

**EM-300 Ultraschallreiniger**

**SAFETY DATA SHEET**

(REACH regulation (EC) n° 1907/2006 - n° 453/2010)

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**SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1. Product identifier**

Product name : EM-300

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Precision Cleaning for Ultrasonic processes. Removing of polishing compounds.

**1.3. Details of the supplier of the safety data sheet**

Registered company name : EMAG AG

Address : Gerauer Strasse 34, 64546 Mörfelden-Walldorf

Telephone : +49 (0) 6105-40 67 80 Fax : +49 (0) 6105-40 67 81

info@emmi-nail.de

[www.emmi-nail.de](http://www.emmi-nail.de)

**1.4. Emergency telephone number : 24h/24h.**

Notrufnummer INTERNATIONAL: +49 (0) 6132 / 84463 (GBK GmbH, Ingelheim)-

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**SECTION 2 : HAZARDS IDENTIFICATION**

**2.1. Classification of the substance or mixture**

**In compliance with EC regulation No. 1272/2008 and its amendments.**

Skin irritation, Category 2 (Skin Irrit. 2, H315).

Serious eye damage, Category 1 (Eye Dam. 1, H318).

Hazardous to the aquatic environment - Chronic hazard, Category 2 (Aquatic Chronic 2, H411).

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

**In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.**

Skin irritation (Xi, R 38).

Serious eye damage (Xi, R 41).

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

**2.2. Label elements**

Detergent mixture (see section 15).

**In compliance with EC regulation No. 1272/2008 and its amendments.**

Hazard pictograms :



GHS05



GHS09

Signal Word :

DANGER

Product identifiers :

EC 931-329-6

AMIDES, C8-18 AND C18(UNSATD.),N,N-BIS(HYDROXYETHYL)

Hazard statements :

H315

Causes skin irritation.

H318

Causes serious eye damage.

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H411	Toxic to aquatic life with long lasting effects.
Precautionary statements - Prevention :	
P280	Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary statements - Response :	
P302 + P352	IF ON SKIN: Wash with plenty of water
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P362 + P364	Take off contaminated clothing and wash it before reuse.

**2.3. Other hazards**

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) >= 0.1% published by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>

The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

**SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS**

**3.2. Mixtures**

**Composition :**

Identification	(EC) 1272/2008	67/548/EEC	Note	%
INDEX: 0160 EC: 931-329-6 REACH: 01-2119490100-53-0000  AMIDES, C8-18 AND C18(UNSATD.),N,N-BIS(HYDROXYETHYL)	GHS05, GHS09 Dgr Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 M Acute = 0 Aquatic Chronic 1, H410 M Chronic = 1	Xi Xi;R38-R41		10 <= x % < 25
INDEX: 0026 CAS: 57-55-6 EC: 200-338-0 REACH: 01-2119456809-23-xxxx  PROPANE-1,2-DIOL			[1]	10 <= x % < 25
INDEX: 603_071_00_1 CAS: 111-42-2 EC: 203-868-0  2,2'-DIHYDROXYDIETHYLAMINE	GHS07, GHS05, GHS08 Dgr Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, H373	Xn Xn;R48/22-R22 Xi;R38-R41	[1]	2.5 <= x % < 10
INDEX: 0178 CAS: 102-71-6 EC: 203049-8  2,2',2"-NITRILOTRIETHANOL TRIETHANOLAMINE			[1]	2.5 <= x % <= 5
INDEX: 603_030_00_8 CAS: 141-43-5 EC: 205-483-3  2-AMINOETHANOL	GHS07, GHS05 Dgr Acute Tox. 4, H302 Skin Corr. 1B, H314 Acute Tox. 4, H332 STOT SE 3, H335	C C;R34 Xn;R20/21/22	[1]	2.5 <= x % < 10
INDEX: 0120 CAS: 139-89-9 EC: 205-381-9  HYDROXYETHYLETHYLENDIAMINTRIAC ETIC ACID, TRISODIUMSALT	GHS07, GHS05 Dgr Acute Tox. 4, H302 Eye Dam. 1, H318	Xn Xn;R22 Xi;R41		0 <= x % < 2.5

