

## Safety Data Sheet

### Elan-tron W H3003 (H3003 Hardener)



Safety Data Sheet dated 2/2/2009, version 1, #3658

#### 1. DESIGNATION OF PRODUCT AND COMPANY

Trade name	Elan-tron W H3003 (H3003 Hardener)
Chemical description:	Cycloaliphatic and aliphatic amine based compound.
Supplier:	Elantas Camattini spa - Via Antolini 1 - 43044 Collecchio (PR) www.elantas.com; info.elantas.camattini@altana.com
Emergency telephone number:	0039/521/304711 fax 0039/521/804679 - 804410
Competent person responsible for the safety data sheet:	MSDS.elantas.camattini@altana.com

#### 2. HAZARDS IDENTIFICATION

The product is harmful following acute exposure to it and poses a serious health threat if ingested. The product is highly corrosive and, if brought into contact with the skin, causes serious burning, with the rapid destruction of the entire thickness of skin tissue.

If inhaled, the product causes irritation in the airways.

If brought into contact with the skin, the product may cause sensitisation of the skin.

This product is a threat to the environment; it is harmful to aquatic organisms following acute exposure.

In the long term this product may have negative effects on the aquatic environment, because it is not easily biodegradable and/or bioaccumulable.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components under the EEC directive 67/548 or components for which European Community exposure values exists:

50% - 75% Polyoxypopylendiamin

CAS: 9046-10-0

C; R34

10% - 20% 4-tert-butylphenol

CAS: 98-54-4 EC: 202-679-0

Xi,N; R36/37/38-51-53

10% - 20% 2,2,4-(2,4,4-)Trimethylehexamethylenediamine

CAS: 25620-58-0 EC: 247-134-8

Xn,Xi,C; R22-34-43-52-53

5% - 10% 2-piperazin-1-ylethylamine

N.67/548/EEC: 612-105-00-4 CAS: 140-31-8 EC: 205-411-0

Xn,Xi,C; R21/22-34-43-52-53

5% - 10% M-phenylenebis(methylamine)

CAS: 1477-55-0 EC: 216-032-5

Xn,Xi,C; R20/22-35-43-52-53

< 5 % nonylphenol

N.67/548/EEC: 601-053-00-8 CAS: 25154-52-3 EC: 246-672-0

Repr. Cat. 3,Xn,C,N; R22-34-50-53-62-63

< 5% 2,4,6-tris(dimethylaminomethyl)phenol

N.67/548/EEC: 603-069-00-0 CAS: 90-72-2 EC: 202-013-9

Xn,Xi; R22-36/38

#### 4. FIRST-AID MEASURES

Contact with skin:

Immediately take off all contaminated clothing.

Remove the product with a cloth or absorbent paper. Do not use solvents.

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Wash with plenty of water and soap.

Seek medical advice.

Contact with eyes:

Wash immediately and thoroughly with running water, keeping eyelids raised, for at least 10 minutes. Following this, protect the eyes with sterile gauze or a clean, dry, handkerchief. Seek medical advice.

Do not use eyewash or ointment of any kind before obtaining an examination or advice from an ophthalmologist.

Swallowing:

Do not under any circumstance induce vomiting. Seek medical advice immediately.

Inhalation:

Ventilate the premises. The patient is to be removed immediately from the premises contaminated and made to rest in a well ventilated area. Should the patient feel unwell, consult a physician.

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## 5. FIRE FIGHTING MEASURES

Recommended extinguishers:

CO<sub>2</sub>, Foam, Chemical powders or sand. Use water based extinguishing media with caution.

Extinguishers not to be used:

None in particular.

Risks arising from combustion:

Avoid inhaling the fumes. Incomplete combustion releases toxic gases.

Protective equipment:

Use protection for the airways.

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## 6. MEASURES IN CASE OF ACCIDENTAL RELEASE

Measures for personal safety:

Use gloves and protective clothing.

