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5. Fire-fighting measures : Product non flammable

Extinguishing media:	Use whatever is required for the surrounding area.
Specific risks:	Fires in the immediate vicinity may cause the development of dangerous vapours. Can be released in case of fire: nitrogen oxides (NO _x), carbon monoxide and carbon dioxide.
Special protective equipment:	Wear self-contained breathing apparatus.
Additional recommendations:	Do not allow fire water to penetrate into surface or ground water. Treat runoff as hazardous.

6. Accidental release measures

Personal precautions:	Wear a lab coat, protective gloves and safety goggles.
Environmental precautions:	Prevent from getting into soil, waterbodies and drains.
Methods for cleaning/absorption:	Soak up with absorbent materials such as sand, siliceous earth, acid- or universal binder. Store in special closed containers and dispose of according to local regulations. Final cleaning.

7. Handling and storage

7.1. Handling

Technical measures:	Provide adequate ventilation.
Precautions:	The usual laboratory precautions should be observed.
Handling recommendations:	Avoid contact with eyes.

7.2. Storage

Technical measures:	No special requirements.
Storage conditions:	Store protected from light, in tightly closed containers, at 2-8°C. Do not freeze the reagents. Keep sterile.
Incompatible materials:	Copper.
Packaging materials:	Do not store together with strong acids.

8. Exposure controls/personal protection

8.1. Exposure limit values

CAS N.	Chemical name	Type	Value
141-43-5	Ethanolamine	TWA TWA STEL STEL WEL (Europe) 8-hour TWA WEL (Europe) 8-hour TWA WEL (Europe) STEL WEL (Europe) STEL	3 ppm 7.6 mg/m ³ 6 ppm 15 mg/m ³ 1 ppm 2.5 mg/m ³ 3 ppm 7.6 mg/m ³

8.2. Exposure controls

8.2.1. Occupational exposure controls

Technical measures:	Local exhaust not required under normal circumstances.
Respiratory protection:	Provide adequate ventilation.

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Hand protection:	Protective gloves according to EN 374. Glove material: Natural latex-Layer thickness: 0,6 mm Breakthrough time: >480 min. Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
Eye protection:	Tightly sealed safety glasses according to EN 166.
Skin protection:	Lab coat.
Hygiene measures:	Change contaminated clothes. Wash hands before breaks and at the end of the work. Provide a conveniently located eye rinse station.
8.2.2. Environmental exposure controls	
Not available.	

9. Physical and chemical properties			
9.1. General information			
Physical state:	Liquid, aqueous clear solution		
Colour:	Blue, clear	Odour:	Odourless
9.2. Important health, safety and environmental information			
pH:	11 (at 25°C)	Relative density:	1.002 g/ml (at 20°C)
Boiling point:	Approx. 100°C	Solubility:	Fully miscible (20°C)
Flash point:	Not combustible	Partition coefficient:	Not available
Flammability (solid, gaz):	Not available	Viscosity:	Not available
Explosive properties:	Not available	Vapour density:	Not available
Oxidizing properties:	Not available	Evaporation rate:	Not available

10. Stability and reactivity	
Conditions to avoid:	Protect from excessive heat.
Materials to avoid:	Strong acids, copper.
Hazardous decomposition products:	Can be released in case of fire: nitrogen oxides (NO _x), carbon monoxide and carbon dioxide.
Other data:	No hazardous reactions known when used appropriately.

11. Toxicological information	
Acute toxicity:	Not determined.
Chronic toxicity:	Not determined.
Inhalation:	Not determined.
Skin contact:	Mild irritant.
Eye contact:	Irritation and redness may occur.

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Ingestion:	May cause irritations.
Other data:	Quantitative data about the toxicity of the product are not available. Dangerous properties cannot be excluded. However, risks are not to be expected when the product is handled by qualified and authorized personnel with the necessary precautions for chemicals/diagnostic reagents.

12. Ecological information	
12.1. Ecotoxicity:	Aquatic toxicity: In case of important spills: harmful effects on water organisms by modification of pH-value. Water hazard class: 1 = mild water pollutant
12.2. Mobility:	Not determined.
12.3. Degradability:	The following applies to ethanolamine in general: Biological degradation: > 70%/ 28 d (OECD 301 E). Product is easily biodegradable.
12.4. Bioaccumulative potential:	Not determined.
12.5. Results of PBT assessment:	Not determined.
12.6. Other hazardous effects:	Contains non-ionic surfactant (Dodecan-1-ol, ethoxylated). Do not allow to enter ground water, sewage or drains.

13. Disposal considerations	
Surplus or waste (residues) Contaminated packaging	It is advisable to avoid or reduce the generation of waste products wherever possible. Empty containers may contain product residues. Discard all waste, unused products, and contaminated packaging in accordance with current legislation. If you are in any doubt over the regulations, further information can be obtained from the competent authorities.

14. Transport information (International regulations)		
By air (IATA):	Appropriate shipping name: UN number: Risk category: Packing group:	Not restricted.
By land (European ADR):	Appropriate shipping name: UN number: Risk category: Packing group:	Not applicable.
By sea (IMDG):	Appropriate shipping name: UN number: Risk category: Packing group: Marine pollutant:	Not applicable.

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15. Regulatory information		
Symbols:	None	
R phrases:	None	
S phrases:	S25	Avoid contact with eyes.
Substances:	None	
Specific provisions and related laws:	None	
Other regulatory requirements:	In no way does this information exempt the user from knowing about or applying all the national or international regulations relating to his/her activity.	

16. Other information	
16.1. List of relevant R phrases	
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R22	Harmful if swallowed.
R34	Causes burns.
R41	Risk of serious damage to eyes.
R50	Very toxic to aquatic organisms.
16.2. Recommended restriction on use	
See specific information given in the product user information.	
16.3. Further information	
<p>This sheet is a complement to instructions for use but does not replace them. Information contained herewith is based on our current knowledge of the product, at the date shown, and is correct to the best of our knowledge.</p> <p>Furthermore, the user's attention is drawn to the dangers of using this product for anything other than its intended use. The user must accept the sole responsibility and take precautions accordingly for the use of this product.</p>	
16.4. Sources of key data	
This document has been compiled with information extracted from documents given by our raw material suppliers.	
16.5. Revision	
The sections that have been modified from the previous version are indicated by a vertical line on the left side of the table.	