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INDEX: 0012 CAS: 61790-63-4 EC: 263-153-4  FATTY ACIDS, COCO, COMPDS. WITH DIETHANOLAMINE	GHS07 Wng Skin Irrit. 2, H315 Eye Irrit. 2, H319	Xi Xi;R36/38		0 <= x % < 2.5
INDEX: 0016 CAS: 68131-40-8  ETHOXYLATED ALCOHOL SECONDARY C11-15	GHS05 Dgr Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Dam. 1, H318 Acute Tox. 4, H332	Xn Xn;R20/21/22 Xi;R38-R41		0 <= x % < 2.5

**Information on ingredients :**

[1] Substance for which maximum workplace exposure limits are available.

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**SECTION 4 : FIRST AID MEASURES**

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

**4.1. Description of first aid measures**

**In the event of splashes or contact with eyes :**

Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open.

Regardless of the initial state, refer the patient to an ophthalmologist and show him the label.

**In the event of splashes or contact with skin :**

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

**In the event of swallowing :**

Do not give the patient anything orally.

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.

Keep the person exposed at rest. Do not force vomiting.

Seek medical attention immediately, showing the label.

If swallowed accidentally, call a doctor to ascertain whether observation and hospital care will be necessary. Show the label.

**4.2. Most important symptoms and effects, both acute and delayed**

No data available.

**4.3. Indication of any immediate medical attention and special treatment needed**

No data available.

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**SECTION 5 : FIREFIGHTING MEASURES**

Non-flammable.

**5.1. Extinguishing media**

**Suitable methods of extinction**

In the event of a fire, use :

- sprayed water or water mist

**Unsuitable methods of extinction**

In the event of a fire, do not use :

- water jet

**5.2. Special hazards arising from the substance or mixture**

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

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In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide (CO<sub>2</sub>)

#### **5.3. Advice for firefighters**

No data available.

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## **SECTION 6 : ACCIDENTAL RELEASE MEASURES**

### **6.1. Personal precautions, protective equipment and emergency procedures**

Consult the safety measures listed under headings 7 and 8.

#### **For non first aid worker**

Avoid any contact with the skin and eyes.

#### **For first aid worker**

First aid workers will be equipped with suitable personal protective equipment (See section 8).

### **6.2. Environmental precautions**

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

### **6.3. Methods and material for containment and cleaning up**

Neutralise with an acidic decontaminant.

Clean preferably with a detergent, do not use solvents.

### **6.4. Reference to other sections**

No data available.

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## **SECTION 7 : HANDLING AND STORAGE**

Requirements relating to storage premises apply to all facilities where the mixture is handled.

### **7.1. Precautions for safe handling**

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Ensure that there is adequate ventilation, especially in confined areas.

Emergency showers and eye wash stations will be required in facilities where the mixture is handled constantly.

#### **Fire prevention :**

Handle in well-ventilated areas.

Prevent access by unauthorised personnel.

#### **Recommended equipment and procedures :**

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Avoid eye contact with this mixture at all times.

Packages which have been opened must be reclosed carefully and stored in an upright position.

#### **Prohibited equipment and procedures :**

No smoking, eating or drinking in areas where the mixture is used.

### **7.2. Conditions for safe storage, including any incompatibilities**

Stock between 5 °C and 40°C in a dry, well ventilated place

#### **Storage**

Keep the container tightly closed in a dry, well-ventilated place.

The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.

#### **Packaging**

Always keep in packaging made of an identical material to the original.

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**7.3. Specific end use(s)**

No data available.

**SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. Control parameters**

**Occupational exposure limits :**

- European Union (2009/161/EU, 2006/15/EC, 2000/39/EC, 98/24/EC)

CAS	VME-mg/m3	VME-ppm	VLE-mg/m3	VLE-ppm	Notes
141-43-5	2.5	1	7.6	3	Peau

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) :

CAS	TWA	STEL	Ceiling	Definition	Criteria
111-42-2	2 mg/m3	-	-	-	-
102-71-6	5 mg/m3	-	-	-	-
141-43-5	3 ppm	6 ppm	-	-	-

- Germany - AGW (BAuA - TRGS 900, 21/06/2010) :

CAS	VME	VME	Excess	Notes
141-43-5	2 ml/m3	5,1 mg/m3	2(I)	DFG, H, Y

- France (INRS - ED984 :2008) :

CAS	VME-ppm	VME-mg/m3	VLE-ppm	VLE-mg/m3	Notes	TMP No
111-42-2	3	15	-	-	-	49.49 Bis
141-43-5	1	2.5	3	7.6	-	49, 49 Bis

- UK / WEL (Workplace exposure limits, EH40/2005, 2007) :

CAS	TWA	STEL	Ceiling	Definition	Criteria
57-55-6	150 ppm	-	-	-	-
141-43-5	3 ppm	6 ppm	-	-	-

**Derived no effect level (DNEL) or derived minimum effect level (DMEL):**

PROPANE-1,2-DIOL (CAS: 57-55-6)

**Final use:**

Exposure method:  
Potential health effects:  
DNEL :

**Workers.**

Inhalation.  
Long term systemic effects.  
186 mg of substance/m3

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Long term local effects.  
10 mg of substance/m3

**Final use:**

Exposure method:  
Potential health effects:  
DNEL :

**Man exposed via the environment.**

Inhalation.  
Long term systemic effects.  
50 mg of substance/m3

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Long term local effects.  
10 mg of substance/m3

AMIDES, C8-18 AND C18(UNSATD.),N,N-BIS(HYDROXYETHYL)

**Final use:**

Exposure method:  
Potential health effects:  
DNEL :

**Workers.**

Dermal contact.  
Long term systemic effects.  
4.16 mg/kg body weight/day

Exposure method:

Dermal contact.

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Potential health effects: Long term local effects.  
DNEL : 0.09 mg of substance/cm2

Exposure method: Inhalation.  
Potential health effects: Long term systemic effects.  
DNEL : 73.4 mg of substance/m3

**Final use:** **Consumers.**  
Exposure method: Ingestion.  
Potential health effects: Long term systemic effects.  
DNEL : 6.25 mg/kg body weight/day

Exposure method: Dermal contact.  
Potential health effects: Long term systemic effects.  
DNEL : 2.5 mg/kg body weight/day

Exposure method: Dermal contact. Potential  
health effects: Long term local effects.  
DNEL : 0.056 mg of substance/cm2

Exposure method: Inhalation.  
Potential health effects: Long term systemic effects.  
DNEL : 21.73 mg of substance/m3

**Predicted no effect concentration (PNEC):**

PROPANE-1,2-DIOL (CAS: 57-55-6)

Environmental compartment: Soil.  
PNEC : 50 mg/kg

Environmental compartment: Fresh water.  
PNEC : 206 mg/l

Environmental compartment: Sea water.  
PNEC : 26 mg/l

Environmental compartment: Fresh water sediment.  
PNEC : 572 mg/l

Environmental compartment: Marine sediment.  
PNEC : 572 mg/l

Environmental compartment: Waste water treatment plant.  
PNEC : 20000 mg/l

AMIDES, C8-18 AND C18(UNSATD.),N,N-BIS(HYDROXYETHYL)

Environmental compartment: Fresh water.  
PNEC : 7 µg/l

Environmental compartment: Sea water.  
PNEC : 0.7 µg/l

Environmental compartment: Intermittent waste water.  
PNEC : 24 µg/l

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Environmental compartment: Waste water treatment plant.  
PNEC : 0.83 g/l

**8.2. Exposure controls**

**Personal protection measures, such as personal protective equipment**

Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

**- Eye / face protection**

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles with protective sides accordance with standard EN166.

