

No. 1907/2006 (REACH)
Printed 16.07.2015

revision 06.07.2015 (GB) Version 1.4

elma rotol

! SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Name of product elma rotol

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

Identified uses

! Sector of uses [SU]

SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

SU3 - Industrial uses: Uses of substances as such or in preparations at industrial sites

Recommended intended purpose(s)

Polishing concentrate for polishing or grinding drum.

1.3. Details of the supplier of the safety data sheet

Manufacturer/distributor Elma Schmidbauer GmbH

Gottlieb-Daimler-Str. 17, D-78224 Singen (Htwl.) Phone +49 7731 882-0, Fax +49 7731 882-266

E-Mail info@elma-ultrasonic.com Internet www.elma-ultrasonic.com

Advice Chemie/Labor: Email: chemlab@elma-ultrasonic.com

1.4. Emergency telephone number

Emergency advice Vergiftungs-Informations-Zentrale Freiburg

(Sprache/Language: D, GB) Phone +49 761 19240

! SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to 67/548/EEC or 1999/45/EC

Xi; R38 Xi; R41 Xn; R48/22

R-phrases

38 Irritating to skin.

41 Risk of serious damage to eyes.

48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.

! Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]

Hazard classes and Hazard Hazard Statements Classification procedure categories

Skin Irrit. 2H315Calculation method.Eye Dam. 1H318Calculation method.STOT RE 2H373Calculation method.Aquatic Chronic 2H411Calculation method.

Hazard Statements

H315 Causes skin irritation.

H318 Causes serious eye damage.

H373 Kann die Organe schädigen (Leber, Blut, Niere) bei längerer oder wiederholter Exposition

durch Verschlucken.



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H411

Toxic to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]







GHS05

GHS08

GHS09

! Signal word

Danger

Hazard Statements

H315 Causes skin irritation.

H318 Causes serious eye damage.

H373 Kann die Organe schädigen (Leber, Blut, Niere) bei längerer oder wiederholter Exposition

durch Verschlucken.

H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements

P102 Keep out of reach of children.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301 + P330 + IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P331

P302 + P352 IF ON SKIN: Wash with plenty of water.

P305 + P351 + IF IN EYES: Rinse cautiously with water for several minuts. Remove contact lenses, if

P338 present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

P314 Get medical advice/attention if you feel unwell.
P332 + P313 If skin irritation occurs: Get medical advice/attention.

! Hazardous ingredients for labeling

2,2'-iminodiethanol, Amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl)

2.3. Other hazards

Acute Tox. 5 (oral) H303: May be harmful if swallowed.

Aquatic Acute 2 H401: Toxic to aquatic life.

! Results of PBT and vPvB assessment

The product does not contain any PBT-/vPvB-substances according to the recipe.

!SECTION 3: Composition/ information on ingredients

3.1. Substances

not applicable

3.2. Mixtures

Description

Aqueous, mildly alkaline mixture of fatty acid alkanol amides and amines.



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CAS No	EC No	Name	[% weight]	Classification according to 67/548/EEC
68155-07-7	931-329-6	Amides, C8-18 (even numbered) and C18- unsatd., N,N-bis(hydroxyethyl)	60 - 85	Xi R38-41
111-42-2	203-868-0	2,2'-iminodiethanol	15 - 30	Xn R22-48/22; Xi R38-41
CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/ GHS]
68155-07-7	931-329-6	Amides, C8-18 (even numbered) and C18- unsatd., N,N-bis(hydroxyethyl)	60 - 85	Skin Irrit. 2, H315 / Eye Dam. 1, H318 / Aquatic Chronic 2, H411
111-42-2	203-868-0	2,2'-iminodiethanol	15 - 30	Acute Tox. 4, H302 / Skin Irrit. 2, H315 / Eye Dam. 1, H318 / STOT RE 2, H373 / Aquatic Chronic 3, H412
REACH				
CAS No	Name			REACH registration number
68155-07-7 111-42-2	Amides, C8- 2,2'-iminodie	18 (even numbered) and C18-unsatd., N,N-bis(hydr	roxyethyl)	Not yet available from supplier. Not yet available from supplier.

Polishing agent. Application: Mixture of about 0,5% concentrate with 99,5% water. Recommendation: First dilute with demineralized water 1:5, then dilute this solution with tap water further up to 1:35.

!SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated clothing immediately and dispose it safely.

In case of skin contact

In case of contact with skin wash off immediately with plenty of water.

Consult a doctor if skin irritation persists.

In case of eye contact

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

In case of ingestion

Do not induce vomiting.

Refer to medical treatment.

If swallowed seek medical advice immediately and show the doctor packing or label.

Rinse out mouth thoroughly with water.

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

! Physician's information / possible symptoms

No further informations available.

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

! Treatment (Advice to doctor)

No further informations available.



