Safety Data Sheet

Nitrophoska Extra

Revision Date: 18/01/2017   Issue Date: 15/02/2018

Section 1: SUBSTANCE IDENTIFICATION AND SUPPLIER

<table>
<thead>
<tr>
<th>Product Name:</th>
<th>Nitrophoska Extra</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Formula:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Product Code:</td>
<td>4600000</td>
</tr>
<tr>
<td>Recommended Use:</td>
<td>Fertiliser</td>
</tr>
<tr>
<td>Company Identification:</td>
<td>Ravensdown Limited</td>
</tr>
<tr>
<td>Address:</td>
<td>292 Main South Road, Hornby, Christchurch PO Box 1049, Christchurch 8011</td>
</tr>
<tr>
<td>Customer Centre:</td>
<td>0800 100 123</td>
</tr>
<tr>
<td>National Poisons Information Centre:</td>
<td>0800 POISON (0800 764 766)</td>
</tr>
<tr>
<td>Emergency Phone Number:</td>
<td>0800 CHEMCALL (0800 243 622) (24hr) (Emergencies Only)</td>
</tr>
<tr>
<td>Transport Emergency Phone Number:</td>
<td>111 - tell operator what service is needed: Fire, Ambulance or Police</td>
</tr>
</tbody>
</table>

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]
Not classified

Adverse physicochemical, human health and environmental effects
No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]
EUH-statements: EUH210 - Safety data sheet available on request

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Comments: Fertilizer

<table>
<thead>
<tr>
<th>Name</th>
<th>Product Identifier</th>
<th>%</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
</tr>
</thead>
</table>
Nitrophoska Extra

Specific concentration limits:

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>Specific concentration limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ammonium nitrate</td>
<td>(CAS No) 6484-52-2 (EC No) 229-347-8</td>
<td>[(C &gt;= 80) Eye Irrit. 2, H319]</td>
</tr>
</tbody>
</table>

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact: Wash skin with plenty of water.
First-aid measures after eye contact: Rinse eyes with water as a precaution.
First-aid measures after ingestion: Get medical advice/attention if you feel unwell.

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

No additional information available

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

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media: Water spray.
Unsuitable extinguishing media: Carbon dioxide. extinguishing powder. Foam.

5.2. Special hazards arising from the substance or mixture


5.3. Advice for firefighters

Protection during firefighting: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures: Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection”.

6.2. Environmental precautions

Avoid release to the environment. Do not allow into drains or water courses.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Mechanically recover the product.
Other information: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

Information for safe handling. See section 7. Concerning personal protective equipment to use, see section 8. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling: Do not eat, drink or smoke when using this product. Avoid dust formation. Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with skin and eyes. Keep away from any flames or sparking source.
Hygiene measures: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a well-ventilated place. Keep cool.
Information about storage in one common storage facility: Keep away from food, drink and animal feeding stuffs. Do not store with: Organic materials.
Storage area: Protect from moisture. Store away from heat.

7.3. Specific end use(s)
No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

ammonium nitrate (6484-52-2)
DNEL/DMEL (Workers)
Long-term - systemic effects, dermal 5.12 mg/kg bodyweight/day
Long-term - systemic effects, inhalation 36 mg/m³
DNEL/DMEL (General population)
Long-term - systemic effects, oral 2.56 mg/kg bodyweight/day
Long-term - systemic effects, inhalation 8.9 mg/m³
Long-term - systemic effects, dermal 2.56 mg/kg bodyweight/day
PNèC (Water)
PNèC aqua (freshwater) 0.45 mg/l
PNèC aqua (marine water) 0.045 mg/l
PNèC aqua (intermittent, freshwater) 4.5 mg/l
PNèC (STP)
PNèC sewage treatment plant 18 mg/l

8.2. Exposure controls

Appropriate engineering controls:
Ensure good ventilation of the work station. Wash hands before break and at end of works. Avoid dust formation.