In the event of high danger, protect the face with a face shield.

Prescription glasses are not considered as protection.

Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.

Provide eyewash stations in facilities where the product is handled constantly.

**- Hand protection**

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended :

- Butyl Rubber (Isobutylene-isoprene copolymer)

- Natural latex

- PVA (Polyvinyl alcohol)

Recommended properties :

- Impervious gloves in accordance with standard EN374

**- Body protection**

Avoid skin contact.

Wear suitable protective clothing.

Suitable type of protective clothing :

In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 to prevent skin contact.

Wear suitable protective clothing and, in particular, an apron and boots. These items of clothing shall be maintained in good condition and cleaned after use.

Suitable type of protective boots :

In the event of minor spatter, wear protective boots or half-boots against chemical risks in accordance with standard EN13832-2.

In the event of prolonged contact, wear boots or half-boots with liquid-chemical-resistant and waterproof soles and uppers in accordance with standard EN13832-3.

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

**- Respiratory protection**

Anti-gas and vapour filter(s) (Combined filters) in accordance with standard EN14387 :

- A1 (Brown)

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**SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES**

**9.1. Information on basic physical and chemical properties**

**General information :**

Physical state :	Viscous liquid.
Color:	yellow/orange
Odour:	characteristic

**Important health, safety and environmental information**

pH :	10.80 . Slightly basic.
pH (aqueous solution) :	10.4
Boiling point/boiling range :	Not specified.
Flash point interval :	Not relevant.
Vapour pressure (50°C) :	Not relevant.
Density :	1.025
Miscibility :	100% Water
solubility :	Dilutable.
Melting point/melting range :	Not specified.
Self-ignition temperature :	Not specified.
Decomposition point/decomposition range :	Not specified.
% VOC :	0

**9.2. Other information**

VOC (g/l) :	0.00
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**SECTION 10 : STABILITY AND REACTIVITY**

**10.1. Reactivity**

No data available.

**10.2. Chemical stability**

This mixture is stable under the recommended handling and storage conditions in section 7.

**10.3. Possibility of hazardous reactions**

When exposed to high temperatures, the mixture can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide.

**10.4. Conditions to avoid**

**10.5. Incompatible materials**

**10.6. Hazardous decomposition products**

The thermal decomposition may release/form :

- carbon monoxide (CO)
- carbon dioxide (CO<sub>2</sub>)

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**SECTION 11 : TOXICOLOGICAL INFORMATION**

**11.1. Information on toxicological effects**

Exposure to vapours from solvents in the mixture in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system.

Symptoms produced will include headaches, numbness, dizziness, fatigue, muscular asthenia and, in extreme cases, loss of consciousness.

May cause irreversible damage to the skin; namely inflammation of the skin or the formation of erythema and eschar or oedema following exposure up to four hours.

Repeated or prolonged contact with the mixture may cause removal of natural oil from the skin resulting in non-allergic contact dermatitis and absorption through the skin.



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May have irreversible effects on the eyes, such as tissue damage in the eye, or serious physical decay of sight, which is not fully reversible by the end of observation at 21 days.

Serious eye damage is typified by the destruction of cornea, persistent corneal opacity and iritis.

**11.1.1. Substances**

**Acute toxicity :**

HYDROXYETHYLETHYLENDIAMINTRIACETIC ACID, TRISODIUMSALT (CAS: 139-89-9)

Oral route : LD50 > 2000 mg/kg  
Species : Rat

2-AMINOETHANOL (CAS: 141-43-5)

Oral route : LD50 = 1089 mg/kg  
Species : Rat

Dermal route : LD50 = 2504 mg/kg  
Species : Rat

Inhalation route : LC50 > 1.48 mg/l  
Species : Rat

2,2'-DIHYDROXYDIETHYLAMINE (CAS: 111-42-2)

Oral route : LD50 < 1600 mg/kg  
Species : Rat

PROPANE-1,2-DIOL (CAS: 57-55-6)

Oral route : LD50 = 22000 mg/kg  
Species : Rat

Dermal route : LD50 > 2000 mg/kg  
Species : Rabbit

Inhalation route : LC50 > 317 mg/l  
Species : Rabbit

AMIDES, C8-18 AND C18(UNSATD.),N,N-BIS(HYDROXYETHYL)

Oral route : LD50 > 5000 mg/kg  
Species : Rat

Dermal route : LD50 > 2000 mg/kg  
Species : Rat

**11.1.2. Mixture**

No toxicological data available for the mixture.

