

Kissner Salts & Chemicals

M.S.D.S.

Urea

SECTION 1: PRODUCT INFORMATION

T.D.G. Classification Not regulated.
Product Identification Number Not regulated.
CAS # 57-13-6
Packing Group Not applicable.
Product Name Urea
WHMIS Classification This is not a controlled product.
Chemical Formula NH₂CONH₃
Chemical Family Not available
Product Use Fertilizer
Available Packaging Various
Supplier Kissner Salts & Chemicals, 32 Cherry Blossom RD Cambridge, Ontario
N3H 4R7 (519) 650-9998

SECTION 2: HAZARDOUS INGREDIENTS

| <u>Hazardous Ingredients</u> | <u>CAS #</u> | <u>Percentage</u> | <u>ACGIH-TVL</u> |
|------------------------------|--------------|-------------------|------------------|
| None. | | | |

SECTION 3: PHYSICAL DATA

Physical State Solid
Appearance & Odour Odourless/ White granule
Odour Threshold No available data.
Specific Gravity) 1.33 @ 20 C
Vapour Pressure Not applicable
Vapour Density Not applicable
Evaporation Rate Not applicable
Boiling Point Decomposes @ 135 C.
Freezing Point 133 C

SECTION 4: FIRE AND EXPLOSION DATA

pH 7.2 (10% solution)
Coefficient of Water/Oil Distribution No available data.
Hazardous Conditions Not flammable
Fire Extinguishing Procedures Use self-contained breathing apparatus - ammonia and
.....cyanuric acid fumes emitted. Contain spilled material from
.....entering water streams or sewers.
Flash Point Not flammable
Upper Flammable Limit Not applicable
Lower Flammable Limit Not applicable
Auto-ignition Temperature Not combustible
Hazardous Combustion Products Thermal Decomp: Biuret, ammonia, cyanuric acid, nox.

SECTION 5: REACTIVITY DATA

Sensitivity to mechanical impact None
Sensitivity to Static Discharge None
Chemical Stability Stable
Hazardous Polymerization Not available
Conditions of Reactivity Incompatible with strong oxidizing agents: nitric acid,
hypochlorites, sodium nitrite, chromyl chloride, nitrosyl
perchlorate. Incompatible with ABS or Polyethylene. Will
cause deterioration of unplasticized PVC with long-term use.

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Hazardous Decomposition..... Ammonia compounds will yield toxic cyanate. Compounds when heated

SECTION 6: TOXICOLOGICAL PROPERTIES

Route of entry into the body Skin, Eye, Inhalation, Ingestion
Effects of acute exposure to product Skin: Prolonged exposure may cause redness or rash due
..... to mild irritation.
..... Eye: May cause redness, pain due to irritation.
..... Inhalation: High levels of dust may cause irritation to the
..... nose and throat.
..... Ingestion: May cause sore throat and abdominal pain.
Effects of chronic exposure to product..... Repeated or prolonged contact with urea containing
..... methylene diurea (anticaking agent) may cause allergic
..... contact dermatitis.
Exposure limits..... No available data
Irritancy of product No available data
Sensitization of product..... No available data
Carcinogenicity of product No available data
Reproductive toxicity No available data
Teratogenicity..... No available data
Mutagenicity..... No available data
Synergistic effects No available data
LD/50, Route, Specie..... Oral, Rat - 14300 mg/kg
..... Oral, mouse-11500mg/kg

SECTION 7: PREVENTIVE MEASURES

Personal Protective Equipment required Gloves: Rubber or Neoprene.
..... Respiratory: Respirator for dust.
..... Eye: Chemical goggles.
..... Footwear: Normal work type.
Specific Engineering controls required Use local exhaust ventilation and process enclosure if
..... necessary to control airborne dust.
Spill/Leak Procedures For dry spill, contain spill and recover all product. May be
..... transferred into any suitable container.
Waste Disposal Contact manufacturer and local government authorities.
Storage Needs Store in a dry, well ventilated area out of direct sunlight
..... and away from incompatible materials.
Handling procedures and equipment..... Handle as a dry product. Do not contaminate material with
..... equipment lubricants, etc.
Special shipping information... TDG Regulation: Not regulated.

SECTION 8: FIRST AID MEASURES

EYE CONTACT: Flush eyes with warm water for at least 20 minutes. If irritation persists, consult physician.
SKIN CONTACT Remove contaminated clothing and wash affected body area with warm water.
INGESTION If victim is conscious give two glasses of water. Do not induce vomiting. Seek medicalattention
immediately.
INHALATION Remove victim to fresh air and support breathing. Use medical oxygen if available. If breathing
..... has stopped, use rescue breathing. If heart beat is absent, commence cardiopulmonary
..... resuscitation. Seek medical attention immediately.

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| SECTION 9: PREPARATION INFORMATION |
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Prepared by.....J Browes
Emergency Phone No. (613) 996-6666 Canutec
Date June 2006

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