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SECTION 5: Firefighting measures

5.1. Extinguishing media Suitable extinguishing media

water

Foam

Dry powder

Carbon dioxide

5.2. Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolyse products.

In the event of fire the following can be released:

Nitrogen gases (NOx)

Carbon monoxide (CO)

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Do not inhale explosion and/or combustion gases.

! SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Use personal protection.

High risk of slipping due to leakage/spillage of product.

! For emergency responders

Use personal protective clothing.

Use personal protection.

Forms slippery surfaces with water.

High risk of slipping due to leakage/spillage of product.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

Take up with absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

Flush away residues with water.

After taking up the material dispose according to regulation.

6.4. Reference to other sections

Informations for safe handling see chapter 7.

Informations for personal protective equipment see chapter 8.

Informations for disposal see chapter 13.

! SECTION 7: Handling and storage

7.1. Precautions for safe handling Advice on safe handling

Open and handle container with care!

! General protective measures

Avoid contact with eyes and skin

Hygiene measures

Provide washing facilities at place of work.

Keep away from food and drink.

Wash hands before breaks and after work.



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! Advice on protection against fire and explosion

The product is combustible.

7.2. Conditions for safe storage, including any incompatibilities Requirements for storage rooms and vessels

Keep only in original container.

! Advice on storage compatibility

Do not store together with oxidizing agents.

Further information on storage conditions

Keep locked up, out of reach of children

Keep container dry and tightly closed.

Protect of heat.

Do not store at temperature above 25 °C (=77 °F).

Protect from sun.

Keep under lock and key or accessible only to specialists or people authorized by them.

Do not keep at temperatures below 5 °C.

Information on storage stability

Storage time: 3 years.

7.3. Specific end use(s)

! Recommendation(s) for intended use

no further

!SECTION 8: Exposure controls/personal protection

8.1. Control parameters

! Additional advice

Occupational exposure limits: not relevant.

8.2. Exposure controls

Hand protection

chemical-resistant gloves

Glove material specification [make/type, thickness, permeation time/life]: Butyl, 0,5mm, >=8h.

Glove material specification [make/type, thickness, permeation time/life]: NBR, 0,35mm, >=8h.

Glove material specification [make/type, thickness, permeation time/life]: FKM, 0,4mm, >=8h.

Glove material specification [make/type, thickness, permeation time/life]: NR, 0,5mm, >=8h.

Eye protection

tightly fitting goggles

! Limitation and surveillance of the environment

Avoid penetration into the subsoil/soil.

Do not discharge into surface waters.

! SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Colour

viscous yellowy-brown similar to amine

Odour threshold

not determined

Odour



Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Printed 16.07.2015 revision 06.07.2015 (GB) Version 1.4

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	Value	Temperature	at	Method	Remark
pH value	10,2	20 ℃			
starts to boil	>= 100 °C				
starts to melt	>= 0 °C				
Flash point	> 150 ℃			DIN 51758	
Flammable (solid)	not applicable				
Flammability (gas)	not applicable				
Ignition temperature	not determined				
Self ignition temperature					not spontaneously flammable
Lower explosion limit	2,1 Vol-%				Value of 2,2'- iminodiethano
Upper explosion limit	10,6 Vol-%				Value of 2,2'- iminodiethano
Vapour pressure	not determined				
Relative density	1,00 g/cm3	20 ℃			
Vapour density	3,62				Value of 2,2'- iminodiethano
Solubility in water					miscible
Solubility/other	not determined				
Partition coefficient n- octanol/water (log P O/W)	3,5 - 4,2				Value of Amides, C8- 18 (even numbered) and C18- unsatd., N,N- bis(hydroxyeth yl).
Decomposition temperature	>= 100 °C				
Viscosity	1500 mPa*s	20 ℃		Brookfield	
Solvent concentration	0 %				
Vapourisation rate					



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Oxidising properties

no

Explosive properties

no

9.2. Other information

No further relevant informations available.

! SECTION 10: Stability and reactivity

10.1. Reactivity

Evolution of heat under influence of acids.

No further hazardous reactions known if used as directed.

10.2. Chemical stability

Stable at ambient temperature.

10.3. Possibility of hazardous reactions

Reactions with acids.

Reactions with oxidising agents.

Reaction with nitric acid

10.4. Conditions to avoid

Heat and direct solar radiation.

10.5. Incompatible materials

Materials to avoid

Reactions with acids.

Reactions with oxidising agents.

Reaction with nitric acid

10.6. Hazardous decomposition products

No decomposition if used as directed.

!SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity/Irritability/Sensitization

	Value/Validation	Species	Method	Remark
LD50 acute oral	3700 mg/kg		ATE (acute toxicity estimate)	
LD50 acute dermal	> 5000 mg/kg		ATE (acute toxicity estimate)	
Irritability skin	irritant			
Irritability eye	risk of strong eye injuries			
Skin sensitization	The mixture is not classified as skin sensitiser.			