**Monograph(s) from the IARC (International Agency for Research on Cancer) :**

CAS 111-42-2 : IARC Group 2B : The agent is possibly carcinogenic to humans.

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**SECTION 12 : ECOLOGICAL INFORMATION**

Toxic to aquatic life with long lasting effects.

The product must not be allowed to run into drains or waterways.

**12.1. Toxicity**

**12.1.1. Substances**

2-AMINOETHANOL (CAS: 141-43-5)

Crustacean toxicity : EC50 = 65 mg/l  
Species : Daphnia magna

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Duration of exposure : 48 h

Algae toxicity : ECr50 = 2.5 mg/l  
Species : Pseudokirchnerella subcapitata  
Duration of exposure : 72 h

**HYDROXYETHYLETHYLENDIAMINTRIACETIC ACID, TRISODIUMSALT (CAS: 139-89-9)**

Fish toxicity : LC50 > 100 mg/l  
Species : Leuciscus idus  
Duration of exposure : 96 h

Crustacean toxicity : EC50 > 100 mg/l  
Species : Daphnia magna  
Duration of exposure : 48 h

Algae toxicity : ECr50 > 100 mg/l  
Species : Scenedesmus sp.  
Duration of exposure : 72 h

**2,2',2"-NITRILOTRIETHANOLTRIETHANOLAMINE (CAS: 102-71-6)**

Fish toxicity : LC50 > 100 mg/l  
Species : Lepomis macrochirus  
Duration of exposure : 96 h

Crustacean toxicity : EC50 > 100 mg/l  
Species : Daphnia magna  
Duration of exposure : 24 h

Algae toxicity : ECr50 > 100 mg/l  
Species : Desmodesmus subspicatus  
Duration of exposure : 72 h

**PROPANE-1,2-DIOL (CAS: 57-55-6)**

Fish toxicity : LC50 = 40613 mg/l Species  
: Trutta iridea Duration of  
exposure : 96 h

Crustacean toxicity : EC50 = 43500 mg/l Species  
: Daphnia magna Duration  
of exposure : 48 h

Algae toxicity : ECr50 = 19000 mg/l  
Species : Pseudokirchnerella subcapitata  
Duration of exposure : 96 h

**AMIDES, C8-18 AND C18(UNSATD.),N,N-BIS(HYDROXYETHYL)**

Fish toxicity : LC50 = 2.4 mg/l

Crustacean toxicity : EC50 = 3.2 mg/l

NOEC = 0.07 mg/l  
Factor M = 1

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Algae toxicity : EC<sub>50</sub> = 3.9 mg/l

**12.1.2. Mixtures**

No aquatic toxicity data available for the mixture.

**12.2. Persistence and degradability**

**12.2.1. Substances**

HYDROXYETHYLETHYLENDIAMINTRIACETIC ACID, TRISODIUMSALT (CAS: 139-89-9)

Biodegradability : Not fast degrading.

2-AMINOETHANOL (CAS: 141-43-5)

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

2,2',2"-NITRILOTRIETHANOLTRIETHANOLAMINE (CAS: 102-71-6)

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

PROPANE-1,2-DIOL (CAS: 57-55-6)

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

AMIDES, C8-18 AND C18(UNSATD.),N,N-BIS(HYDROXYETHYL)

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

**12.3. Bioaccumulative potential**

No data available.

