## Hebei JRain Technology Co., Ltd

Date: Mar.7th, 2023

#### 1 .ldentification of substance

Product Name ETHEPHON 91% TECH

Chemical Name 2-chloroethyl-Phosphonic Acid

Recommended Use For Manufacturing Use Only- Plant Growth Regulator

Supplier Name HEBEI JRAIN TECHNOLOGY CO.,LTD.

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#### Section 2 - Hazards identification

**GHS Pictograms** 







Signal words

Danger

Hazard statements Harmful if inhaled.

Harmful in contact with skin.

Causes serious skin burns and eye damage Harmful to aquatic life with long lasting effects

Precautionary Statement Do not breathe dusts or mists

Prevention Avoid breathing dust/fume/gas/mist/ vapours /spray.

Use only outdoors or in a well-ventilated area.

Wash hands thoroughly after handling. Avoid release to the environment.

Wear protective gloves/eye protection/face protection.

Precautionary Statement IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.

IF ON SKIN(or hair): Remove/Take off immediately all contaminated

clothing. Rinse skin with water/shower.

IF INHALED: Remove victim to fresh air and keep at rest in a

position.

Specific measures (Reference to supplemental first aid instruction).

Immediately call a POISON CENTER or doctor/physician.

# Hebei JRain Technology Co., Ltd

Call a POISON CENTER or doctor/physician if you feel unwell.

IF ON SKIN: Wash with plenty of soap and water.

IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

Wash contaminated clothing before reuse.

Precautionary Statement

Storage

Store locked up

Precautionary Statement

Disposal

Dispose of contents/container in according with local regulation.

### Section 3 – Composition / information on ingredients

Component Information Component	CAS number	EINECS number	Mass(%)					
2-Chloroethylphosphonic acid Water	16672-87-0 7732-18-5		91.0% 9.0%					
Section 4 – First-aid measures								

NOTE TO PHYSICIAN In case of shortness of breath, give oxygen. Keep victim warm.

Keep victim under observation.

After inhalation Move to fresh air. Oxygen or artificial respiration if needed.

Get immediate medical attention.

After skin contact Immediately flush skin with plenty of water.

Remove and isolate contaminated clothing And shoes. If irritation persists, get medical attention immediately.

For minor skin contact, avoid spreading material on unaffected skin.

Wash clothing separately before reuse.

After eye contact Immediately flush eyes with plenty of water for at least 15 minutes.

Assure adequate flushing of the eyes by separating the eyelids with

fingers. Get medical attention immediately.

After ingestion Do not induce vomiting without medical advice.

If vomiting occurs naturally, have victim lean forward to reduce risk of

aspiration.

Loosen tight clothing such as a collar, tie, belt of waistband.

Do not use mouth-to-mouth method if victim ingested the substance.

## Technolo

Page 2 of 8

Section 5– First-fighting measu	ures
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Suitable extinguishing agents Water spray, alcohol-resistant foam, CO<sub>2</sub>, Dry chemical powder.

Special hazards caused by the material, its products of combustion or flue gases

can be released in case of fire:

Carbon monoxide, carbon dioxide, Chlorides and Phosphorus

 $oxides(PO_X)$ 

Protective equipment Wear full protective clothing, including helmet, self-contained positive

Pressure or pressure demand breathing apparatus, protective

clothing and face mask.

#### Section 6- Accidental release measures

Person-related safety

precautions

Ensure adequate ventilation. Do not touch damaged containers or

spilled material unless wearing appropriate protective clothing.

Ventilate closed spaces before entering. Keep unnecessary personnel away..

Measures for

environmental protection

Prevent further leakage or spillage if safe to do so. Do not allow

material to be released to the environment without proper

governmental permits.

Measures for

cleaning / collecting

Pick up and arrange disposal without creating dust, then place in

suitable container. Clean contaminated surface thoroughly.

Additional information See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

#### **Section 7– Handling and storage**

Handling

Information for safe handling Avoid contact with skin and eyes.

Avoid formation of dust and aerosols.

In case of insufficient ventilation, wear suitable respiratory equipment

If ingested.

## Technology

Page 3 of 8

protection against explosion and fires Keep away from heat, sources of ignition, sparks or open flame.

**STORAGE** 

Requirements to be met by storerooms and containers

Keep in a cool, dry, well-ventilated place. Keep tightly closed until

used.

common storage facility

Information about storage in one Store away from imcompatible substances such as oxidizing agents

Further information

about storage conditions

No data

#### Section 8– Exposure controls/personal protection

Limit Values for Exposure

Component	CAS	ACGIH	ACGIH	OSHA	OSHA
	number	TLV-TWA	TLV-STEL	PEL-TWA	PEL-STEL
2- Chloroethylphosphonic acid	16672-87-0	N.E.	N.E.	N.E.	N.E.

measures

General protective and hygienic Do not get this material in contact with skin. Do not get this material on clothing. Avoid contact with eyes. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks

and at the end of workday.

