Material Safety Data Sheet
J. R. Simplot Company
AgriBusiness

Trade Name: Granular Urea 46-0-0
Registration No: None

SECTION 1 CHEMICAL PRODUCT AND COMPANY INFORMATION

Manufacturer or Formulator: J.R. Simplot Company
Product Name: Granular Urea 46-0-0
Common Name: 46-0-0
Chemical Type: Inorganic Chemical Fertilizer

Emergency Phone - Chemtrec: 1-800-424-9300

SECTION 2 COMPOSITION INFORMATION

Chemical Name and Synonyms C.A.S. No. Chemical Formula WT% TLV PEL
Hazardous
None listed
Non-Hazardous
This is a homogeneous granular product containing:
Urea 57-13-6 CO(NH₂)₂ 100 NE Not available

SECTION 3 HAZARDS IDENTIFICATION

Ingestion: Minimal hazard under normal conditions and use. Ingestion of large quantities may cause gastrointestinal discomfort, vomiting, weakness or other medically related problems.
Inhalation: Dusty conditions may cause mechanical aggravation to respiratory mucous membranes.
Eye Contact: Dust from this product may cause particulate discomfort to eyes.
Skin Absorption: Not normally absorbed through the skin.
Skin Contact: Slight dermal abrasion is possible with prolonged contact, especially around cuffs and collars.
Effects of Overdose: Ingestion of large doses may cause diarrhea, nausea, abdominal cramps or formation of methemoglobinemia. Seek medical attention.

SECTION 4 FIRST AID MEASURES

Ingestion: If large amount is ingested, give 2-3 glasses of water and induce vomiting. Seek medical attention.
Inhalation: Remove to fresh air. Seek medical attention if condition persists.
Eyes: Flush eyes with running water for at least 15 minutes. Seek medical attention if condition persists.
Skin: Wash with soap and water. Seek medical attention if condition persists.
Notes to Physician: Consult standard literature. Treatment based on the sound judgment of the physician and the individual reactions of the patient.

SECTION 5 FIRE FIGHTING MEASURES

Extinguishing Media: Use media suitable to extinguish source of fire.
Special Fire Fighting Procedures: Product is not combustible.
Unusual Fire and Explosion Hazards: During extremely high temperature fire conditions, the product may reach melting point and decompose to release NH₃, SOₓ, POₓ or CN.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Environmental Precautions: Keep out of water supplies, lakes, ponds, streams and rivers. This product is a fertilizer and may promote algae growth.
Steps to be taken in case material is released or spilled: Keep from entering waterways. Sweep up material and place in suitable container for use as a fertilizer or for disposal.

SECTION 7 HANDLING AND STORAGE

Precautions to be taken in handling and storing: Store in a cool, dry area. Prevent spillage and separate from strong oxidizers. Use normal safety procedures and good personal hygiene. Keep out of the reach of children.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation Protection: Adequate ventilation.
Respiratory Protection: Approved dust respirator when necessary.
Protective Clothing: Normal clean work clothing.
Eye Protection: In dusty conditions, safety glasses with side shields or goggles may be necessary.
SECTION 9
PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: Not applicable
Specific Gravity: 1.335
Flashpoint: Non-flammable
pH: Not listed
Appearance: White prills or granules.
Extinguishing Media: Use media suitable to extinguish source of fire.

Solubility in Water: 67 gm/100 gm H₂O @ 32°F
% Volatiles (by volume): 0
Vapor Pressure, mm Hg: Not applicable
Reaction with Water: None

SECTION 10
STABILITY AND REACTIVITY

Stability (Normal Conditions): Stable
Conditions to Avoid: Extremely high temperatures.
Incompatibility (Material to Avoid): Strong oxidizing agents. Prolonged contact may cause oxidation of unprotected metals.
Hazardous Decomposition Products: During extremely high temperature fire conditions, the product may reach melting point and decompose to release NH₃, SOₓ, POₓ or CN.
Hazardous Polymerization: Will not occur

SECTION 11
TOXICOLOGY INFORMATION

Oral LD50 (rat) 14,300 mg/kg
Dermal LD50 (rat) none listed
Aquatic Fish 96-hour > 9,100 mg/L
Aquatic (other) > 10,000 mg/L (daphnia)

Toxicity data from TFI Product Testing Results.

SECTION 12
ECOLOGICAL INFORMATION

None listed.

SECTION 13
DISPOSAL CONSIDERATIONS

Waste Disposal Procedures: Pick up with a shovel and broom and use as a fertilizer by applying to soil using good agricultural and soil management.

SECTION 14
TRANSPORT INFORMATION

Shipping name: Not regulated by DOT
Hazard Class: None
Reportable Quantity (RQ): None
Labels Required: None
Placard: None
C.A.S. Number: See "Ingredients"
D.O.T. Number: None
Haz Waste No: None
EPA Regist No: None

SECTION 15
REGULATORY INFORMATION

Carcinogenicity: by IARC?: Yes ( ) No (X)  by NTP?: Yes ( ) No (X)
Not on the 302 list of SARA reportable quantities.

SECTION 16
OTHER INFORMATION

Flammable Limits
Flash Point (Test Method): Non-flammable
Autoignition Temperature: Not applicable
LOWER N/A
UPPER N/A

MSDS Version Number: 4 (revisions to Section 11)

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Reviewed by: The Department of Regulatory Affairs
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