

## MATERIAL SAFETY DATA SHEET

### SECTION 1 PRODUCT IDENTIFICATION

Product Name Urea Phosphate Fertilizer  
Synonyms 27-27-0, 34-17-0  
Product Use Agricultural Fertilizer

### SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS Number	% by WT	Hazardous?	OSHA - PEL		ACGIH - TLV	
				TWA		TWA	STEL
Not Applicable							

### SECTION 3 HAZARDS IDENTIFICATION

Primary Routes of Entry Inhalation, Eye Contact, Skin Contact  
Ingestion Not information available. Not a primary route of entry.  
Inhalation Inhalation may cause irritation to respiratory tract.  
Eye Contact May cause irritation.  
Skin Contact May cause irritation.

### SECTION 4 FIRST AID MEASURES

Skin Contact Wash with soap and water.  
Eye Contact Flush eyes with running water for 15 minutes. If irritation persists, call a doctor.  
Inhalation Remove to fresh air.  
Ingestion Drink 2-3 glasses of water and induce vomiting. Call a doctor.

### SECTION 5 FIRE FIGHTING MEASURES

Flash Point N/A  
Auto Ignition Temperature N/A  
Flammability Limits in Air (%) N/A  
Fire Extinguishing Media Water to cool surfaces and media suitable to extinguish source of fire.  
Special Fire Fighting Procedures Approach fire from upwind and wear self-contained breathing apparatus.  
Unusual Fire or Explosion Hazards Heating mixtures of urea and oxidizers can be dangerous. Hypochlorites react with urea to form nitrogen trichloride that explodes spontaneously in air. Urea Nitrate can be formed when urea comes into contact with nitric acid. Urea nitrate can explode with friction.

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**SECTION 6 HANDLING, STORAGE, RELEASES AND DISPOSAL**

Handling	Avoid using containers, pipes and fittings made of zinc-clad or copper bearing alloys that are corroded by ammonia.
Storage	Store in a cool, dry area.
Releases	Sweep up and scoop into suitable containers for use, recycle or disposal.
Disposal	Disposal of spilled material should be in accordance with applicable local, provincial and federal environmental regulatory requirements.

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**SECTION 7 EXPOSURE CONTROLS/PERSONAL PROTECTION**

Ventilation	Natural ventilation is adequate.
Respiratory Protection	Dust mask should be worn in very dusty environment.
Skin Protection	Normal body-covering work clothing.
Eye Protection	Safety glasses.
Other Personal Protective Equipment	Eye wash stations should be located in work area.

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**SECTION 8 PHYSICAL AND CHEMICAL PROPERTIES**

Appearance and Odour	Odourless mixture of white and green or brown granules.
Boiling/Freezing Point	N/A
Solubility	Soluble in water.
pH	N/A
Density	56 lb per cu ft (27-27-0) 52 lb per cu ft (34-17-0)
Odour Threshold	N/A
Vapour Pressure, mm Hg	N/A
Vapour Density (Air=1)	N/A
Evaporation	N/A

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**SECTION 9 STABILITY AND REACTIVITY**

Under Normal Conditions	Stable under normal conditions.
Under Fire Conditions	Decomposes above 130°C (266°F)
Conditions to Avoid	High temperatures. See above.
Materials to Avoid	Strong oxidizers such as hypochlorites, nitric acid, sodium nitrite, phosphorus pentachloride and nitrosyl perchlorate.
Hazardous Decomposition Products	Ammonia, oxides of carbon and phosphorous.

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**SECTION 10 TOXICOLOGICAL INFORMATION**

None available.

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**SECTION 11 ECOLOGICAL EFFECTS**

Low toxicity to aquatic life. Do not contaminate any body of water or waterway by direct application, cleaning of equipment or disposal.

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**SECTION 12 TRANSPORT INFORMATION**

Not regulated by Transport Canada (TDG).

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**SECTION 13 LEGEND**

ACGIH	American Conference of Governmental Industrial Hygienists
CAS NUMBER	Chemical Abstracts Service Registry Number
PEL	Permissible Exposure Limit
OSHA CFR	US Occupational Safety and Health Administration, Federal Register, Part 1910, 1200 on Hazard Communication
STEL	Short Term Exposure Limit
TC	Transport Canada
TDG	Transportation of Dangerous Goods
TLV	Threshold Limit Value
TWA	Time-Weighted Average

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**SECTION 14 NOTES**

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**SECTION 15 MSDS PREPARATION INFORMATION**

Prepared by	Border Chemical Company Limited - (204) 222-3276
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