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MATERIAL SAFETY DATA SHEET

MANUFACTURED FOR: K & K Chemical Co.
TELEPHONE NO.: (800)958-6921
ADDRESS: 1303 Industrial Drive, Royse City, TX 75189

PRODUCT: ICE & SNOW MELT #1

MSDS Prepared By: J. Austin Maglothlin, Ph.D.

PART NUMBER(S): S-765

Revision Date: August 28, 2001

SECTION I - GENERAL

Chemical Name & Synonym: Not Applicable
Trade Name & Synonyms: ICE & SNOW MELT #1
Chemical Family: solid amide
Formula: Trade Secret

SECTION II - HAZARDOUS INGREDIENTS

Urea CAS No. 57-13-6

SECTION III - PHYSICAL AND CHEMICAL DATA

Boiling Point (°C): Not applicable
Vapor Pressure (mm Hg @ 20°C): Not applicable
Vapor Density (Air = 1): Not applicable
Specific Gravity (H₂O = 1): Not applicable
% Volatile by Volume: 0
Evaporation Rate (H₂O = 1): Not applicable
Solubility in Water: 119g per 100g at 20°C
Appearance and Odor: White granular solid with light ammonia odor
Others: 10% aqueous solution has pH of 7-10

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flammable Limits (%):
- LEL: Not applicable
- UEL: Not applicable
Flash Point (Method Used): Not applicable
Extinguishing Media: Use any appropriate for surrounding fire.
Special Fire Fighting Procedures: None
Unusual Fire & Explosion Hazards: Heating above 130°C decomposes to biuret, ammonia and nitrogen oxides. Short term exposures to smoke and gases may lead to irreversible lung injury without early signs or symptoms.

SECTION V - HEALTH HAZARD DATA

Route of Entry: Eye contact, ingestion, skin contact
Carcinogenic Assessment: Not listed
Threshold Limit Value: 10mg per m³
Effects of Overexposure: Eyes: Irritant
Ingestion: Gastrointestinal disturbances including irritation, nausea, vomiting and diarrhea. Possible CNS depression.
Skin: Slightly irritating
Emergency & First Aid Procedures: Eyes: Flush with water for 15 minutes. Get medical attention.
Ingestion: DO NOT INDUCE VOMITING. Drink 3 to 4 glasses of water. Get immediate medical attention.
Skin: Wash thoroughly with soap and water.

SECTION VI - REACTIVITY DATA

Stability: Stable. May slowly hydrolyze to ammonium carbamate, which decomposes slowly to ammonia and carbon dioxide.
Incompatibility (Materials to Avoid): Strong oxidizers, strong acids, strong bases, nitrites, sodium hypochlorite, calcium hypochlorite. React with hypochlorites to form explosive nitrogen trichloride.
Hazardous Decomposition Products: Ammonia, biuret, nitrogen oxides.
Hazardous Polymerization: Will not occur

SECTION VII - SPILL OR LEAK PROCEDURE

Steps To Be Taken In Case Material Is Released Or Spilled: Flush to sewer with large volumes of water
Waste Disposal Method: Consult with local authorities. Dispose of in accordance with all local, state and federal regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

Respiratory Protection: Normally none needed
Ventilation: Provide general or local ventilation to control nuisance dust below 15 mg per m³
Protective Gloves: Butyl rubber
Eye Protection: Safety glasses. DO NOT WEAR CONTACT LENSES WHEN WORKING WITH THIS SUBSTANCE.
Other Protective Equipment: None required

SECTION IX - SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling And Storing: Store in original containers.
Other Precautions: KEEP OUT OF REACH OF CHILDREN. Read and follow label directions.