



Safety Data Sheet according to Regulation (EC)
No. 1907/2006 (REACH)
Printed 18.05.2010
Revision 18.05.2010
elma clean 55d (EC 55d)

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

Name of product elma clean 55d (EC 55d)

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Emergency advice Vergiftungs-Informations-Zentrale Freiburg
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Recommended intended purpose(s)

Alkaline concentrate for disinfection and cleaning of medical and dental/-technical instruments, including quickly rotating instruments (e.g. drills).
For commercial consumers only.
This data sheet holds beginning from lot-No. 01, May 2010.

2. HAZARDS IDENTIFICATION

Classification

Xn; R22
C; R35
N; R50

R-phrases

22 Harmful if swallowed.
35 Causes severe burns.
50 Very toxic to aquatic organisms.

Special hazards information for humans and environment

Harmful: possible risk of irreversible effects in contact with skin and eyes and if swallowed.
Causes severe burns.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization

Aqueous, alkaline mixture from disinfectants, non-ionic surfactant, complexing agents, corrosion inhibitors, amines, cosolvents, perfumes and dyestuff.

Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification
107-21-1	203-473-3	ethanediol	< 5	Xn R22
141-43-5	205-483-3	2-aminoethanol	< 5	Xn R20/21/22; C R34
68515-73-1		alkylpolyglycoside	< 5	Xi R41
		polymers of organic compounds of phosphorus	< 5	Xi R36/38
94667-33-1		N,N-Didecyl-N-methyl-poly(oxyethyl)	10 - 20	Xn R22; C R34; N R50
		ammoniumpropionate		
2372-82-9	219-145-8	N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	10 - 20	Xn R22; C R35; N R50



4. FIRST AID MEASURES

General information

Remove contaminated soaked clothing immediately.

Symptoms of poisoning may not occur for many hours, therefore keep under medical supervision for at least 48 hours.

Adhere to personal protective measures when giving first aid.

In case of inhalation

Remove the casualty into fresh air and keep him immobile.

In case of inhalation remove the casualty into fresh air and seek medical advice.

In the event of symptoms refer for medical treatment.

In case of skin contact

In case of contact with skin wash off immediately with soap and 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.

Seek medical advice immediately.

Rinse out mouth and give plenty of water to drink.

Physician's information / possible dangers

Risk of stomach perforation

Treatment (Advice to doctor)

Treat symptoms.

Decontamination

Keep under medical supervision for at least 48 hours.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

water

Fire-extinguishing activities according to surrounding.

Foam

Dry powder

Carbon dioxide

Extinguishing media which must not be used for safety reasons

no

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

Risk of formation of toxic pyrolyse products.

In case of fire formation of dangerous gases possible.

Special protective equipment for fire-fighters

Use breathing apparatus with independent air supply (isolated).

Do not inhale explosion and/or combustion gases.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Ensure adequate ventilation.

Use personal protection.

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

Environmental precautions

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



Do not discharge into the subsoil/soil.

Methods for cleaning up

Take up with absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).
After taking up the material dispose according to regulation.

7. HANDLING AND STORAGE

Advice on safe handling

Use only in thoroughly ventilated areas.
Open and handle container with care!
Keep container tightly closed.

Advice on protection against fire and explosion

No special measures necessary.

Requirements for storage rooms and vessels

Keep only in unopened original container.

Advice on storage compatibility

Do not store together with animal feedstuffs.
Do not store together with food.
Keep at distance to strong acids.
Do not store together with oxidizing agents.

Further information on storage conditions

Store closed container at cool and aired place.
Keep locked up, out of reach of children
Protect from heat and direct solar radiation.
Keep under lock and key or accessible only to specialists or people authorized by them.
Do not keep at temperatures below 0°C.
Do not keep at temperatures above 35°C.

Information on storage stability

The green colour of the product may fade with long storage - this does not change the performance of the product.
Storage time: 3 years.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Indicative occupational exposure limit values (91/322/EEC, 2000/39/EC or 2006/15/EC)

CAS No	Name	Code	[mg/m ³]	[ppm]	Remark
107-21-1	ethanediol	8 hours	52	20	skin
		Short-term	104	40	
141-43-5	2-aminoethanol	8 hours	2,5	1	skin
		Short-term	7,6	3	

Additional advice

Respiratory protection

In case of insufficient ventilation or long-term effect use breathing apparatus.