**12.3.1. Substances**

PROPANE-1,2-DIOL (CAS: 57-55-6)

Octanol/water partition coefficient : log K<sub>ow</sub> = -0.78

Bioaccumulation : BCF = 0.09

**12.4. Mobility in soil**

No data available.

**12.5. Results of PBT and vPvB assessment**

No data available.

**12.6. Other adverse effects**

No data available.

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**SECTION 13 : DISPOSAL CONSIDERATIONS**

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

**13.1. Waste treatment methods**

Do not pour into drains or waterways.

**Waste :**

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

**Soiled packaging :**

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

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**Codes of wastes (Decision 2001/573/EC, Directive 2006/12/EEC, Directive 94/31/EEC on hazardous waste) :**

07 06 04 \* other organic solvents, washing liquids and mother liquors

**SECTION 14 : TRANSPORT INFORMATION**

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2013 - IMDG 2012 - ICAO/IATA 2014).

**14.1. UN number**

3082

**14.2. UN proper shipping name**

UN3082=ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(amides, c8-18 and c18(unsatd.),n,n-bis(hydroxyethyl))

**14.3. Transport hazard class(es)**

- Classification :



9

**14.4. Packing group**

III

**14.5. Environmental hazards**

- Environmentally hazardous material :



**14.6. Special precautions for user**

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	9	M6	III	9	90	5 L	274 335 601	E1	3	E

IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ
	9	-	III	5 L	F-A,S-F	274 335	E1

IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ
	9	-	III	964	450 L	964	450 L	A97 A158	E1
	9	-	III	Y964	30 kg G	-	-	A97 A158	E1

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

No data available.

**SECTION 15 : REGULATORY INFORMATION**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**- Classification and labelling information included in section 2:**

The following regulations have been used:

- Directive 67/548/EEC and its adaptations
- Directive 1999/45/EC and its adaptations
- EU Regulation No. 1272/2008 amended by EU Regulation No. 487/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 758/2013.

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- EU Regulation No. 1272/2008 amended by EU Regulation No. 944/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 605/2014.

**- Container information:**

No data available.

**- Particular provisions :**

No data available.

**15.2. Chemical safety assessment**

No data available.

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**SECTION 16 : OTHER INFORMATION**

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

**In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.**

Hazard symbols :



Irritant

Risk phrase :

- |      |                                 |
|------|---------------------------------|
| R 38 | Irritating to skin.             |
| R 41 | Risk of serious damage to eyes. |

Safety phrase :

- |         |   |
|---------|---|
| S 26    | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.               |
| S 39    | Wear eye/face protection.   |
| S 36/37 | Wear suitable protective clothing and gloves.   |
| S 45    | In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). |
| S 60    | This material and its container must be disposed of as hazardous waste.                                     |

**Title for H, EUH and R indications mentioned in section 3 :**

- |             |   |
|-------------|---|
| H302        | Harmful if swallowed.   |
| H302 + H332 | Harmful if swallowed or if inhaled.                                 |
| H312        | Harmful in contact with skin.                                       |
| H314        | Causes severe skin burns and eye damage.                            |
| H315        | Causes skin irritation.   |
| H318        | Causes serious eye damage.  |
| H319        | Causes serious eye irritation.                                      |
| H332        | Harmful if inhaled.   |
| H335        | May cause respiratory irritation.                                   |
| H373        | May cause damage to organs through prolonged or repeated exposure . |
| H400        | Very toxic to aquatic life.   |
| H410        | Very toxic to aquatic life with long lasting effects.               |
| R 20/21/22  | Harmful by inhalation, in contact with skin and if swallowed.       |
| R 22        | Harmful if swallowed.   |
| R 34        | Causes burns.   |

**EM-300 Ultraschallreiniger**

R 36/38	Irritating to eyes and skin.
R 38	Irritating to skin.
R 41	Risk of serious damage to eyes.
R 48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed.

**Abbreviations :**

DNEL : Derived No-Effect Level

PNEC : Predicted No-Effect Concentration

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefährdungsklasse (Water Hazard Class).

GHS05 : Corrosion

GHS09 : Environment