

Safety Data Sheet according to 91/155/EEC

European Nail Factory
Revision date : 16.12.2005

Revision no. : 1,00

NAIL HARDENER

00642-0012

1. Identification of the substance/preparation and of the company/undertaking

1.1 Identification of the substance or preparation

NAIL HARDENER

Use of the substance/preparation

Cosmetic

1.2 Company/undertaking identification

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2. Composition/information on ingredients

Chemical characterization (preparation)

Preparation in organic solvents

Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity	Classification
205-500-4	141-78-6	ethyl acetate	< 60 %	F, Xi R11-36-66-67
204-658-1	123-86-4	n-butyl acetate	< 20 %	R10-66-67
	9004-70-0	Nitrocellulose	< 20 %	F, Xi R11-356/37/38
200-661-7	67-63-0	Propan-2-ol	< 10 %	F, Xi R11-36-67

Full text of each relevant R phrase can be found in heading 16.

3. Hazards identification

Classification

Symbols : Highly flammable, Irritant

R-phrases :

Highly flammable.

Irritating to eyes.

Repeated exposure may cause skin dryness or cracking.

Vapours may cause drowsiness and dizziness.

4. First aid measures

General information

Remove contaminated soaked clothing immediately.

If you feel unwell, seek medical advice.

After inhalation

Move to fresh air in case of accidental inhalation of vapours or decomposition products.

Refer for medical treatment.

If patient is not breathing, apply artificial respiration.

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After contact with skin

Wash off with soap and plenty of water.

Do not use solvents or thinners.

Consult a doctor if skin irritation persists.

After contact with eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Seek medical treatment by eye specialist.

After ingestion

Do not induce vomiting.

Immediately give plenty of water (if possible charcoal slurry).

Summon a doctor immediately.

Induce vomiting only upon the advice of a physician.

Advice to doctor

Attention. Beware, danger of aspiration.

Risk of pulmonary oedema.

5. Fire-fighting measures

Suitable extinguishing media

Alcohol-resistant foam, dry chemical, carbon dioxide (CO₂), water-spray.

Extinguishing media which must not be used for safety reasons

Full water jet

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

Fire may produce:

Carbon monoxide (CO), carbon dioxide (CO₂) and nitrogen oxides (NO_x).

Special protective equipment for fire-fighters

Use breathing apparatus with independent air supply.

Protective suit

Additional information

Backfire at a long distance is possible.

Vapours are heavier than air and spread along ground.

The vapour/air mixture is explosive, even in empty, uncleaned receptacles.

Cool containers at risk with water spray jet.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

6. Accidental release measures

Personal precautions

In case of vapour formation use respirator.

Do not smoke.

Ensure adequate ventilation.

Use personal protective clothing.

Keep away sources of ignition.

Environmental precautions

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

Do not discharge into the subsoil/soil.

Methods for cleaning up/taking up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).

Take up mechanically and collect in suitable container for disposal.

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Additional information

Clean contaminated surface thoroughly.

7. Handling and storage**7.1 Handling****Advice on safe handling**

Keep container tightly closed.

Do not breathe vapours.

Use only in thoroughly ventilated areas.

Avoid contact with skin, eyes and clothing.

Advice on protection against fire and explosion

Keep away from heat and sources of ignition.

Do not smoke.

Take measures against electrostatically charging.

Use only explosion-proof equipment.

7.2 Storage**Requirements for storage rooms and vessels**

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

Pay attention to anti-explosion rules.

Protect against direct sun radiation.

Keep at temperatures between 5°C and 40°C.

Advice on storage compatibility

Incompatible with:

Oxidizing agents, Acids and bases.

Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

Storageclass (VCI) : 3 A**8. Exposure controls/personal protection****8.1 Exposure limit values****Exposure limits (EH40)**

CAS No.	Substance	ml/m ³	mg/m ³	F/ml	Category	Origin
123-86-4	Butyl acetate	150	724		TWA (8 h)	WEL
	Butyl acetate	200	966		STEL (15 min)	WEL
141-78-6	Ethyl acetate	200	-		TWA (8 h)	WEL
	Ethyl acetate	400	-		STEL (15 min)	WEL
67-63-0	Propan-2-ol	400	999		TWA (8 h)	WEL
	Propan-2-ol	500	1250		STEL (15 min)	WEL

8.2 Exposure controls**Occupational exposure controls**

Ensure adequate ventilation, especially in confined areas.

Protective and hygiene measures

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Do not inhale vapours.

Avoid contact with eyes and skin.

Wash hands before breaks and immediately after handling the product.

When using, do not eat, drink or smoke.