Environmental measures:

Limit leakages with earth or sand.

If the product has flown off into a water course, into the drainage system, or has contaminated the ground or vegetation, notify the responsible authorities.

Cleaning methods:

Rapidly collect the product. To do so, wear a mask and protective clothing.

If the product is in a liquid form, stop it from entering the drainage system.

Recover the product for re-use if possible, or for elimination in compliance with waste disposal regulations in force. The product might, where appropriate, be absorbed by inert material.

After the product has been removed, rinse the involved area and materials with water that must be disposed in compliance with regulations in force.

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## 7. HANDLING AND STORAGE

Handling precautions:

Avoid contact with and inhalation of vapours and/or dusts. See also paragraph 8 below.

Do not eat or drink or smoke while working. Wash hands before breaks and at the end of work. Maintain a sufficient personal care.

Incompatible materials:

The product reacts with acids, isocyanates, oxidants and epoxy, chlorinated and carbonylic compounds

Storage conditions:

The product is moisture sensitive. Keep in a dry place in the original containers tightly closed.

Instructions regarding storage facilities:

Avoid exposition to low temperature (T > 15°C).

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## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

Precautionary measures:

Provide adequate ventilation to the areas where the product is stored and/or handled.

Respiratory protection:

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Required where ventilation/aspiration is insufficient or exposure is prolonged, or for applications in which the product is sprayed or heated.

Required in case of machining or applications that release dusts.

Protection for hands:

Use protective gloves.

For an extended exposure of the product, wear nitrile/neoprene gloves.

Eye protection:

Required in case of machining or applications that release dusts.

Not needed for normal use.

Protection for skin:

Use clothing that provides complete protection to the skin.

Available Exposure Limits (ACGIH) for substances of section 2:

None

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and colour:	Pale yellow liquid
Odour:	Amoniacal
pH:	n.d.
Melting point:	N.A.
Boiling point:	> 200 °C
Flash point:	> 110 °C (DIN 51758)
Explosive properties:	N.A.
Combustion-related properties:	N.A.
Vapour pressure:	n.d.
Specific gravity ASTM D 1475:	0,96 gr/ml (25°C)
Solubility in water:	Soluble
Lipid solubility:	N.A.
Partition coefficient (n-octanol/H <sub>2</sub> O) :	n.d.
Dynamic viscosity EN13702-2:	15 - 30 mPa.s (25°C)
Vapour density:	N.A.

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## 10. STABILITY AND REACTIVITY

Conditions to avoid:

Stable under normal conditions.

Substances to avoid:

None in particular.

Hazardous decomposition products:

None in particular.

It may generate toxic gases on contact with oxidising mineral acids, halogenated organic substances, organic peroxides and hydroperoxides, and powerful oxidising agents.

Upon combustion CO, CO<sub>2</sub>, NH<sub>3</sub>, NO<sub>x</sub> and other nitrogen containing compounds are formed.

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## 11. TOXICOLOGICAL INFORMATION

No toxicological data related to the preparation are available.

When available, the toxicological information relating to the main components are listed below.

Polyoxypropylendiamin

Acute toxicity:

LD<sub>50</sub> (oral): 2.880 mg/kg (rat)

LC<sub>50</sub> (dermal): 2.980 mg/kg (rabbit)

Cronic toxicity:

Can cause dermatites. Lung damage may be caused by repeated and prolonged exposure to the product.

Sensitization: not sensitizing.

Irritating to skin (corrosive): Draize Method 6,40-8.00/8.0 (rabbit)

Irritating to eyes (irritant): Draize Method 80.00-110.00/110 (rabbit)

2,2,4-(2,4,4-)Trimethylehexamethylenediamine

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LD50 (oral): > 900 mg/kg (rat)

Vapours are irritating to the respiratory system.

