# 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name/Identifier:

HYFER POTASSIUM INORGANIC FERTILIZER (0-0-61)

FPA Registration No:

1-1LF-4196

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

NON-HAZARDOUS SUBSTANCE, NON-DANGEROUS GOODS.

Label elements

Hazard symbol

None.

Signal word

None.

Hazard statement

None.

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#      |
|--------------------|--------|-----------|
| Potassium chloride | 95-99  | 7447-40-7 |
| Coating            | 1-5    | mixture   |

#### Composition comments

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

If breathing is difficult, remove to fresh air and keep at rest in a

position comfortable for breathing.

Call a physician if symptoms develop or persist.

Skin contact

Wash off with plenty of water. Get medical attention promptly if

symptoms persist or occur after washing.

Eye contact

Immediately flush with plenty of water for up to 15 minutes. Get

medical attention if irritation persists after washing.

Page 1

Ingestion If ingestion of a large amount occurs, call a poison control center

immediately. Do not give anything by mouth to an unconscious person.

Get medical attention if any discomfort occurs.

Most important

Eye contact: Causes serious eye irritation.

symptoms/effects,

Skin contact: Causes skin irritation.

acute and delayed Ingestion: Toxic if swallowed.

Inhalation: May cause respiratory irritation.

General advice

Ensure that medical personnel are aware of the material(s) involved,

and take precautions to protect themselves.

Notes to physician

Provide general supportive measures and treat symptomatically.

#### 5. FIRE FIGHTING MEASURES

Suitable extinguishing media

The product is non-combustible. Use fire-extinguishing media

appropriate for surrounding materials.

Avoid excessive water to minimize runoff. Prevent firefighter water

from entering the environment.

Specific hazards arising

from the chemical

Hazardous combustion products

- Hydrogen chloride gas

- Chlorine.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus, operated in positive pressure mode and full protective clothing must be worn in case of fire.

Fire fighting

Move container from fire area if it can be done without risk. Prevent

equipment/instructions entry into waterways, sewers, basements or confined areas.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions. protective equipment and emergency

Ventilate the area. For personal protection, see section 8 of the SDS.

procedures

for containment

and cleaning up

Methods and materials Stop the flow of material, if this is without risk. Collect and dispose of section 13 of the SDS. Collect spill using a vacuum cleaner with a HEPA filter. Dampen spillage with water. Put material in suitable, covered,

labeled containers. Flush area with plenty of water.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent spreading

over a wide area (e.g. by containment or oil barriers).

# 7. HANDLING AND STORAGE

Precautions for safe handling

Use with adequate ventilation.

Conditions for safe

Store in a cool, dry, well-ventilated place. Store away from

storage, including incompatible materials.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Recommended monitoring procedures

Additional exposure

No exposure standards allocated.

Data

Engineering measures

Provide adequate ventilation.

Personal protective equipment

Respiratory protection In case of inadequate ventilation or risk of inhalation of dust, use

suitable respiratory equipment with particle filter (type P2).

Hand protection

Eye protection

Wear approved safety glasses or goggles.

Skin and body

Wear appropriate clothing to prevent repeated or prolonged skin

protection

contact.

Hygiene measures

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.

Wear protective gloves.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state

Solid

Form

Granular solid

Color

Red Orange

Odor

Odorless Not available

Odor threshold

5.4 - 10 (5% solution)

Hq

Flammability (solid, gas) Not applicable.

Vapour pressure

Not apllicable.

1500 °C (2732 °F) Sublimes.

Boiling point

99.5 - 99.999 %

Solubility (water) Flash point

Not applicable.

**Bulk density** 

64 - 75 lb/ft3

**Explosive properties** 

Not explosive

Oxidizing properties

Not oxidizing

#### 10. STABILITY AND REACTIVITY

Reactivity

The substance is hygroscopic and will absorb water by contact with the

moisture in the air.

Chemical stability

Stable under normal conditions.

Possibility of hazardous Hazardous polymerization does not occur.

reactions

Conditions to avoid

Contact with incompatible materials. (Strong acids, oxidizers, nitric acid

and sulfuric acid).

Incompatible materials

Strong oxidizing agents, Acids, Chlorates and Hypochlorites

Hazardous

If heated to the point of decomposition, Hydrogen chloride gas and

decomposition products Chlorine may be released.

#### 11. TOXICOLOGICAL INFORMATION

Acute toxicity: Oral, rat LD50 (mg/kg): 2600

Exposed may experience eye tearing, redness, and discomfort. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Signs and symptoms of overexposure may include abdominal cramping,

irregular heartbeats (arrhythmia), dehydration, and hypertension.

Routes of exposure

Eye contact. Inhalation. Ingestion. Skin contact.

Chronic toxicity

Chronic effects are not expected when this product is used as intended.

Carcinogenicity

This product is not considered to be a carcinogen by IARC, ACGIH, NTP,

or OSHA.

Mutagenicity

None known.

Teratogenicity

None known.

Reproductivity

None known.

Epidemiology

No epidemiological data is available for this product.

Local effects

May cause eye irritation on direct contact. Prolonged or repeated skin

contact may cause irritation.

### 12. ECOLOGICAL INFORMATION

Ecotoxicological data

| Aquatic                          |  | Species                                       | Test results       |  |
|----------------------------------|--|---|--------------------|--|
| Crustacea                        | EC50   | Water flea (Daphnia magna)                    | 83 mg/l, 48 hours  |  |
| Fish                             | LC50   | Western mosquitofish (Gambusia affinis)       | 435 mg/l, 96 hours |  |
| Ecotoxicity                      | The product components are 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<br>Degradability | Expected to be persistent.   |   |                    |  |
| Mobility                         | The product is water soluble and may spread in water systems.  |   |                    |  |
| Bioaccumulation                  | The  | The product is not expected to bioaccumulate. |                    |  |

## 13. DISPOSAL CONSIDERATIONS

must be sent to approved plant for destruction.

Hazardous waste code Not i

Not regulated.

Waste from residues /

Dispose of in accordance with local regulations.

unused products

Contaminated packaging Offer rinsed packaging material to local recycling facilities.

Page 4

# 14. TRANSPORT INFORMATION

DOT

Not regulated as dangerous goods.

IATA **IMDG** 

Not regulated as dangerous goods. Not regulated as dangerous goods.

Transport in bulk

Not regulated as dangerous goods.

according to Annex II of MARPOL 73/78 and

the IBC Code

#### 15. REGULATORY INFORMATION

Fertilizer and Pesticide Authority - Department of Agriculture

Regulated Not regulated

Philippine National Police

Not regulated

Philippine Drug Enforcement Agency 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

17-April-2019

Revision date

01

Version # List of abbreviations

ACGIH: American conference of governmental and industrial hygienist

CAS No.: Chemical Abstract Service Number

LC50: Lethal Concentration, 50%.

LD50: Lethal Dose, 50%.

References

ECHA CHEM

HSDB® - Hazardous Substances Data Bank

### Other information

This information is based on our present knowledge and is provided according to the relevant national regulations. This information is intended as a characterization of the product in order to provide guidance for the relevant safety issues. However, this document does not provide any warranty, expressed or implied, regarding the properties of the product.

Prepared by:

Registered Chemist

PRC 0007971

Valid thru July 2021