

Trade Name: Plant-Prod 20-5-30
Date: 2020-04-08

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1. Identification of the substance/preparation and the company/undertaking

1.1. Identification of the substance or preparation

Plant-Prod 20-5-30

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use: Water-soluble fertilizer for horticulture and agriculture

Uses advised against: No information available

1.3. Details of the supplier of the safety data sheet

Master Plant-Prod Inc.

314 Orenda Road

Brampton, Ontario, Canada

L6T1G1

Email technical@plantprod.com

+001-905-793-8000

1.4. Emergency telephone number

Ministry of Labour, Welfare and Social Insurance, Department of Labour Inspection

Address: P.O.Box 24855, 1304 Nicosia, Cyprus

Phone: +35722405611

E-Mail: cy-chemregistry@dli.mlsi.gov.cy

<http://www.mlsi.gov.cy/>

2. Hazards Identification

2.1. Classification of the substance/preparation

2.2. Label elements

Labeling in accordance with regulation 1272/2008 (CLP)

Hazard pictograms:



GHS 03

Signal word: Warning

Hazard statements:

H 272 May intensify fire; oxidizer.

Precautionary statements:

P 210 Keep away from open flames. No smoking.

P 220 Keep away from combustible materials.

P 221 Take any precaution to avoid mixing with combustibles.

P 280 Wear protective gloves/protective clothing/eye protection/face protection.

P 370 + 378 In case of fire: Use any suitable for extinguishing surrounding fire. Spray water for small fires. For large fires flood with abundant water.

P 501 Dispose of contents/container according to local/national regulations

2.3. Other hazards which do not result in classification

See section 5.2.

3. Composition/Information on Ingredients

3.1. Substances

This product is a preparation/mixture

3.2. Preparations

Mixture of ammonium and potassium salts, urea, phosphate, nitrate and trace elements.

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| CAS-No. | REACH-Reg.-No. | Chemical Name | EC-No. | Concentr. (% w/w) | Limit for classification | Classification (acc. to CLP) |
|------------|------------------|---------------------|-----------|-------------------|--------------------------|------------------------------|
| 7757-79-1 | 01-2119488224-35 | Potassium nitrate | 231-818-8 | 0 – 70 | | H 272 |
| 14025-15-1 | 01-2119963944-23 | Copper chelate EDTA | 237-864-5 | 0 – 0.4 | | H 302 |

(For R-phrases and H-statements in full: See section 16)

4. First Aid Measures

4.1. **Description of first aid measures**

Inhalation

Move person into fresh air; in case of respiratory problems: seek medical help.

Skin contact

Remove contaminated clothing; wash with soap and water.

Eye contact

Rinse immediately with plenty of water; remove contact lenses. In case of problems seek medical help.

After ingestion

Rinse mouth with water; give water to drink; if necessary, seek medical help.

Additional information

Respiration of decomposition fumes: Seek medical help and show this information!

4.2. **Most important symptoms and effects, both acute and delayed**

None under normal processing

4.3. **Indication of any immediate medical attention and special treatment needed**

None under normal processing.

5. Fire-fighting Measures

5.1. **Extinguishing media**

Suitable extinguishing media: For surrounding fires: Water

Unsuitable Extinguishing media: Do not use dry chemicals or foams. CO₂ or Halon® may provide limited control.

5.2. **Special hazards arising from the substance or mixture**

In case of fire: Ammonia, oxides of nitrogen, phosphorus oxide may develop Do not inhale the decomposition fumes (NO_x).

5.3. **Advice for fire fighters**

Wear self-contained breathing apparatus and protective suit.

5.4. **Special instructions**

Avoid allowing the firefighting water into the ground water

6. Accidental Release Measures

6.1. **Personal precautions, protective equipment and emergency procedures**

Personal precautions: Avoid dust formation; see sections 7 and 8.

For emergency responders: Use personal protection (see section 8)

6.2. **Environmental precautions**

Do not allow the product to get into the ground water or sewage system.

6.3. **Methods and material for containment and cleaning up**

Methods for containment: Prevent further leakage or spillage if safe to do so.

After spilling: Sweep up or vacuum up material and dispose of (see section 13) or reuse material.

6.4. **Reference to other sections:**

See section 7, 8 and 13.

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7. Handling and Storage

7.1. Precautions for safe handling

Advice on safe handling: Avoid contact with eyes and skin; avoid dust generation.

General hygiene considerations:

- Don't eat, drink or smoke in working areas
- Wash hands after handling
- Remove contaminated clothing

7.2. Conditions for safe storage, including any incompatibilities

Keep dry at room temperature in closed packages (bags); avoid contact with heat sources and oxidizing substances. Do not store with combustible substances, acids or bases.
Keep away from heat and direct sunlight.

