1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Dissolvine E-Mg-6

Product Use Description : Chelating agent
                        Plant nutrient

Chemical characterization : Ethylenediaminetetraacetic acid, magnesium disodium complex

Company : Akzo Nobel Functional Chemicals LLC
         525 West Van Buren Street
         Chicago IL 60607-3823
         USA

Telephone : +18009067979
Fax : +13125447167
E-mail address : sds_chelates@akzonobel.com
Emergency telephone : Emergency AkzoNobel Chemicals-Deventer-NL T +31 570 679211

2. HAZARDS IDENTIFICATION

Emergency Overview

<table>
<thead>
<tr>
<th>Appearance</th>
<th>granular</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>white</td>
</tr>
<tr>
<td>Odor</td>
<td>odorless</td>
</tr>
<tr>
<td>Hazard Summary</td>
<td>Risk of dust explosion.</td>
</tr>
</tbody>
</table>

GHS Classification

Not a hazardous substance or mixture.

GHS Label element

Not a hazardous substance or mixture.

Potential Health Effects

Inhalation : Product dust may be irritating to respiratory system.
Skin : Product dust may be irritating to skin.
Eyes : Product dust may be irritating to eyes.
Ingestion : Not expected to be irritating.
Aggravated Medical Condition: None known.

Symptoms of Overexposure: The symptoms and effects are as expected from the hazards as shown in section 2. No specific product related symptoms are known.

Carcinogenicity:

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

ACGIH: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
3. COMPOSITION/INFORMATION ON INGREDIENTS
   No hazardous ingredients

4. FIRST AID MEASURES
   General advice : No hazards which require special first aid measures.
   Inhalation : Remove to fresh air.
               Keep patient warm and at rest.
               Rinse nose and mouth with water.
   Skin contact : Remove contaminated clothing and shoes.
                  Rinse with water.
   Eye contact : Rinse with plenty of water.
                Remove contact lenses.
                Protect unharmed eye.
                Keep eye wide open while rinsing.
   Ingestion : Clean mouth with water and drink afterwards plenty of water.
             Never give anything by mouth to an unconscious person.

   Notes to physician
   Symptoms : The symptoms and effects are as expected from the hazards
              as shown in section 2. No specific product related symptoms
              are known.
   Treatment : Treat symptomatically.

5. FIRE-FIGHTING MEASURES
   Suitable extinguishing media : Use extinguishing measures that are appropriate to local
                                 circumstances and the surrounding environment.
   Specific hazards during fire fighting / Specific hazards arising from the chemical :
                                 Risks of ignition followed by flame propagation or secondary
                                 explosions shall be prevented by avoiding accumulation of
dust, e.g. on floors and ledges.
   Combustion products : Fire will produce smoke containing hazardous combustion
                          products (see section 10).
   Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.
   Further information : Standard procedure for chemical fires.

See also Section 9. Physical and chemical properties: Safety data

6. ACCIDENTAL RELEASE MEASURES
   Personal precautions : Avoid dust formation.
   Environmental precautions : No special environmental precautions required.
   Methods for cleaning up / : Sweep up and shovel.
Methods for containment
Keep in suitable, closed containers for disposal.

Additional advice
For personal protection see section 8.

7. HANDLING AND STORAGE

Handling
Advice on safe handling
For personal protection see section 8.
Avoid creating dust.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
No special handling advice required.

Advice on protection against fire and explosion
Provide appropriate exhaust ventilation at places where dust is formed.
No sparking tools should be used.

Storage
Requirements for storage areas and containers
Keep in a dry place.
Store at room temperature in the original container.
Keep container tightly closed.

Advice on common storage
No special restrictions on storage with other products.

Other data
No decomposition if stored and applied as directed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines
Contains no substances with occupational exposure limit values.

Engineering measures
Provide appropriate exhaust ventilation at places where dust is formed.

Personal protective equipment
Eye/face protection
Safety glasses

Hand protection
Glove material: Nitrile rubber

Respiratory protection
No personal respiratory protective equipment normally required.
In the case of dust, vapor or aerosol formation use respirator with an approved filter.
Half mask with a particle filter P2 (EN 143)

Hygiene measures
General industrial hygiene practice.

Environmental exposure controls
General advice
No special environmental precautions required.
9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance**
- Form: granular
- Color: white
- Odor: odorless
- Odor Threshold: Not applicable

**Safety data**
- **pH**: 6.5 - 7 % (water)
- **Melting point**: Decomposes before melting.
- **Boiling point/boiling range**: Not applicable
- **Flash point**: Not applicable
- **Ignition temperature**: $\geq 200 \, ^\circ C$
  Method: Auto-ignition of a 5mm dust layer according to EN 50281-2-1
- **Evaporation rate**: Not applicable
- **Flammability (solid, gas)**: Not classified as a flammability hazard
- **Lower explosion limit**: $\geq 40 \, g/m^3$
- **Upper explosion limit**: Not applicable
- **Vapor pressure**: Not applicable
- **Relative vapor density**: Not applicable
- **Relative density**: No data available
- **Bulk density**: 600 - 800 kg/m$^3$
- **Water solubility**: ca. 900 g/l
- **Solubility in other solvents**: No data available
- **Partition coefficient: n-octanol/water**: log Pow: $< 0$
- **Autoignition temperature**: No data available
- **Decomposition temperature**: No data available
- **Viscosity, dynamic**: Not applicable
- **Viscosity, kinematic**: Not applicable
- **Explosive properties**: Not explosive
- **Oxidizing properties**: Not classified as oxidizing.
This material safety datasheet only contains information relating to safety and does not replace any product information or product specification.

