The document is a Material Safety Data Sheet (MSDS) for the product ENHANCE. It contains information on the identification of the substance/preparation, composition, hazards identification, first-aid measures, and fire-fighting measures.

### Identification of the substance/preparation and of the company/undertaking

- **Product name**: ENHANCE
- **Supplier**: PLAASKEM (Pty) Ltd.
- **Manufacturer**: PLAASKEM (Pty) Ltd.
- **Emergency telephone number**: 011-823-8000

### Composition / information on ingredients

<table>
<thead>
<tr>
<th>Chemical name*</th>
<th>CAS No.</th>
<th>%</th>
<th>Symbol</th>
<th>R-Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trade Secret</td>
<td>1-3</td>
<td>Xi</td>
<td>R38, R41</td>
<td></td>
</tr>
<tr>
<td>Ammonium Sulphate</td>
<td>20-30</td>
<td>Xi</td>
<td>R36/37</td>
<td></td>
</tr>
</tbody>
</table>

* Occupational Exposure Limit(s), if available, are listed in section 8

### Hazards identification

- **Physical/chemical hazards**: Not applicable.
- **Human health hazards**: Harmful if swallowed.

### First-aid measures

- **Inhalation**: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
- **Ingestion**: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.
- **Skin Contact**: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
- **Eye Contact**: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.

### Fire-fighting measures

- **Extinguishing Media**
  - **Suitable**: Not applicable.
  - **Special fire-fighting procedures**: Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.
6. Accidental release measures

Personal precautions: Gloves. Safety glasses.

Environmental Precautions and Clean-up Methods:
Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

7. Handling and storage

Handling: Keep container dry. Do not ingest. Do not breathe gas/fumes/vapor/spray. Avoid contact with eyes. Never add water to this product. If ingested, seek medical advice immediately and show the container or the label.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area.

Packaging materials: Use original container.

8. Exposure controls/personal protection

Engineering measures: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Hygiene measures: Wash hands after handling compounds and before eating, smoking, using lavatory, and at the end of day.

Occupational Exposure Limits:

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Occupational Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trade Secret</td>
<td>Not available.</td>
</tr>
<tr>
<td>Trade secret 2</td>
<td>Not available.</td>
</tr>
<tr>
<td>Ammonium Sulphate</td>
<td>ACGIH (United States, 1997). TWA: 10 mg/m³ 2 times per shift, Form: Dust</td>
</tr>
</tbody>
</table>

Personal protective equipment:
- Respiratory system: A respirator is not needed under normal and intended conditions of product use.
- Skin and body: Lab coat.
- Hands: Gloves.
- Eyes: Splash goggles.

9. Physical and chemical properties

Physical state: Liquid.
Color: Dark.
Odor: Slight.

Boiling Point: The lowest known value is 100°C (212°F) (Water).
Melting Point: May start to solidify at 5°C (41°F) based on data for: Trade Secret. Weighted average: 0.15°C (32.3°F)

Density: 1.14 g/cm³
Evaporation rate (butyl acetate = 1): <1 (Trade Secret) compared to Butyl acetate.


Octanol/water partition coefficient: The product is more soluble in water.

pH: 5.7 [Acidic.]
Flash point: Not applicable.

Explosive properties: Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

10. Stability and reactivity

Stability: The product is stable.
Materials to avoid: Slightly reactive to reactive with oxidizing agents, metals.
11. Toxicological information

Local effects

Skin irritation : Not considered to be dangerous for humans according to our database.
Acute toxicity : Acute oral toxicity (LD50): 2480 mg/kg [Rat]. (Ammonium Sulphate).
Chronic toxicity : Repeated or prolonged exposure is not known to aggravate medical condition.
Specific effects

Carcinogenic effects : NO carcinogenic effect.

12. Ecological information

Persistence/degradability : Readily biodegradable
Ecotoxicity : Not available.

13. Disposal considerations

Methods of disposal; Waste of residues; Contaminated packaging : Waste must be disposed of in accordance with federal, state and local environmental control regulations.

14. Transport information

International transport regulations

UN number : Not regulated
Land - Road/Railway

Proper shipping name : Agricultural Adjuvant
ADR/RID Class : -
Packing Group : -
Sea

Proper shipping name : -
IMDG Class : -
Packing Group : -
Air

Proper shipping name : -
UN/ID Number : Not regulated.
IATA-DGR Class : -
Inland waterways

Proper shipping name : -
ADNR Classification : -
UN/NA (Europe) ADNR : Not regulated.
Packing Group : -

15. Regulatory information

EU Regulations

Hazard symbol(s) : ☠️
Classification : May be harmful if swallowed.
Risk Phrases : May be harmful if swallowed.
Safety Phrases : S2- Keep out of the reach of children.
S46- If swallowed, seek medical advice immediately and show this container or label.

16. Other information

HISTORY

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Prepared by :
Notice to Reader

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