MORDRY® Calcium 4 WD

1. **Identification of the substance/mixture and of the company/undertaking**
   - **Designation/Trade name:** MORDRY® Calcium 4 WD
   - **Use:** Process Chemical
   - **Company:** DELTA specialties - Al-Moustafa For Industries & Designs
     Swiss compound, 4th Industrial Zone, 6th of October City
     A, Republic of Egypt
     Tel. +202 330 381 15 Fax +202 330 311 81
     e-mail info@deltaspwll.com Website www.deltaspwll.com
   - **Emergency contact:** +20 106 669 3410

2. **Hazards Identification**
   According to REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
   - Flammable liquids, Category 3, H226: Flammable liquid and vapor.
   - Acute toxicity, Oral, Category 4, H302: Harmful if swallowed
   - Aspiration hazard, Category 1, H304: May be fatal if swallowed and enters airways.
   - Skin corrosion/irritation, Category 2, H315: Causes skin irritation.
   - Serious eye damage / eye irritation, Category 2, H319: Causes serious eye irritation.
   - Acute toxicity, Inhalation, Category 4, H332: Harmful if inhaled
   - Specific target P501 organ toxicity, single exposure; Respiratory tract irritation, Category 3, H335: May cause respiratory irritation.
   - Specific target P501 organ toxicity, single exposure; Narcotic effects, Category 3, H336: May cause drowsiness or dizziness.
   - Germ cell mutagenicity, Category 1B, H340: May cause genetic defects.
   - Carcinogenicity, Category 1B, H350: May cause cancer.
   - Reproductive toxicity, Category 2, H361: Suspected of damaging fertility or the unborn child.
   - Hazardous to the aquatic environment, chronic hazard, Category 2, H411: Toxic to aquatic life with long lasting effects.

   Label elements and precautionary statement:

   **Pictogram:**

   - GHS02
   - GHS07
   - GHS08
   - GHS09

   **Signal Word:** Danger

   **Hazardous statements:**
   - H226: Flammable liquid and vapor.
   - H302: Harmful if swallowed
   - H304: May be fatal if swallowed and enters airways.
   - H315: Causes skin irritation.
   - H319: Causes serious eye irritation.
   - H332: Harmful if inhaled
   - H335: May cause respiratory irritation.
   - H336: May cause drowsiness or dizziness.
   - H340: May cause genetic defects.
   - H350: May cause cancer.
   - H361: Suspected of damaging fertility or the unborn child.
   - H411: Toxic to aquatic life with long lasting effects.
   - EUH066: Repeated exposure may cause skin dryness or cracking.

   **Precautionary Statements (Prevention):**
   - P201: Obtain special instructions before use.
   - P202: Do not handle until all safety precautions have been read and understood.
   - P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233: Keep container tightly closed.
P240: Ground/bond container and receiving equipment.
P241: Use explosion-proof electrical/ventilating/lighting/equipment.
P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.
P261: Avoid breathing mist, spray, vapours.
P264: Wash skin thoroughly after handling.
P271: Use only outdoors or in a well-ventilated area.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P281: Use personal protective equipment as required.

Precautionary Statements (Response):
P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302+P352 IF ON SKIN: wash with plenty of soap and water.
P303+P361+P353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308-313: IF exposed or concerned: Get medical advice/attention.
P312: Call a POISON CENTER or doctor/physician if you feel unwell.
P331: Do NOT induce vomiting.
P332+P313: IF SKIN irritation occurs: Get medical advice/attention.
P337+P313: If eye irritation persists: Get medical advice/attention.
P362: Take off contaminated clothing and wash before reuse.
P370-378: In case of fire: Use water spray, carbon dioxide, dry chemical or foam for extinction.
P391: Collect spillage. Hazardous to the aquatic environment.

Precautionary Statements (Storage):
P403+P235: Store in a well-ventilated place. Keep cool.
P233: Keep container tightly closed.
P405: Store locked up.

Precautionary Statements (Disposal):
P501: Dispose of contents/container to hazardous or special waste collection point.

3. Composition/Information on Ingredients

Chemical nature
Preparation based on: metal carboxylate in organic solvent

Hazardous ingredients (GHS)

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS number</th>
<th>EINECS number</th>
<th>Wt %</th>
<th>Classification*(2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEG 400 monotallate</td>
<td>61791-00-2</td>
<td>--------------</td>
<td>1-5</td>
<td>H227</td>
</tr>
<tr>
<td>2-Ethylhexanol</td>
<td>104-76-7</td>
<td>203-234-3</td>
<td>1-5</td>
<td>H315, H319</td>
</tr>
<tr>
<td>Calcium 2 ethylhexanoate</td>
<td>136-51-6</td>
<td>205-249-0</td>
<td>30-60</td>
<td>H332, H336, H315, H319, H335</td>
</tr>
<tr>
<td>Naphtha (petroleum), Hydrosulphurized heavy</td>
<td>64742-82-1</td>
<td>265-185-4</td>
<td>45-70</td>
<td>H226, H304, H315, H336, H340, H350, H361, H411</td>
</tr>
</tbody>
</table>
Material Safety Data Sheet
according to Regulation (EC) No. 453/2010
Product name: MORDRY® Calcium 4 WD
First issued: 30.06.2015 Last revised: 30.06.2015

*1(1) .. Classification according to Directive 67/548/EEC
*1(2) .. Classification according to Regulation (EC) No.1272/2008 [CLP]
The wording of the hazard symbols and R-phrases is specified in chapter 15 if dangerous ingredients are mentioned.