Hand protection:
EN 374. The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Nitrile rubber. Butyl rubber. Chloroprene rubber. Chemically resistant protective gloves

Eye protection:
Chemical goggles

Skin and body protection:
Wear suitable protective clothing

Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment. Dust production: dust mask with filter type P1

Environmental exposure controls:
Avoid release to the environment.

Other information:
Do not eat, drink or smoke when using this product. Do not breathe dust. Wash hands before breaks and after work. Avoid contact with skin and eyes.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Solid
Appearance: Granulate.
Colour: dark red.
Odour: none to slight.
Odour threshold: No data available
pH: No data available
Relative evaporation rate (butylacetate=1): No data available
Melting point: No data available
Freezing point: Not applicable
### Nitrophoska Extra

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>&gt; 130 °C</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapour density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinetic</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Product is not explosive.</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>Non oxidizing</td>
</tr>
<tr>
<td>Explosive limits</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

**9.2. Other information**

No additional information available

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

No dangerous reactions known. Stable under normal conditions of use.

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

No dangerous reactions known under normal conditions of use.

**10.4. Conditions to avoid**

None under recommended storage and handling conditions (see section 7).

**10.5. Incompatible materials**

Organic materials.

**10.6. Hazardous decomposition products**

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

### Acute toxicity

- ammonium nitrate (6484-52-2)
  - LD50 oral rat: 2950 mg/kg
  - LD50 dermal rat: > 5000 mg/kg
  - LC50 inhalation rat (mg/l): > 88.8 mg/l/4h

- Skin corrosion/irritation: Not classified (Based on available data, the classification criteria are not met)
- Serious eye damage/irritation: Not classified (Based on available data, the classification criteria are not met)
- Respiratory or skin sensitisation: Not classified (Based on available data, the classification criteria are not met)
- Germ cell mutagenicity: Not classified (Based on available data, the classification criteria are not met)
- Carcinogenicity: Not classified (Based on available data, the classification criteria are not met)
- Reproductive toxicity: Not classified (Based on available data, the classification criteria are not met)
- STOT-single exposure: Not classified (Based on available data, the classification criteria are not met)
- STOT-repeated exposure: Not classified (Based on available data, the classification criteria are not met)
- Aspiration hazard: Not classified (Based on available data, the classification criteria are not met)

**SECTION 12: Ecological information**

**12.1. Toxicity**
ammonium nitrate (6484-52-2)

EC50 Daphnia 1  > 490 mg/l (48h; Daphnia Magna))
EC50 other aquatic organisms 1  447 mg/l (48h; Cyprinus carpio (Common carp))
EC50 72h algae (1)  1700 mg/l (10 d; algae)

12.2. Persistence and degradability
No additional information available

12.3. Bioaccumulative potential
No additional information available

12.4. Mobility in soil
No additional information available

12.5. Results of PBT and vPvB assessment
Nitrophoska® special 12+12+17+2 MgO+8 S+TE
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects
No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Product/Packaging disposal recommendations : Do not dispose of with domestic waste. Comply with local regulations for disposal.
European List of Waste (LoW) code : 02 01 08* - agrochemical waste containing dangerous substances

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

<table>
<thead>
<tr>
<th>ADR</th>
<th>IMDG</th>
<th>IATA</th>
<th>ADN</th>
<th>RID</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.1. UN number</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>14.2. UN proper shipping name</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>14.3. Transport hazard class(es)</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>14.4. Packing group</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>14.5. Environmental hazards</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

No supplementary information available

14.6. Special precautions for user

- Overland transport
Not applicable

- Transport by sea
Not applicable

- Air transport
Not applicable

- Inland waterway transport
Not applicable

- Rail transport
Not applicable
**Nitrophoska Extra**

**Section 14.7:** Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

**Section 15: REGULATORY INFORMATION**

**EPA Approved pursuant to the HSNO Act 1996, Approval number HSR002571**

**Section 16: OTHER INFORMATION**

This Safety Data Sheet was updated on the date shown and supersedes all previous versions.

The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material. The information is provided in good faith based on current knowledge and experience. No warranty with regard to the product properties is expressed or implied.