Take off immediately all contaminated clothing.

Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment (gas filter type A).

Hand protection

Protective gloves resistant to chemicals made off butyl, Minimum coat thickness 0,7 mm, Permeation resistance (wear duration) approx. 120 minutes, i.e. protective glove <Butoject 898> made by www.kcl.de. This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.

Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

Eye protection

Eye wash bottle with pure water.

Tightly fitting goggles

Skin protection

Long sleeved clothing.

9. Physical and chemical properties

9.1 General information

Physical state : Viscous liquid

Colour : Various

Odour : Characteristic

9.2 Important health, safety and environmental information

Test method

Changes in the physical state

Boiling point : > 77 °C

Flash point : < 21 °C

Flammability

Lower explosion limits : 1,2 vol. %

Upper explosion limits :

Ignition temperature : n. d.

Density (at 20 °C) : 0,95 - 1,05 g/cm³

Water solubility : Immiscible
at (20 °C)

Solvent content

< 100 %

10. Stability and reactivity

Conditions to avoid

Vapour/air mixtures are explosive at intensive warming.

Heating can release vapours which can be ignited.

Materials to avoid

Oxidizing agents., Acids and bases

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Hazardous decomposition products

Carbon monoxide (CO), carbon dioxide (CO₂) and nitrogen oxides (NO_x)

Additional information

No decomposition if stored and applied as directed.

11. Toxicological information

Empirical data on effects on humans

Irritating to eyes.

Vapours may cause drowsiness and dizziness.

Repeated exposure may cause skin dryness or cracking.

Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Concentration above the admissible concentration at the workplace may cause dizziness, headache and inebriation.

Attention. Beware, danger of aspiration.

Hazard of lung oedema.

12. Ecological information

Additional information

Do not flush into surface water or sanitary sewer system.

Slightly water hazardous.

13. Disposal considerations

Advice on disposal

Where possible recycling is preferred to disposal.

Can be incinerated, when in compliance with local regulations.

Waste disposal number of waste from residues/unused products :

070604 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; other organic solvents, washing liquids and mother liquors

Classified as hazardous waste.

Contaminated packaging

Empty containers should be taken for local recycling, recovery or waste disposal.

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.

14. Transport information

Land transport (ADR/RID)

ADR/RID class :	3
Hazard-no. :	33
UN number :	1266
Hazard label :	3
ADR/RID packing group :	II

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Description of the goods

Perfumery products

Remarks (land transport)

LQ 6: combination packaging: 5 l / 30 kg (total gross mass); trays: 1 l / 20 kg (total gross mass).

Inland waterways transport

Marine transport

IMDG code : 3
UN number : 1266
Marine pollutant : No
EmS : F-E, S-D
IMDG packing group : II
Hazard label : 3

Description of the goods

PERFUMERY PRODUCTS

Remarks (marine transport)

Limited quantities (chapter 3.4): combination packaging: 1 l / 30 kg (total gross mass); trays: 1 l / 20 kg (total gross mass)

Air transport

ICAO/IATA-DGR : 3
UN/ID number : 1266
Hazard label : 3
IATA-packing instructions - Passenger : 305
IATA-max. quantity - Passenger : 5 L
IATA-packing instructions - Cargo : 307
IATA-max. quantity - Cargo : 60 L
ICAO packing group : II

Description of the goods

PERFUMERY PRODUCTS

15. Regulatory information

15.1 Labelling

Indication of danger : F - Highly flammable; Xi - Irritant

Labelling according to EC-guidelines : According to the EC hazardous substance regulations in compliance with the EC cosmetic product regulations this product must not be labelled as a hazardous substance.

According to ruling EC Directives the product must be labelled as hazardous substance as follows:

R phrases :

11 Highly flammable.
36 Irritating to eyes.
66 Repeated exposure may cause skin dryness or cracking.
67 Vapours may cause drowsiness and dizziness.

S phrases :

09 Keep container in a well-ventilated place.
16 Keep away from sources of ignition - No smoking.
23 Do not breathe Vapour .
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
35 This material and its container must be disposed of in a safe way.

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15.2 National regulations

Employment restrictions :	Observe employment restrictions for young people.; Observe employment restrictions for child bearing mothers and nursing.
Water contaminating class :	1 - slightly water contaminating
1999/13/EC (VOC) :	< 100 %

16. Other information

List of relevant R phrases

10	Flammable.
11	Highly flammable.
36	Irritating to eyes.
66	Repeated exposure may cause skin dryness or cracking.
67	Vapours may cause drowsiness and dizziness.

Other data

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product (s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

"(n.a. = not applicable; n.d. = not determined)"

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)