Hand protection

Rubber gloves
chemical-resistant gloves
Glove material specification [make/type, thickness]: FKM, 0,4mm.
Glove material specification [make/type, thickness]: NBR, 0,35mm.
Glove material specification [make/type, thickness]: Butyl, 0,5mm.
Glove material specification [make/type, thickness]: NR, 0,5mm.

Eye protection

tightly fitting goggles

**Skin protection**

light protective clothing

General protective measures

Avoid contact with eyes and skin

Do not inhale gases/vapours/aerosols.

Hygiene measures

Provide washing facilities at place of work.

At work do not eat, drink and smoke.

Remove soiled or soaked clothing immediately.

Work in rooms with good ventilation.

Keep away from food and drink.

Wash hands before breaks and after work.

Use barrier skin cream.

9. PHYSICAL AND CHEMICAL PROPERTIES**Form**

liquid

Colour

green

Odour

mint- and amine-like

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value in delivery state	ca. 11,5	20 °C			
Flash point	> 63 °C				
Autoignition					no
Density	1,01 - 1,02 g/ cm ³	20 °C			
Solubility in water					miscible
Solvent concentration	7,5 %				

Oxidizing properties

no

Explosive properties

no

10. STABILITY AND REACTIVITY**Conditions to avoid**

Reactions with strong acids.

Reactions with oxidising agents.

Evolution of heat.

Evolution of heat under influence of acids.

Materials to avoid

Reactions with oxidising agents.

Reaction with nitric acid

Hazardous decomposition products

In the event of fire the following can be released:

Toxic gases/vapours

risk of formation of toxic pyrolysis products



11. TOXICOLOGICAL INFORMATION

Acute toxicity/Irritability/Sensitization

	Value/Validation	Species	Method	Remark
Irritability skin	strong corrosive			
Irritability eye	strong corrosive			

Experiences made from practice

Has a degreasing effect on the skin.
Causes strong corrosions.

12. ECOLOGICAL INFORMATION

Data on elimination (persistence and degradability)

	Elimination rate	Method of analysis	Method	Validation
Biological degradability				Biodegradable

Additional ecological information

	Value	Method	Remark
COD	ca. 1,1 gO ₂ /g		
AOX	The product does not contain any organically bound halogens according to the recipe.		

General regulation

Do not allow uncontrolled leakage of product into the environment.
Product is not allowed to be discharged into the ground water or aquatic environment.

13. DISPOSAL CONSIDERATIONS

Waste code No.

15 01 10*
16 10 03*

Name of waste

packaging containing residues of or contaminated by dangerous substances
aqueous concentrates containing dangerous substances

Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 91/689/EEC on hazardous waste.

Recommendations for the product

In accordance with regulations for special waste, must be taken to a special waste disposal.
There are no harmonised regulations on the disposal of chemicals in the member states of the EU. In Germany, the Recycling and Waste Management Act 8 KrW-/AbfG) stipulates recycling as a requirement.

14. TRANSPORT INFORMATION

Land and inland navigation transport ADR/RID

UN 1903 DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine), 8, II, (E)

Marine transport IMDG

UN 1903 DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine), 8, II,
Marine Pollutant: P

Air transport ICAO/IATA-DGR

UN 1903 DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine), 8, II



15. REGULATORY INFORMATION

Remarks for classification

The product is classified and labelled in accordance with EC directives/German regulations on dangerous substances.

Classification

- C** Corrosive
N Dangerous for the environment

R-phrases

- 22 Harmful if swallowed.
35 Causes severe burns.
50 Very toxic to aquatic organisms.

S-phrases

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

Hazardous ingredients for labeling

N,N-Didecyl-N-methyl-poly(oxyethyl)ammoniumpropionate, N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine

VOC standard

VOC content 5,6 %

16. OTHER INFORMATION

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.

Wording of the R-phrases specified in chapter 3 (not the classification of the formulation!)

- R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R 22 Harmful if swallowed.
R 34 Causes burns.
R 35 Causes severe burns.
R 36/38 Irritating to eyes and skin.
R 41 Risk of serious damage to eyes.
R 50 Very toxic to aquatic organisms.