7.3. Specific end uses

Fertilizer for horticulture and agriculture

8. Exposure Controls/Personal Protection

8.1. Control parameters Potassium nitrate (CAS-no.: 7757-79-1)

DNEL/DMEL (Workers)

Long-term exposure - systemic effects, dermal

20,8 mg/kg bw/day

Long-term exposure - systemic effects, inhalation

36,7 mg/m³

DNEL/DMEL (General Population)

Acute - systemic effects, oral

12,5 mg/kg bw

Long-term exposure - systemic effects, inhalation

10,9 mg/m³

Long-term exposure - systemic effects, dermal

12,5 mg/kg bw/day

PNEC (Water)

PNEC aqua (freshwater)

0,45 mg/l

PNEC aqua (marine water)

0,045 mg/l

PNEC aqua (intermittent, freshwater)

4,5 mg/l

PNEC (STP)

PNEC sewage treatment plant

18 g/l

8.2. Exposure controls

Personal protective equipment

- Respiratory protection: Dust mask with filter type P1
- Hand protection: possibly protective gloves (rubber)
- Eye protection: wear safety glasses to avoid eye contact. Do not wear contact lenses.

8.3. Environmental exposure controls

See section 6 and 7.

9. Physical and Chemical Properties

9.1. General information

Appearance: powder

Color: light-blue

Odour: slight ammonia odour

Explosive properties: product is not explosive

Boiling point: not applicable

Vapor pressure: not applicable

Flash point: not applicable

Melting point: not applicable (mixture)

Water solubility: max. 400 g/l

Viscosity: not applicable

Vapor density: not applicable

9.2. Other Information

No further physical and chemical data determined

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10. Stability and Reactivity

10.1. Reactivity

Hygroscopic

10.2. Chemical stability

Stable under normal conditions

10.3. Possible dangerous reactions

No dangerous reaction if used as intended

10.4. Conditions to avoid

Humidity; high temperatures

10.5. Materials to avoid

Combustible material, strong acids and bases, reducing material, chlorates, chlorites, hypochlorite, nitrites, chlorate containing herbicides

10.6. Dangerous decomposition products

In case of burning: Nitrogen oxides, phosphorus oxides, ammonia, CO₂ or cyanuric acid.

11. Toxicological Information

(a) Acute toxicity

- not classified; no data available

(b) Skin corrosion/irritation

- not classified; no data available;

according to our experience: weakly irritating

(c) Serious eye damage/irritation

- not classified; no data available

according to our experience: weakly irritating

(d) Respiratory or skin sensitization

- not classified; no data available

(e) Germ cell mutagenicity

- not classified; no data available

(f) Carcinogenicity

- not classified; no data available

(g) Reproductive toxicity

- not classified; no data available

(h) STOT-single exposure

- not classified; no data available

(i) STOT-repeated exposure

- not classified; no data available

(j) Aspiration hazard

- not classified; no data available

11.1. Information on toxicological effects

Irritation: Weakly irritating

12. Ecological Information

12.1. Toxicity

Low hazardous to waters (self-classified); Do not allow the product to get into the ground water or sewage system.

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulation potential

No data available.

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available

12.6. Other harmful effects

No data available

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13. Disposal Considerations

13.1. Methods of disposal

Product: Safest to dispose of product by using it as intended, possibly in agriculture; otherwise: hazardous waste site. European Waste Catalogue and Hazardous Waste List: 02 01 09 "Agrochemical waste other than those mentioned in 02 01 08".

Packages: Emptied packages: Recycling or residual waste.

14. Transport Information

14.1. UN number

1479

14.2. Shipping name

OXIDIZING SOLID, N.O.S. (POTASSIUM NITRATE)

14.3. Class

5.1

14.4. Packing group

III

14.5. Ecological menace

Not harmful to the environment

14.6. Caution information for the user

See sections 6 – 8

15. Regulatory Information

15.1.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

European Union

Regulation (EC) No 2003/2003 of the European Parliament and of the Council of 13 October 2003 relating to fertilizers

Not a hazardous substance according to EC-Directive 67/548/EC, its various amendments and adaptations and EC-Regulation 1272/2008 (CLP).

National regulations

Germany: Water Endangering Class (WGK): 1 (self-classification)

15.2. Chemical Safety Assessment

Mixture was not subject of a safety assessment.

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16. **Other Information**

Revision information

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Information source

Regulation (EC) Nr. 1907/2006 (REACH)
Regulation (EC) Nr. 1272, 2008 (CLP/GHS)
Directive 1999/45/EC (DPD)
Directive 67/548/CEE (DSD)

Full text of H-statements referred to under section 3

| | |
|-------|------------------------------|
| H 272 | May intensify fire; oxidizer |
| H 302 | Harmful if swallowed |

Key or legend to abbreviations and acronyms used in the safety data sheet

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
REACH: Registration, Evaluation, Authorization of Chemicals
CLP: Classification, Labelling and Packaging
OEL: Occupational Exposure Limit
TWA: Time Weighted Average
ATE: Acute Toxicity Estimate
SVHC: Substance of Very High Concern
CMR: Cancerogenic, mutagen, reprotoxic

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