep fire-exposed containers cool. Substance is noncombustible. Containers may explode in the heat of a fire. May polymerize explosively when involved in a fire.

Extinguishing Media:

Substance is noncombustible; use agent most appropriate to extinguish surrounding fire. Cool containers with flooding quantities of water until well after fire is out.

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.

Provide ventilation.

Section 7 - HANDLING and STORAGE

Handling:Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Avoid ingestion and inhalation. Storage:Store in a cool, dry, well-ventilated area away from incompatible substances. Store protected from moisture. Store below 40C.

Section 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Personal Protective Equipment Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:Wear impervious gloves.

Clothing:Wear appropriate protective clothing to prevent skin exposure.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Crystalline powder Color: colorless or white Odor: odorless pH: 5.0 (10% sol at 25C) Vapor Pressure: 1 mm Hg @ 160.4C Boiling Point: 520 deg C(sublimes) Freezing/Melting Point: 328 deg C Solubility in water: 39.6% at 176F. Specific Gravity/Density: 1.53 (Water=1) Molecular Formula: NH4C1 Molecular Weight: 53.4877

Section 10 - STABILITY AND REACTIVITY

Chemical Stability:

Stable at room temperature in closed containers under normal storage and handling conditions. Hygroscopic: absorbs moisture or water from the air. Hygroscopic: absorbs moisture or water from the air.

Conditions to Avoid: Excess heat, exposure to moist air or water. Incompatibilities with Other Materials: Acids, bases, bromine trifluoride, nitrates, potassium chlorates, silver salts, carbonates, bromine pentafluoride, lead salts. Hazardous Decomposition Products: Ammonia and hydrochloric acid fumes. Hazardous Polymerization: May occur. Section 11 - TOXICOLOGICAL INFORMATION Carcinogenicity: Ammonium chloride - Not listed by ACGIH, IARC, or NTP. Other:See actual entry in RTECS for complete information. Section 12 - ECOLOGICAL INFORMATION Environmental Fate: No information found. Environmental Toxicity: 24 Hr LC50 Lepomis macrochirus (bluegill): 725 mg/L 96 Hr LC50 Cyprinus carpio (carp): 209 mg/L [static] 24 Hr EC50 water flea: 202 mg/L Section 13 - DISPOSAL CONSIDERATIONS Dispose of in a manner consistent with federal, state, and local regulations. Section 14 - TRANSPORT INFORMATION Not regulated as a hazardous material Section 15 - REGULATORY INFORMATION European/International Regulations European Labeling in Accordance with EC Directives Hazard Symbols: XN Risk Phrases: R 22 Harmful if swallowed. R 36 Irritating to eyes. Safety Phrases:S 22 Do not breathe dust. WGK (Water Danger/Protection) CAS# 12125-02-9: 1 Canada:CAS# 12125-02-9 is listed on Canada's DSL List. CAS# 12125-02-9 is listed on Canada's Ingredient Disclosure List. US FEDERAL TSCA:CAS# 12125-02-9 is listed on the TSCA inventory. 16. Other Information Label Hazard Warning: WARNING! CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. HARMFUL IF SWALLOWED OR INHALED Label Precautions:void contact with eyes, skin and clothing. Avoid breathing dust. Wash thoroughly after handling. Keep container closed. Use only with adequate ventilation.r and on behalf of HUGESTONE ENTERPRISE CO., LIMITED

Authorized Signature(s)