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! Specific target organ toxicity (single exposure)

The mixture is not classified as specific target organ toxicant (single exposure).

! Specific target organ toxicity (repeated exposure)

STOT RE 2 H373: May cause damage to organs (liver, blood, kidney) through prolonged or repeated exposure by swallowing.

! Aspiration hazard

The mixture is not classified as aspiration hazardous.

! Toxicity test (Additional information)

The mixture is not classified as mutagen / not classified as carcinogen / not classified as reproductive toxicant.

Experiences made from practice

Has a degreasing effect on the skin.

!SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicological effects

LCOTOXICOIO	Value	Species	Method	Validation
Fish	LC50 3 mg/l		calculated	EqNOEC(Fish): 0,4mg/l.
Daphnia	EC50 2,8 mg/l		calculated	EqNOEC(Daphnia): 0, 086mg/l.
Algae	EC50 2,2 mg/l		calculated	
12.2. Persist Physico-che degradabilit		COD decrease	Activated charcoal adsorption	
Biological degradabilit	> 85 % Y	DOC decrease		readily degradable

12.3. Bioaccumulative potential

Amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl): not available.

2,2'-iminodiethanol: Accumulation in organisms is not expected (log Pow: -2.18).

12.4. Mobility in soil

Amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl): Koc: 243, moderately mobile in soil. 2,2'-iminodiethanol: Adsorption on soil is not expected.

12.5. Results of PBT and vPvB assessment

The product does not contain any PBT-/vPvB-substances according to the recipe.

12.6. Other adverse effects

No further relevant informations available.

Additional ecological information

Additional ecolog	Value	Method	Remark	
COD	2,4 gO2/g			
AOX	The product does not contain any organically bound halogens according to the recipe.			

! General regulation

The surfactants in our product meet the criteria for biodegradation as laid down in Annex III of the Regulation (EC) No 648/2004 on detergents.

Acute aquatic environmental hazards: Aquatic Acute 2 H401: Toxic to aquatic life.

Chronic aquatic environmental hazards: Aquatic Chronic 2 H411: Toxic to aquatic life with long lasting effects.

Do not allow uncontrolled leakage of product into the environment.



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! SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste code No.

Name of waste

20 01 29*

detergents containing dangerous substances

Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 2008/98/EC on hazardous waste.

! Recommendations for the product

Do not dispose with household waste.

Remove in accordance with local official regulations.

Product rests: send for disposal, e.g. special waste incineration.

Recommendations for packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Packaging that cannot be cleaned should be disposed of like the product.

Recommended cleansing agent

Water

!SECTION 14: Transport information

	ADR/RID	IMDG	IATA-DGR
14.1. UN number	UN 3082	UN 3082	UN 3082
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N. O.S. (contains Amides, C8-18 (even numbered) and C18-unsatd., N,N- bis(hydroxyethyl))	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains Amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl))	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains Amides, C8-18 (even numbered) and C18- unsatd., N,N- bis(hydroxyethyl))
14.3. Transport hazard class(es)	9	9	9
14.4. Packing group	III	III	III
14.5. Environmental hazards	Yes	Yes	Yes

14.6. Special precautions for user

no

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not relevant

Land and inland navigation transport ADR/RID

Hazard label(s) 9

tunnel restriction code E

elma rotol does not require labeling according to ADR 3.3 SP 375 [containers up to 5 litre].

Marine transport IMDG

elma rotol does not require labeling according to IMDG-Code 37-14, 2.10.2.7 [containers up to 5 litre].

Air transport ICAO/IATA-DGR

elma rotol does not require labeling according to IATA 56th edition, A197 [containers up to 5 litre].



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! SECTION 15: Regulatory information

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

! Authorizations

not relevant

! Application restrictions

Regulation (EC) No 1907/2006 (REACH), Annex XVII No 3 - not relevant if used as directed.

! Other regulations (EU)

Regulation (EC) No 648/2004 (Detergents regulation).

Directive 2012/18/EU, Annex I: not mentioned.

VOC standard

VOC content

0 %

15.2. Chemical Safety Assessment

For this mixture a chemical safety assessment were not carried out.

!SECTION 16: Other information

! Recommended uses and restrictions

National and local regulations concerning chemicals shall be observed.

Further information

These data are given according to our actual knowledge about this product. This data sheet does not correspond to an assurance by virtue of a contract for properties of the product.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 1.3

Sources of key data used

Own measurements.

Wording of the R/H-phrases specified in chapter 3 (not the classification of the mixture!)

R 22 Harmful if swallowed.

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.

H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.

H373 May cause damage to organs (or state all organs affected, if known) through prolonged or repeated exposure

(state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).

H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.