



! 1. Identification of the substance/mixture and of the company/undertaking

Product identifier

Name of product

elma chrono clean 1: 20

Manufacturer/distributor

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Advice

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Emergency advice

Vergiftungs-Informations-Zentrale Freiburg
(Sprache/Language: D, GB)
Phone +49 761 19240

! Recommended intended purpose(s)

Cleaning concentrate for the aqueous ultrasonic cleaning of disassembled clockworks and fine mechanic precision parts.

Application: 1 part concentrate, 20 parts water.

! 2. Hazards identification

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

R10

Xi; R41

R67

R-phrases

10

Flammable.

41

Risk of serious damage to eyes.

67

Vapours may cause drowsiness and dizziness.

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

Remarks for labelling

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

Xi Irritant



R-phrases

10

Flammable.

41

Risk of serious damage to eyes.

67

Vapours may cause drowsiness and dizziness.

S-phrases

2

Keep out of the reach of children.



Safety Data Sheet according to Regulation (EC)
No. 1907/2006 (REACH)

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24	Avoid contact with skin.
26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
39	Wear eye/face protection.
62	If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.
7	Keep container tightly closed.

! 3. Composition/information on ingredients

Description

Aqueous mixture of anionic and amphoteric tensides, organic acid, corrosion inhibitors and cosolvent.

! Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification according to 67/548/EEC
71-23-8	200-746-9	propan-1-ol	10 - 20	F R11; Xi R41; R67
93820-52-1	298-632-7	β -Alanine, N-(2-aminoethyl)-N-(2-hydroxyethyl)-, N-coco acyl derivs., monosodium salts	< 5	Xi R36
	932-051-8	Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxid	< 5	Xi R41-38

REACH

CAS No	Name	REACH registration number
	Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxid	01-2119565112-48

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
71-23-8	200-746-9	propan-1-ol	10 - 20	Flam. Liq. 2, H225 / Eye Dam. 1, H318 / STOT SE 3, H336
93820-52-1	298-632-7	β -Alanine, N-(2-aminoethyl)-N-(2-hydroxyethyl)-, N-coco acyl derivs., monosodium salts	< 5	Eye Irrit. 2, H319
	932-051-8	Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxid	< 5	Skin Irrit. 2, H315 / Eye Dam. 1, H318

REACH

CAS No	Name	REACH registration number
	Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxid	01-2119565112-48

4. First aid measures

In case of skin contact

In case of contact with skin wash off with water.

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.

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



Rinse out mouth and give plenty of water to drink.

! 5. Firefighting measures

Suitable extinguishing media

Alcohol-resistant foam
Dry powder
Carbon dioxide
Water spray jet

! 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)

Special protective equipment for fire-fighters

Use breathing apparatus with independent air supply.
Do not inhale explosion and/or combustion gases.

6. Accidental release measures

Personal precautions

Use personal protection.
High risk of slipping due to leakage/spillage of product.

Environmental precautions

Do not discharge into surface waters/groundwater.

Methods for cleaning up

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

! 7. Handling and storage

Advice on safe handling

Keep container tightly closed.
Take the usual precautions when handling with chemicals.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking
The product is combustible.

Requirements for storage rooms and vessels

Keep only in unopened original container.

! Advice on storage compatibility

Do not store together with oxidizing agents.
Do not transport and store together with sodium nitrite.

! Further information on storage conditions

Keep container tightly closed and store at cool and aired place.
Keep locked up, out of reach of children
Protect from heat and direct solar radiation.
Do not keep at temperatures below 5 °C.

Information on storage stability

Storage time: 5 years.



! 8. Exposure controls/personal protection

! Ingredients with occupational exposure limits to be monitored

CAS No	Name	Code	[mg/m ³]	[ppm]	Remark
71-23-8	propan-1-ol	WEL, 8 hours	500	200	Sk, R11-41-67

! Additional advice

Eye protection

tightly fitting goggles

! General protective measures

Avoid contact with eyes and skin

Hygiene measures

Provide washing facilities at place of work.

Keep away from food and drink.

! 9. Physical and chemical properties

Form
liquid

Colour
amber

Odour
alcoholic

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value in delivery state	8,5	20 °C			
starts to boil	ca. 90 °C				
solidifying range	5 °C				
Flash point	33 °C			DIN 51755	
Autoignition					no
Density	1,075 g/cm ³	20 °C			
Solubility in water					multimiscible
Solvent concentration	10 - 20 %				
Oxidizing properties					no

! 10. Stability and reactivity

! Conditions to avoid

Heat and direct solar radiation.

! Materials to avoid

Reactions with strong acids.

Reactions with oxidising agents.

Reaction with nitric acid

Reactions with inorganic acid chlorides.



! Hazardous decomposition products
No decomposition if used as directed.

! 11. Toxicological information

Acute toxicity/Irritability/Sensitization

	Value/Validation	Species	Method	Remark
LD50 acute oral	> 5000 mg/kg	rat	calculated	
Irritability skin	non-irritant			
Irritability eye	irritant - risk of strong eye injuries			

Experiences made from practice
Has a degreasing effect on the skin.

Additional information

The product has not been tested. The information is derived from the properties of the individual components.

12. Ecological information

Data on elimination (persistence and degradability)

	Elimination rate	Method of analysis	Method	Validation
Biological degradability	>= 90 % The product is readily biodegradable to OECD criteria.		OECD 302 B	

Additional ecological information

	Value	Method	Remark
COD	ca. 1170 mgO ₂ /g	calculated	
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.

13. Disposal considerations

Waste code No.
20 01 29*

Name of waste
detergents 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

Product is allowed to discharge into sewage treatment plants, but in accordance with official regulations.

Recommendations for packaging

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

Recommended cleansing agent

Water



! 14. Transport information

! Land and inland navigation transport ADR/RID

UN 1274 n-PROPANOL, SOLUTION, 3, III, (D/E)

Marine transport IMDG

UN 1274 n-PROPANOL, SOLUTION, 3, III

Air transport ICAO/IATA-DGR

UN 1274 n-PROPANOL, SOLUTION, 3, III

15. Regulatory information

VOC standard

VOC content 16,7 %

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.

Sources of key data used

Own measurements.

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

R 11 Highly flammable.

R 36 Irritating to eyes.

R 38 Irritating to skin.

R 41 Risk of serious damage to eyes.

R 67 Vapours may cause drowsiness and dizziness.

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.