10. STABILITY AND REACTIVITY

Conditions to avoid: None known.

Materials to avoid: None known.

Hazardous decomposition products: Carbon oxides, nitrogen oxides (NOx)

Thermal decomposition: No data available

Reactivity: Stable under normal conditions

Chemical stability: Stable under recommended storage conditions

Hazardous reactions: Dust may form explosive mixture in air.

11. TOXICOLOGICAL INFORMATION

PRODUCT INFORMATION:

Toxicology Assessment
Further information: No further data available.

Carcinogenicity:
IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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12. ECOLOGICAL INFORMATION

PRODUCT INFORMATION:

Ecotoxicology Assessment
Additional ecological information: None known.

Further information on ecology
Hazardous to the ozone layer Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

13. DISPOSAL CONSIDERATIONS
Contaminated packaging: Empty remaining contents. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

International Regulation

ADR
Not regulated as a dangerous good

UNRTDG
Not regulated as a dangerous good

IATA-DGR
Not regulated as a dangerous good

IMDG-Code
Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

Further information for transport
Not classified as dangerous in the meaning of transport regulations.

Domestic regulation

49 CFR
Not regulated as a dangerous good

TDG
Not regulated as a dangerous good

NOM-002-SCT
Not regulated as a dangerous good

15. REGULATORY INFORMATION

Notification status

CH INV: NO. Not in compliance with the inventory
TSCA: NO. This product either contains a chemical substance that is not listed on the public TSCA Inventory or the TSCA Inventory status of the product has not been evaluated.
DSL: NO. This product contains the following components that are not on the Canadian DSL nor NDSL.
AICS: NO. Not in compliance with the inventory
NZoC: YES. On the inventory, or in compliance with the inventory
ENCS: NO. Not in compliance with the inventory
ISHL: NO. Not in compliance with the inventory
KECI: NO. Not in compliance with the inventory
PICCS: NO. Not in compliance with the inventory
Dissolvine E-Mg-6

IECSC : NO. Not in compliance with the inventory
For explanation of abbreviations, see section 16.
TSCA list : Not relevant
OSHA Hazards : Combustible dust

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity
This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity
This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act
This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).
This product does not contain any chemicals subject to disclosure and listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).
This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act
This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.
This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.
This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

Massachusetts Right To Know
No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know

<table>
<thead>
<tr>
<th>Chemical &amp; CAS Number</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylenediaminetetraacetic acid, magnesium-disodium complex</td>
<td>14402-88-1</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
</tr>
</tbody>
</table>

New Jersey Right To Know

<table>
<thead>
<tr>
<th>Chemical &amp; CAS Number</th>
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California Prop. 65
Dissolvine E-Mg-6

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

16. OTHER INFORMATION

Further information

HMIS Classification
- Health Hazard: 0
- Flammability: 0
- Physical hazards: 0

NFPA Classification
- Health Hazard: 0
- Fire Hazard: 0
- Reactivity Hazard: 0

Notification status explanation

REACH 1907/2006 (EU)
CH INV Switzerland. New notified substances and declared preparations
TSCA United States TSCA Inventory
DSL Canadian Domestic Substances List (DSL)
AICS Australia Inventory of Chemical Substances (AICS)
NZIoC New Zealand. Inventory of Chemical Substances
ENCS Japan. ENCS - Existing and New Chemical Substances Inventory
ISHL Japan. ISHL - Inventory of Chemical Substances
KECI Korea. Korean Existing Chemicals Inventory (KECI)
PICCS Philippines Inventory of Chemicals and Chemical Substances (PICCS)
IECSC China. Inventory of Existing Chemical Substances in China (IECSC)

Further information

Revision Date 04/25/2015

The information in this material safety data sheet should be provided to all who will use, handle, store, transport or otherwise be exposed to this product. The user must determine the appropriate measures that need to be implemented for the use and handling of this product in the context of the user's operations and use of this product. The information contained herein supersedes all previously issued bulletins on the subject matter covered. If the date on this document is more than three years old, call to make certain that this sheet is current. No warranty is made as to the product's merchantability or fitness for any particular purpose, or that any suggested use will not infringe any patent. User must determine for himself, by preliminary tests or otherwise, the suitability of this product for his purposes, including mixing with other products. Nothing contained herein shall be construed as granting or extending any license under any patent.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates
only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.