

SAFETY DATA SHEET

Dissolvine E-Mn-13

Version 1 Revision Date 04/25/2015 Print Date 05/15/2015 US / Z8

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Dissolvine E-Mn-13

Product Use Description : Chelating agent

Plant nutrient

Chemical characterization : Ethylenediaminetetraacetic acid, manganese dipotassium

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

Appearance	granular
Color	off-white
Odor	odorless
Hazard Summary	Risk of dust explosion.

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.

Version 1 Revision Date 04/25/2015 Print Date 05/15/2015 US / Z8

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.

Version 1 Revision Date 04/25/2015 Print Date 05/15/2015 US / Z8

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.

Version 1 Revision Date 04/25/2015 Print Date 05/15/2015 US / Z8

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.

Version 1 Revision Date 04/25/2015 Print Date 05/15/2015 US / Z8

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form : granular

Color : off-white

Odor : odorless

Odor Threshold : Not applicable

Safety data

pH : 6 - 7 1% (water)

Melting point : Decomposes before melting.

Boiling point/boiling range : Not applicable

Flash point : Not applicable

Ignition temperature : >= 200 °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 : >= 40 g/m3

Upper explosion limit : Not applicable

Vapor pressure : Not applicable

Relative vapor density : Not applicable

Relative density : No data available

Bulk density : 600 - 800 kg/m3

Water solubility : ca. 800 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.

Version 1 Revision Date 04/25/2015 Print Date 05/15/2015 US / Z8

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.

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.

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

Version 1 Revision Date 04/25/2015 Print Date 05/15/2015 US / Z8

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

NZIoC : 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

Version 1 Revision Date 04/25/2015 Print Date 05/15/2015 US / Z8

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

Ethylenediaminetetraacetic acid,	15375-84-5	90 - 100 %
manganese-disodium complex		
Water	7732-18-5	5 - 10 %

New Jersey Right To Know

Ethylenediaminetetraacetic acid, 15375-84-5 90 - 100 % manganese-disodium complex

Water 7732-18-5 5 - 10 %

California Prop. 65

Version 1 Revision Date 04/25/2015 Print Date 05/15/2015 US / Z8

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

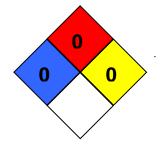
Further information

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 c ontext 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

Version 1 Revision Date 04/25/2015 Print Date 05/15/2015

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.

US / Z8

10 / 10