

## MATERIAL SAFETY DATA SHEET

### PRODUCT INFORMATION

PRODUCT NAME: **21-0-0**

CHEMICAL NAME: UREA

MANUFACTURERS NAME: AGRO-K CORPORATION  
ADDRESS: 8030 Main Street N.E.  
Minneapolis, MN 55432-1844

TELEPHONE: (763) 780-4116 / (800) 328-2418  
FAX: (763) 780-4316

CAS NO.: 57-13-6

### PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: 106 degrees C.

MELTING POINT: N/A

SOLUBILITY IN WATER: Complete

VAPOR PRESSURE: N/A

SPECIFIC GRAVITY: 1.14 (H<sub>2</sub>O = 1)

APPEARANCE: Clear liquid with slightly pungent odor

MOLECULAR WEIGHT: N/A

PERCENT VOLATILE: N/A

VAPOR DENSITY: N/A

EVAPORATION: N/A

REACTIVITY IN WATER: None

### FIRE AND EXPLOSION DATA

FLASH POINT: N/A

FLAMMABLE LIMITS: LEL N/A  
UEL N/A

EXTINGUISHING MEDIA: Water

SPECIAL FIRE FIGHTING PROCEDURES: Essentially Non-Flammable

### PHYSICAL HAZARDS

STABILITY: Stable

CONDITIONS TO AVOID: None

INCOMPATIBILITY: Hypochlorites

HAZARDOUS DECOMPOSITION PRODUCTS: Ammonia

HAZARDOUS POLYMERIZATION: Will no occur

### SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Not required

VENTILATION: Good ventilation practices should be used.

SKIN PROTECTION: Rubber coated gloves are recommended

EYE PROTECTION: Safety Glasses are recommended.

### HEALTH HAZARDS

THRESHOLD LIMIT:  
Value (TVL) None established

EYE IRRITATION: Low eye irritation potential

SKIN IRRITATION: Low skin irritation potential

CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN:

NATIONAL TOXICOLOGY PROGRAM: Not Listed

I.A.R.C. MONOGRAPHS: Not Listed

OSHA: Not Listed

OSHA PERMISSIBLE EXPOSURE LIMIT: Non Established

ACGIH THRESHOLD LIMIT VALUE: Non Established

OTHER EXPOSURE LIMIT USED: N/A

SUPERFUND AMENDMENT &  
REAUTHORIZATION ACT (SARA), Title III: N/A

EMERGENCY AND FIRSTAID PROCEDURES

INHALATION: Not considered an inhalation hazard

EYES: Wash eyes thoroughly and immediately with water. If irritation persists, consult a physician.

SKIN: Wash skin thoroughly with water. If irritation persists, consult a physician.

INGESTION: Urea is not considered toxic and is used medically as a diuretic. If ingestion occurs, drink large quantities of water and induce vomiting.

ENVIRONMENTAL PROTECTION

ENVIRONMENTAL IMPACT: Use and disposal employing proper environmental control practices should not cause significant environmental impact.

Since urea is a fertilizer, it may promote eutrophication in waterways.

PRECAUTIONS IF MATERIAL  
IS RELEASED OR SPILLED:

Caution should be exercised in the area of spill material as urea solution can cause a slippery condition.

WASTE DISPOSAL METHODS:

Contain spills and maximize recovery. Disposal of spilled materials should be in accordance with applicable federal, state and local environmental regulatory requirements.

SPECIAL PRECAUTIONS

HANDLING AND STORAGE PRECAUTIONS: Avoid heating containers of urea.