

SAFETY DATA SHEET (1907/2006/EC)

Edition from 06.03.2008

Replaces Edition from 24.10.2005

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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance or preparation

Chemical description Aqueous composition containing modified dimethyloldihydroxyethyleneurea and inorganic magnesium salt
Amphoteric

Use of the substance/preparation

Textile chemical

Company/undertaking identification

Product responsibility

Responsible department

Product EHS

Supplier

Emergency telephone

All relevant information is listed: Content, CAS, symbol, and R-Phrases

2. HAZARDS IDENTIFICATION

May cause sensitisation by skin contact

3. COMPOSITION / INFORMATION ON INGREDIENTS

Information on ingredients	Content	CAS-No.	Symbol	R-Phrases
- Diethylene glycol EC No. 203-872-2	5.0-7.5 %	111-46-6	Xn	22
- Formaldehyde EC No. 200-001-8	< 0.5 %	50-00-0	T	23/24/25-34-40-43
- Methanol EC No. 200-659-6	1.0-2.5 %	67-56-1	F,T	11-23/24/25-39/23/24/25

4. FIRST-AID MEASURES

Inhalation

Move to fresh air. Seek medical attention if you feel unwell or if exposure prolonged.

Skin contact

Remove contaminated clothing. Wash affected skin with soap and plenty

Eye contact	of water. Rinse immediately with plenty of water for at least 10 minutes. Seek medical attention.
Ingestion	Instantly call for doctor.
Advice for the doctor	Symptomatic treatment

5. FIRE-FIGHTING MEASURES

Fire extinguishing agents	Choose extinguishing agents taking into account the surroundings
Restrictions	No restrictions.
Fire/explosion hazard	None
Main combustion gas	Carbon and nitrogen oxides
Personal protection	Self contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal protection	Tightly fitting safety goggles Chemical resistant protective gloves (EN 374). Observe glove manufacturers instructions. Keep unprotected persons away
Environmental precautions	Prevent material from reaching sewage systems, holes and cellars. Do not allow to enter the ground/soil.
Spillage procedure	Contain with suitable absorbent material. Scoop into marked containers for disposal as chemical waste.

7. HANDLING AND STORAGE

Handling	
Occupational hygiene	Avoid ingestion, inhalation, skin and eye contact. Handle in accordance with good industrial hygiene practice and any legal requirements.
Storage	
Fire precautions	No special measures required
Storage facilities	Store in a cool, dry area with adequate ventilation
Segregation	No special precautions.
Storage conditions	Sensitive to heat over 40 °C. Sensitive to cold under -10 °C. Ensure good ventilation/exhaustion at the workplace Keep containers closed.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure limit values	
Components with occupational exposure limits	See national regulations
• Methanol	
Threshold Limit (EU)	200 ppm 260 mg/m3

Exposure Controls

Occupational exposure controls

General Personal Protection

Tightly fitting safety goggles
Chemical resistant protective gloves (EN 374).
Observe glove manufacturers instructions.
Keep unprotected persons away

Hand protection

Recommended: permeation time >30 min. (level 2), material e.g. butyl or neopren.
In case of prolonged direct contact: >480 minutes permeation time (level 6), material e.g. butyl or nitrile.

9. PHYSICAL AND CHEMICAL PROPERTIES

General information

Appearance

Form	Liquid
Colour	Clear
Odour	Faint formaldehyde

Important health safety and environmental information

pH	2 - 3	as is
Boiling point	> 100 °C	
Flash point	Not applicable	
Oxidising properties	None	
Vapour pressure	23 hPa	at 20 °C
Density	1.225 - 1.245 g/cm ³	20 °C
Solubility in water	Miscible	
Viscosity		
- dynamic viscosity	< 50 mPa.s	at 20 °C

Other information

Melting point	No data
Thermal decomposition	No data
Ignition temperature	No data

10. STABILITY AND REACTIVITY

Conditions to avoid	No dangerous reactions known.
Materials to avoid	Incompatible with strong acids,alkalines and oxidisers
Hazardous decomposition products	None known if product is used according to recommendations

11. TOXICOLOGICAL INFORMATION

Acute toxicity

- LD50 oral	> 2000 mg/kg
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Primary irritation

(Skin)	Non-irritant
(Eye)	Non-irritant
Adverse effects in man	
Additional information	The toxicological data is based on a product with comparable composition.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Bacterial toxicity

IC50 > 300 mg/l

Daphnia toxicity EC0 500 mg/l 48 h OECD 202, part I

EC50 1000 mg/l

Summary

Persistence and degradability

Bioelimination 10-20%, DOC Analysis, OECD 302B (mod)

Behaviour in treatment plants

Additional Ecology Data

BOD5 63 mgO2/g

COD 474 mgO2/g

TOC 20 %

Nitrogen content 5.1 %

Phosphorus content 0.2 %

Organohalogen content < 5 mg/kg Chloro

Metal content Metal content under the ETAD recommended limits

Tested material A product with similar composition

Additional information

Additional ecological information with references is stated

13. DISPOSAL CONSIDERATIONS

Product disposal Incineration. Observe local regulations.

Contaminated packaging Contaminated packaging material should be disposed of identically to the product itself. Uncontaminated packaging material should be treated as household waste or as recycling material.

Additional information EU Disposal in the EU must be carried out using the appropriate waste key (EWC). This number is not given here because it is specific to the type of industry and process.

14. TRANSPORT INFORMATION

KEEP AWAY FROM FOODSTUFFS

Not classified as dangerous goods

15. REGULATORY INFORMATION

CLASSIFICATION AND LABELLING

Symbol and classification	Xi : Irritant
R-Phrases	R43 : May cause sensitisation by skin contact
S-Phrases	S24 : Avoid contact with skin S37 : Wear suitable gloves
Contains	0.2-<1% Formaldehyde
EU Guideline	1999/45/EG
VOC	Not relevant

16. OTHER INFORMATION

List of relevant R-phrases (Section 3)

R11 : Highly flammable
R22 : Harmful if swallowed
R23/24/25 : Toxic by inhalation, in contact with skin and if swallowed
R34 : Causes burns
R39/23/24/25 : Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed
R40 : Limited evidence of a carcinogenic effect
R43 : May cause sensitisation by skin contact

Recommended restrictions on use

textile, paper and leather dyes and chemicals are technical grade and unless otherwise stated or agreed are recommended only for industrial use in applications involving the pretreatment dyeing or finishing of textiles, paper or leather. Other intended uses including their use in consumer products governed by specific legislation or standards should be referred to the manufacturer. The data contained in the SDS apply only to products sold under the stated trade names. Technical information in support will be provided by at the request of competent authorities.

MSDS Changes

5. FIRE-FIGHTING MEASURES
Main combustion gas
8. EXPOSURE CONTROLS AND PERSONAL PROTECTION
Hand protection
13. DISPOSAL CONSIDERATIONS
Contaminated packaging
Additional information EU