1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name/Identifier: HYFER COATED UREA INORGANIC FERTILIZER (46-0-0)
FPA Registration No: 1-1LF-4553

Recommended Use: Fertilizer
Recommended Restrictions: None Known

Manufacturer/Importer/Supplier/Distributor Information
Manufacturer/Supplier AGROTIGER PHILS. CORP.
Rm 205, 2nd flr. ONE Greenhills Shopping Plaza Bldg.
No. 5 Eisenhower St., Greenhills San Juan City
Metro Manila, Philippines 1504
Contact No. +632-7453096

2. HAZARD(S) IDENTIFICATION

Physical hazards: Not classified.
Health hazards: Not classified.
OSHA defined hazards: Not classified.
~~Label elements~~
- Hazard symbol: None.
- Signal word: None.
- Hazard statement: The mixture does not meet the criteria for classification.
- Precautionary statement
  - Prevention: Observe good industrial hygiene practices.
  - Response: Wash hands after handling.
  - Storage: Store away from incompatible materials.
  - Disposal: Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise ~~classified (HNOC)~~: None known
Supplemental information: Not applicable

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	% Comp	CAS #
Urea	95-100	57-13-6
Coating	1-5	mixture

Composition comments

All concentrations are in percent by weight
This Safety Data Sheet is not a guarantee of product specification or NPK value(s). NPK content is on specified sales orders, customer invoices, or product specification sheets obtained from supplier.

4. FIRST AID MEASURES

Inhalation: Move to fresh air. Get medical attention if any discomfort continues.

~~Skin contact~~: ~~Wash contact areas with soap and water. Get medical attention if~~ irritation develops and persists.

Eye contact	Dust in the eyes: Do not rub eyes. Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention if irritation persists after washing.
Ingestion	Rinse mouth thoroughly. Get medical attention if any discomfort continues.
Most important symptoms/effects, acute and delayed	Eye contact: Symptoms can include irritation, redness, scratching of the cornea, and tearing. Skin contact: May cause mild skin irritation. Dust may irritate throat and respiratory system and cause coughing.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	Urea is non-combustible under most conditions. However, during a fire, irritating/toxic gases may be generated. The dust can be ignited at very high temperatures, but not expected to explode(minimum ignition temperature (cloud) = 900 deg C.
Special protective equipment and precautions for firefighters	Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do it without risk. Use water spray to prevent dust formation, absorb heat, keep containers cool and protect fire-exposed material.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Avoid inhalation of dust and contact with skin and eyes. Ensure adequate ventilation. Wear suitable protective clothing. Use personal protection recommended in Section 8 of the SDS.
Methods and materials for containment and cleaning up	Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for disposal. If sweeping of a contaminated area is necessary use a dust

suppressant agent which does not react with the product. After removal flush contaminated area thoroughly with water.

Environmental precautions	Never return spills to original containers for re-use. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Do not allow to enter drains, sewers or watercourses.

7. HANDLING AND STORAGE

Precautions for safe handling	Avoid inhalation of dust and contact with skin and eyes. Use only with adequate ventilation. Avoid generation and spreading of dust. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Keep container tightly closed. Store in a cool, dry, well-ventilated place. Store away from incompatible materials.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Dust	TWA	3 mg/m^3	Respirable particles.
		10 mg/m^3	Inhalable particles.

Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls	Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of dust.

Individual protection measures, such as personal protective equipment

Eye/face protection	Use tight fitting goggles if dust is generated.
Skin protection	
Hand protection	Risk of contact: Wear protective gloves. Suitable gloves can be recommended by the glove supplier.
Other	Normal work clothing (long sleeved shirts and long pants) is recommended.
Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Wear air supplied respiratory protection if exposure concentrations are unknown. In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment with particle filter.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	
Physical state	Solid
Form	Granular solid
Color	Green
Odor	Odorless
Odor threshold	Not available
pH	Not available
Flammability (solid, gas)	Not available
Explosive properties	Not explosive
Oxidizing properties	Not oxidizing

10. STABILITY AND REACTIVITY

Reactivity	Reacts violently with strong oxidants, nitrites, inorganic chlorides, chlorites and perchlorates causing fire and explosion hazard
Chemical stability	Normally stable. May gradually give off ammonia. The product is hygroscopic and will absorb water by contact with the moisture in the air.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Moisture. High temperatures. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents. Nitric acid. Nitrites.
Hazardous decomposition products	Carbon oxides. Nitrogen oxides (NOx). Ammonia. Biuret.

11. TOXICOLOGICAL INFORMATION

Product LD50 values:	Oral, rat LD50 (mg/kg): 8471 Oral, mouse: LD50 (mg/kg): 11 Dermal, Rabbit LD50 (mg/kg): N.A.
Carcinogenicity:	Not listed by ACGIH, IARC, NTP, or CA Prop 65.
Epidemiology:	Oral, rat: TDLo = 821 gm/kg/1Y-C (Tumorigenic - neoplastic by RTECS criteria - Blood - tumors and Blood - lymphoma, including Hodgkin's disease).; Oral, mouse: TDL0 = 394 gm/kg/1Y-C (Tumorigenic - Carcinogenic by RTECS criteria - Blood – tumors and Blood - lymphoma, including Hodgkin's disease).
Teratogenicity:	No information available.
Reproductive Effects:	Intraplacental, woman: TDLo = 1400 mg/kg (female 16 week(s) after conception) Fertility - abortion.; Intraplacental, woman: TDLo = 1600 mg/kg (female 16 week(s) after conception) Fertility - abortion.
Mutagenicity:	DNA Inhibition: Human, Lymphocyte = 600 mmol/L.; Cytogenetic Analysis: Human, Leukocyte = 50 mmol/L.; DNA Damage: Mouse, Lymphocyte = 628 mmol/L.;

Mutation in Mammalian Somatic Cells	Mouse, Lymphocyte = 265 mmol/L.
Neurotoxicity:	No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity:	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	This product is water soluble and may disperse in soil.
Other adverse effects	No data available.

13. DISPOSAL CONSIDERATIONS

Disposal instructions	Do not allow this material to drain into sewers/water supplies. Dispose in accordance with all applicable regulations.
Hazardous waste code	Not regulated.
Waste from residues / unused products	Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION

DOT	Not regulated as dangerous goods.
IATA	Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable. However, the product is covered under Appendix I of the IMSBC Code.

15. REGULATORY INFORMATION

Fertilizer and Pesticide Authority - Department of Agriculture	Regulated
Philippine National Police	Not regulated
Philippine Drug Enforcement Agency	Not regulated
Philippine Food and Drugs Administration	Not regulated

Based on available information, not classified as hazardous according to DENR DAO 2005-27 Revised Priority Chemical list and RA 6969 - The Toxic Substances & Nuclear & Hazardous Waste Control Act of 1992

This material is listed in the Philippine Inventory of Chemicals and Chemical Substances (PICCS)

16. OTHER INFORMATION

Issue date	18-March-2019
Revision date	-
Version #	01
Further information	HMIS® is a registered trade and service mark of the NPCA. A HMIS® Health rating including an *indicates a chronic hazard
HMIS® ratings	Health: 1 Flammability: 0 Physical hazard: 0
List of abbreviations	LC50: Lethal Concentration, 50%. LD50: Lethal Dose, 50%.
References	ECHA CHEM HSDB® - Hazardous Substances Data Bank

Prepared by:

26 April 2019

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Valid thru July 2021