2-piperazin-1-ylethylamine

LD50 (oral): > 2.000 mg/kg (rat)

LC50 (dermal): > 800 mg/kg (rabbit)

Not mutagen

nonylphenol

LD50: rat (oral) 1620-1882 mg/kg

LD50: rabbit (dermal) 2140 mg/kg

2,4,6-tris(dimethylaminomethyl)phenol

oral LD50, rat 1670 mg/kg

dermal LD50, rabbit 1242 mg/kg

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## 12. ECOLOGICAL INFORMATION

Adopt sound working practices, so that the product is not released into the environment.

When available, the toxicological information relating to the main components are listed below.

Polyoxypropylendiamin

Leuciscus idus/CL50 (96h) > 220 mg/l

Not readily biodegradable.

2,2,4-(2,4,4-)Trimethylehexamethylenediamine

Not expected to be biodegradable.

Acute toxicity LC/EC/IC 50 : > 30 mg/l

2-piperazin-1-ylethylamine

Acute Toxicity

LC50-96h (Poecilia reticulata) > 1800mg/l

EC50-48h (Daphnia magna): 58 mg/l

IC50-72h (Selenastrum capricornutum): 494 mg/l

EC50 (Pseudomonas putida) >1000 mg/l

Not easily biodegradable

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## 13. DISPOSAL CONSIDERATIONS

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

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## 14. TRANSPORT INFORMATION

UN number: 1760

Proper shipping name: Liquid CORROSIVO, N.A.S. (Trimetilesametilendiammina)/  
CORROSIVE LIQUID, N.O.S. (Trimethylenhexamethylenediamine)

Road/Rail (ADR/RID): 8 II

Sea (IMDG): 8 II

Sea (EmS): F-A, S-B

Air (ICAO/IATA): 8 II

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## 15. REGULATORY INFORMATION

Council Directive 67/548/EEC (Classification, packaging and labelling of dangerous substances) and subsequent amendments. Commission Directive 1999/45/EC (Classification, packaging and labelling of dangerous preparation) and subsequent amendments. Commission Directive 98/24/EC (Protection of the health and safety of workers from the risk related to chemical agent). Commission Directive 2000/39/EC (Occupational exposure limit values). Regulation (EC) No 1907/2006 (REACH).

Symbols:

C Corrosive

R Phrases:

R22 Harmful if swallowed.

R35 Causes severe burns.

R37 Irritating to respiratory system.

R43 May cause sensitization by skin contact.

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R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Contents:

M-phenylenebis(methylamine)  
4-tert-butylphenol  
Polyoxypropylendiamin  
2,2,4-(2,4,4-)Trimethylehexamethylenediamine  
2-piperazin-1-ylethylamine

Where applicable, refer to the following regulatory provisions :

Directive 98/24/CE

Directive 91/156/EC; 91/689/EC; 94/62/EC (waste disposal).

Activities linked to risks of serious accidents

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## 16. OTHER INFORMATION

R20/22 Harmful by inhalation and if swallowed.

R21/22 Harmful in contact with skin and if swallowed.

R22 Harmful if swallowed.

R34 Causes burns.

R35 Causes severe burns.

R36/37/38 Irritating to eyes, respiratory system and skin.

R36/38 Irritating to eyes and skin.

R43 May cause sensitization by skin contact.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R62 Possible risk of impaired fertility.

R63 Possible risk of harm to the unborn child

Main bibliographic sources:

NIOSH - Registry of toxic effects of chemical substances

I.N.R.S. - Fiche Toxicologique

ACGIH - Threshold Limit Values

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific intended use.

This MSDS cancels and replaces any previous releases.

The information contained herein is based on what we believe to be reliable data, but it is presented without guarantee or warranty by our part and Elantas Camattini spa disclaims any liability incurred from the use thereof.

Nothing contained herein is to be construed as recommendations for use in violation of any existing patent, foreign or domestic, or of applicable laws and regulations.

Please contact Elantas Camattini spa for further information about the product and its use.

It is recommended to give this MSDS to customers and handlers.