

MATERIAL SAFETY DATA SHEET

MANUFACTURER: ORGANIC FERTILIZER MANUFACTURERS BOTSWANA



UREA		
SOP No: UREA10012018	REVISION No: 001	EFFECTIVE DATE 10/1/2018

Contact Details

Supplier's Name:	Organic Fertilizer Manufacturers Botswana
Address:	P.O. Box AD702 ADD Kgale Gaborone
Emergency Telephone:	(267) 76065264
Information Telephone:	(267) 76065264
Date prepared:	10/1/2018

SECTION: 1 CHEMICAL IDENTIFICATION

Product:	UREA
Chemical Class:	Fertilizer

SECTION: 2 INGREDIENTS / IDENTITY INFORMATION

Composition:	A stable substance containing, ca. 100% Urea
Molecular formula:	White or green solid prills or granules

SECTION: 3 PHYSICAL / CHEMICAL CHARACTERISTICS

Physical State:	Dry Prills / Granules
Boiling Point:	N/A
Vapour Pressure:	N/A
Specific Gravity:	N/A
Percent Volatile:	N/A
Melting Point:	133°C
Solubility in Water:	Highly soluble, hygroscopic
Appearance and Odour:	White or green solid prills /granules. No odour

N/A = Not Applicable

N/D = Not Determined

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SECTION: 4 FIRE AND EXPLOSION HAZARD DATA

Effects and Symptoms:	Heating under confinement may lead to violent reaction or explosion.
Flash Point:	N/A
Flammable Limits:	Combustible when exposed to high heat, will burn in a fire
Extinguishing Media:	Water
Special Fire Fighting Procedures:	Use extinguishing media appropriate for surrounding fire, use self-contained breathing units. Thermal decomposition may evolve ammonia.

SECTION: 5 HEALTH HAZARD DATA

Routes of exposure:	Eye, skin, inhalation, ingestion
Eyes:	Hazardous in case of eye contact
Skin:	May cause irritation from abrasion
Inhalation:	Dust may irritate nose, throat and the respiratory tract which may cause coughing
Ingestion:	Swallowing large amounts may cause irritation and gastrointestinal disorders in extreme cases.
Health hazards	No known side effects have been associated with repeated or prolonged exposure
Carcinogenicity	N/A
Emergency and first Aid:	Eyes: Flush with cool water for 15 minutes. Obtain medical attention if condition persists. Irritating, but does not injure eye tissue. Skin: In case of contact, immediately flush with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms appear. Inhalation: If inhaled, remove to fresh air area. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear. Ingestion: Do not induce vomiting. If ingested, seek medical attention as soon as possible.

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SECTION: 6 PRECAUTIONS FOR SAFE HANDLING AND USE

If material is released or spilled:	Spills may be easily cleaned up by sweeping up as much solid as possible and washing remaining spill with copious amounts of water.
Waste and Disposal Method:	Waste must be disposed of in accordance with local, provincial and national environmental control regulations. Recover, reclaim or recycle if practical.
Precautions to be taken in Handling and Storing:	Store in cool, dry place away from Children, domestic animals, food and feed products.

SECTION: 7 STABILITY AND REACTIVITY

Stability:	The product is stable. Hygroscopic; absorbs moisture from the air. Avoid contact with moisture.
Hazardous decomposition:	Decomposition may evolve the oxides of nitrogen and ammonia.
Hazardous reaction:	Contact with reducing agents and some flammable substances may cause violent reaction and combustion.

SECTION: 8 ECOLOGICAL INFORMATION

Users should ensure that they comply with local, provincial and national environment legislation.	
Environmental affects:	Toxic to aquatic organisms in low concentrations

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SECTION: 9 CONTROL MEASURES

Respiratory Protection:	Dust mask necessary.
Ventilation:	Use ventilation to keep exposure to airborne contaminants below the exposure limit.
Protective Gloves:	Protective gloves necessary (Impervious)
Eye Protection:	Protective eye-ware necessary
Other Protective Clothing Or Equipment:	Full length chemical resistant overalls / apron, dust mask
Work/Hygienic Practices:	Wash hands after handling compounds and before eating, smoking, using lavatory and at the end of the day.

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