4. First-Aid Measures
General advice
Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.
If inhaled
Move to fresh air. Treat symptomatically. Get medical attention if symptoms persist.
On skin contact
Immediately wash with plenty of soap and water.
On contact with eyes
Generally the product does not irritate eyes.
On ingestion
Rinse mouth and Seek medical attention.
Note to physician
Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures
Suitable extinguishing media
dry powder, foam, carbon dioxide or water spray.
Specific hazards
Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.
Special protective equipment
Wear a self-contained breathing apparatus.
Further information
The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. Accidental Release Measures
Personal precautions
Use personal protective clothing. Breathing protection required.
Environmental precautions
Do not discharge into drains/surface waters/groundwater.
Methods for cleaning up or taking up
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents.

7. Handling and Storage
Handling
Store in cool, dry place in tightly closed receptacles.
Protection against fire and explosion
Keep ignition sources away - Do not smoke. Protect against electrostatic charges.
Storage
Further information on storage conditions: Keep container tightly closed and in a cool place. Avoid freezing.

8. Exposure Controls/Personal Protection
Personal protective equipment
Hand protection: PVC disposable gloves. Break through time: 120 min. The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Eye protection: Use tightly fitting safety goggles.
Skin and body protection: impervious clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place.
9. Physical and Chemical Properties

Form: Liquefied
Colour: Yellowish
Odour: Solvent odour
Boiling point: >149 °C
Flash point: > 47 °C
Lower explosion limit: Not determined
Upper explosion limit: Not determined
Ignition Temp.: Not determined
Self ignition: Not self igniting
Vapour pressure: 10.7 hPa
Density: 850 - 1000 kg/m³
Solubility in water: Immiscible.

10. Stability and Reactivity

Conditions to avoid
Extremely high or low temperatures. Precautions other than good housekeeping of chemicals.

Hazardous decomposition products
No hazardous decomposition products if stored and handled as prescribed/indicated.

11. Toxicological Information

Acute toxicity
Experimental/calculated data:
- LD₅₀ rat (Oral): 5000 mg/kg
- LC₅₀ rat (Inhalation): 20 mg/l
- LD₅₀ rabbit (Dermal): 5000 mg/kg

The product has not been tested. The statement has been derived from the properties of the individual components.

Primary irritant effect:
On the skin: Irritant to skin.
On the eye: Irritant to eyes.
Sensitization: Not sensitizing to skin.

Additional toxicological information:
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Danger.

12. Ecological Information

Additional information
Other ecotoxicological advice:
The product has not been tested. The statements on ecotoxicology have been derived from products of a similar structure and composition.

13. Disposal Considerations

Must be dumped or incinerated in accordance with local regulations.

Contaminated packaging
Uncontaminated packaging can be re-used.
Packs that cannot be cleaned should be disposed of in the same manner as the contents.
14. **Transport Information**

Land transport ADR/RID (cross border)

- **ADR/RID class**: 3 Flammable
- **Danger code (Kemler)**: 30
- **UN-number**: 1993
- **Packaging group**: III
- **Hazard label**: 3
- **Description of goods**: 1993 FLAMMABLE LIQUID, N.O.S., special provision 640E

Maritime transport IMDG:

- **IMDG class**: 3 Flammable
- **UN-number**: 1993
- **Packaging group**: III
- **Hazard label**: 3
- **EMS-number**: F-E, S-E
- **Marine pollutant**: Yes
- **Proper shipping name**: FLAMMABLE LIQUID, N.O.S. special provision 640E

Air transport ICAO-TI and IATA-DGR:

- **ICAO/IATA class**: 3 Flammable
- **UN/ID number**: 1993
- **Label**: 3
- **Proper shipping name**: FLAMMABLE LIQUID, N.O.S. special provision 640E

15. **Regulatory Information**

**Regulations of the European union (Labelling) / National legislation/Regulations**

**EEC Directives:**

- **R-hrase(s):**
  - R10: Flammable
  - R20/22: Harmful by inhalation and if swallowed.
  - R36/37/38: Irritating to eyes, respiratory system and skin.
  - R63: Possible risk of harm to the unborn child
  - R65: Harmful: may cause lung damage if swallowed.
  - R66: Repeated exposure may cause skin dryness or cracking.

- **H-statement(s):**
  - H226: Flammable liquid and vapor.
  - H302: Harmful if swallowed.
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16. **Other Information**

- **Flam. Liq. 1**: Flammable
- **Asp. Tox. 1**: Aspiration hazard.
- **Acute Tox. 4**: Acute toxicit, Oral.
- **Acute Tox. 4**: Acute toxicit, Inhalation.
- **Skin Irrit. 2**: Skin corrosion/irritation.
- **Eye Irrit. 2**: Eye corrosion/irritation.
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STOT-SE 3  Specific target P501 organ toxicity, single exposure; Narcotic effects.
Muta. 1B    Germ cellmutagenicity.
Carc. 1B    Carcinogenicity.
Repr. 2     Reproductive toxicity.
Aquatic Chronic 1 Hazardous to the aquatic environment, Chronic hazard,
STOT-SE 3  Specific target P501 organ toxicity, single exposure; Respiratory tract irritation.

The data contained in this material safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements.

The data do not describe the product specifications. Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the material safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

DELTA specialties team
Cairo 30.06.2015