

SAFETY DATA SHEET

Date of Issue: 25.11.09

Trade name: **Reaction Rapid N Plus**

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1. Product and Company identification.

- 1.1 Product name: Reaction Rapid N Plus
- 1.2 Manufacturers product code:
- 1.3 Company name:
Omnia Primaxa LIMITED T/A Omnia
132 Pavilion Drive
Airport Oaks
Manukau, Auckland
New Zealand
Phone: 64 9 257 4030
Fax: 64 9 257 4031
- 1.4 Emergency Telephone Number:
National Poisons and Hazardous Chemicals Information Centre
Dunedin Phone: 0800 POISON (0800 764-766)
24 hr Emergency Response : 0800 CHEMCALL (0800 243 622)
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2. Composition/information on ingredients

Chemical characterisation of the preparation:
Contains: An aqueous solution of Ammonium nitrate (CAS No: 6484-52-2) 20 -45% w/w
and Urea.
For use as a Foliar fertiliser.

3. Hazards identification

Eye: May be irritating.
Skin: Not irritating –repeated or prolonged contact may result in irritation.
Ingestion: may cause gastric irritation, nausea, abdominal spasms, vomiting and faintness.
Large doses may cause systemic acidosis and methemoglobinemia.
Inhalation: An unlikely route of exposure. Inhalation of mists may produce respiratory irritation.

4. First aid measures

- 4.1 After contact with the eyes: Immediately rinse eyes with running water for at least 15 minutes.
Seek medical attention.
- 4.2 After contact with the skin: Remove contaminated clothing. Wash affected area thoroughly with soap and water.
- 4.3 After inhalation: If safe to do so, remove from exposure, give artificial respiration if required.
Seek medical attention immediately.
- 4.4 Ingestion: If conscious, give 3-4 glasses of water to dilute stomach contents.
DO NOT INDUCE VOMITING. Seek medical attention. Treat for methemoglobinemia.

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5. Fire fighting measures

- 5.1 Extinguishing media:
Suitable: all
- 5.2 Special Fire Fighting Procedures:
This product is not combustible.
- 5.3 Unusual Fire and explosion hazards:
Hazardous products of combustion: Development of toxic fumes containing ammonia and oxides of nitrogen possible if involved in a fire.
This product will not burn or support combustion, however, solutions may become explosive if combined with combustible material and dried to a low percentage of water.
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6. Accidental release measures

- 6.1 Spills:
Wear appropriate protective equipment and respirator where mists or vapours of unknown concentrations may be generated.
Large amounts: Do not allow the product to enter drains, sewers or waterways. Remove leaking containers to a detached area. Bund spill area. Absorb spilled product with inert material (e.g. sand, earth etc.)
Small amounts: Wash away with plenty of water.
- 6.2 Disposal: Dispose of waste in accordance with local authority bylaws.
- 6.3 Cleaning of Equipment: Clean with water.
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7. Handling and storage

- 7.1 Handling:
Measures to prevent fire and explosion: Empty containers may contain residue and can be dangerous. Do not pressurise, cut, grind, weld, braze or solder or expose empty containers to heat, flames, sparks or other sources of ignition.
Avoid eye contact. Wear chemical type goggles or safety glasses.
- 7.2 Storage:
Store away from incompatible materials and sources of heat and ignition (strong alkaline materials, strong acids, fuels, combustible materials. Do not contaminate drinking water, food or feed by storage or disposal.
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8. Exposure controls/personal protection

- 8.1 Ventilation: In processes where mists or vapours may be generated, proper ventilation must be provided in accordance with good ventilation practices.
- 8.2 Personal protective equipment:
Eye protection: Safety glasses/ goggles
Hand protection: PVC gloves
Skin and body protection: Protective clothing.
Respiratory protection: Approved respirator when vapour or mist may be generated.

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9. Physical and chemical properties

| | | |
|-----|------------------------|----------------|
| 9.1 | Form: | Aqueous liquid |
| 9.2 | Colour: | pale brown |
| 9.3 | Odour: | Slight |
| 9.4 | Boiling point (°C) : | 100 |
| 9.5 | Flash point (°C): | Not flammable |
| 9.6 | Max. % volatile: | 45 |
| 9.7 | Density at 20°C, g/ml: | 1.3 |
| 9.8 | Solubility in water: | soluble |
| 9.9 | pH: | 7.0 |

10. Stability and reactivity

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|------|-----------------------------------|--|
| 10.1 | Stability: | Stable unless heated to decomposition. |
| 10.2 | Materials to avoid: | Concentrated acids, strong alkalis, heat, combustible materials |
| 10.3 | Hazardous decomposition products: | May produce ammonia and/or nitrogen oxides if heated to decomposition. |
| 10.4 | Hazardous polymerisation: | Will not occur. |

11. Toxicological information

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|------|------------------------|--|
| 11.1 | Health Effects: | Swallowed: Irritating if swallowed |
| | Eye: | May be irritating. |
| | Skin: | May be irritating with prolonged contact. |
| | Inhaled: | Irritating if inhaled, although an unlikely route of exposure. |
| 11.2 | Acute oral toxicity: | Data unavailable although no toxic effects are to be expected when handled appropriately. LD 50 > 5000 mg/kg -Calculated from components |
| 11.3 | Acute dermal toxicity: | Data unavailable. LD 50 > 2000 mg/kg -Calculated from components |

12. Ecological Information

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|------|---|---|
| 12.1 | Persistence/degradability: | Methods for the determination of biodegradability are not applicable for inorganic compounds. |
| 12.2 | Aquatic toxicity: | Practically non toxic to aquatic life. LC 50 Fish (96 hr) > 100mg/litre |
| | Avian toxicity: | Data not available. |
| | Large spillages will exert a high oxygen demand and will damage aquatic life. | |
| | No ecological problems are to be expected when product handled with due care. | |

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13. Disposal considerations

Dispose of waste in accordance with local authority bylaws.
Disposal of empty container: Triple rinse then send to drum recycling facility.

14. Transport regulations.

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|---------------------------|--|
| U.N. Number: | Not classified as hazardous for transport. |
| Toxic Substance Schedule: | Not scheduled |
| Dangerous goods class: | Not classified as hazardous |

15. Regulatory information

No special labelling required

16. Other information

This SDS supersedes all previous issues. It summarises our best knowledge of the health and safety hazard information of the product. All users should read this SDS and consider the information in the context of how the product will be handled and used in the workplace, including in conjunction with other products. Since the actual use of this product is beyond the control of Omnia, we make no warranty, expressed or implied, concerning the use of this product. It is the responsibility of users to ascertain that the product is suitable for intended applications.

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