Personal protective equipment

When workers are facing high concentrations they must use. Breathing equipment

Appropriated certified respirators.

Protection of hands Wear appropriate chemical resistant gloves.

Use safety with side shields or safety goggles as mechanical barrier Eye/Face protection

for prolonged exposure.

Use clean protective body-covering as needed to minimize contact Body protection

with clothing and skin.

Note: 1. N.E. means not established

# Hebei JRain Technology Co., Ltd

Page4 of 8

### Section 9- Physical and chemical properties

Physical state, Solid

Appearance White or light brown waxy

Odour Not applicable

PH 1.5~3.0 Melting point 74~75°C

Boiling point

Flash point

Evaporation rate

Flammability

Upper/lower flammability

Not applicable

Not applicable

Not applicable

Not applicable

or explosive limits

Vapour pressure
Vapour density(air=1)
Relative density
Solubility(water)
Not applicable
Not applicable
Not applicable
Not applicable
Not applicable

n-octanol /water

Auto-ignition temperature Not applicable

Decomposition temperature 170 °C

Viscosity Not applicable

#### Section 10- Stability and reactivity

Chemical stability This is a preparation which is chemical stable.

Possibility of hazardous

reactions Not available

Conditions to avoid(e.g stactic

discharge, shock or vibration) Heat, flames and sparks.

Incompatible material Avoid contact with strong oxidizing.

Hazardous decomposition Carbon monoxide, carbon dioxide, Chlorides and Phosphorus

### Hebei JRain Technology Co., Ltd

Products oxides(PO<sub>X</sub>)

Page 5 of 8

#### **Section 11– Toxicological information**

This product is a preparation for which toxicological data exists. The oxicological data for the product's hazardous ingredients are provided below.

Routes of Entry: Dermal contact, eye contact, inhalation, ingestion.

Acute Toxicity LD50(Rat, oral): 3400mg/kg

Skin corrosion/Irritation Serious Cause skin irritation.

Cause eye irritation.

Damage/irritation

Respiratory or skin sensitization No sensitizing effects known.

Germ cell mutagenicity No data available

Carcinogenicity No classification data on carcinogenic properties of this chemical is

available from IARC, OSHA, ACGIH, EPA OR NTP..

Reproductive toxicity

STOT-single exposure

Aspiration hazard

No data available

No data available

Chronic Effects To the best of our knowledge the chronic effects of this product is not

fully known. This product may be harmful if absorbed through the skin. May be fatal if inhaled. Prolonged exposure may cause disorder

of respiratory tract system.

Further Information No data available

#### **Section 12– Ecological information**

**Ecotoxicity** 

Aquatic Toxicity No data
Additional Information No data

Do not allow material to be released to the environment without

proper governmental permits.

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#### Section 13- Disposal considerations

#### WASTE DISPOSAL INSTRUCTIONS

Contact a licensed professional waste disposal service to dispose of this material. Dispose of in accordance with local environmental regulations or local authority requirements.

Page 6 of 8

#### **Section 14– Transport information**

The Recommendation of Transport of Dangerous GOODS(TDG)

UN Number 2923

Proper Shipping Name Corrosive solid, Toxic, N.O.S.(Ethephon TECH)

Hazard Class 8(6.1)
Packing Group II
Subsidiary risk None

Labelling pictogram

Maritime transport IMDG

Air transport ICAO-TI and



Being same with TDG Being same with TDG

IATA-DGR

#### Section 15–Regulatory information

#### **European/International Regulations**

OSHA Hazardous by definition of Hazard Communication Standard

(29CFR1910.1200)

EINECS Status All components are included in EINECS inventory.

EPA TSCA Status 2-Chloroethylphosphonic acid is not included in TSCA inventory.

Canadian DSL(Domestic

System(Ratings)

Substances List): 2-Chloroethylphosphonic acid is not included in DSL.

Flammability: 1

Material Identification Health: 4

Physical hazard: 0

Personal protection; K

(4. Severe Hazard; 3. Serious Hazard; 2. Moderate Hazard;

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1. Slight Hazard; 0. Minimal Hazard)

WHMIS(Canadian Workplace Hazardous Material Identification System Ratings): D1A E

GB12268-2005 List of Dangerous goods

This product is a dangerous goods on the GB12268-2005 list of dangerous goods.

Page 7 of 8

#### Section 16-other information

Edit date 05/08/2015 Revision Date 05/08/2015

Edit Standard Globally Harmonized System of Classification and Labelling for

Chemical Part 1.5

Disclaimer

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