



FRABOADESIVI SPA

Safety Data Sheet Pression NEOVULK CN/SUPER



Safety Data Sheet dated 4/2/2022, version 6

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

1.1. Product identifier

Mixture identification:

Trade name :

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

Recommended use:

Brush adhesive

Uses advised against:

Any use other than recommended.

1.3. Details of the supplier of the safety data sheet

Producer:

FRABO ADESIVI spa - via Garibaldi 76/78 - 20061 Carugate - Milan - ITALY

Tel. +39 02 9253631 - Fax +39 02 9252357

Company with certified Quality Sistem UNI EN ISO 9001

Email address of the person responsible for the SDS

sds@frabo.it

1.4. Emergency telephone number

UK: National Poisons Information Service Phone +44 121 507 4123

United Arab Emirates: Istijaba call centre 8001717

Italy: CAV Osp. Pediatrico Bambino Gesù Dip. Emergenza e Accettazione DEA (Roma): +39 0668593726;

Ospedale Niguarda Milano Tel. +39 0266101029

FRABO ADESIVI spa - Tel. (+39) 02 9253631 (8h00 - 12h00 // 13h30 - 17h00)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)



Danger, Flam. Liq. 2, Highly flammable liquid and vapour.



Warning, Skin Irrit. 2, Causes skin irritation.



Warning, Eye Irrit. 2, Causes serious eye irritation.



Warning, Skin Sens. 1, May cause an allergic skin reaction.



Warning, STOT SE 3, May cause drowsiness or dizziness.



Warning, Aquatic Acute 1, Very toxic to aquatic life.



Warning, Aquatic Chronic 1, Very toxic to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:





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Danger

Hazard statements:

- H225 Highly flammable liquid and vapour.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H317 May cause an allergic skin reaction.
- H336 May cause drowsiness or dizziness.
- H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements:

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/clothing and eye/face protection.
- P370+P378 In case of fire: use a powder, CO2 or foam extinguisher to extinguish.
- P391 Collect spillage.
- P403+P235 Store in a well-ventilated place. Keep cool.

Special Provisions:

- EUH066 Repeated exposure may cause skin dryness or cracking.

Contains

- cyclohexane
- ethyl acetate
- toluene
- rosin; colophony
- solid epoxy resin : May produce an allergic reaction.
- Formaldehyde, polymer with 1,3-benzenediol and 4-(1,1-dimethylethyl)phenol: May produce an allergic reaction.

Special provisions according to Annex XVII of REACH and subsequent amendments:

- Industrial use only
- None

2.3. Other hazards

- No PBT, vPvB or endocrine disruptor substances present in concentration $\geq 0.1\%$

Other Hazards:

- The mixture emits vapours that in a short time form inflammable mixture, the accumulated vapours may take fire and/or explode is inflamed. The mixture accumulate electrostatic charge may cause incendiary discharge. No other harmful effect knowned.

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
$\geq 40\%$ - $< 50\%$	cyclohexane	Index number: 601-017-00-1 CAS: 110-82-7 EC: 203-806-2 REACH No.: 01-21194632 73-41-XXXX	2.6/2 Flam. Liq. 2 H225 3.10/1 Asp. Tox. 1 H304 3.2/2 Skin Irrit. 2 H315 3.8/3 STOT SE 3 H336 4.1/A1 Aquatic Acute 1 H400 4.1/C1 Aquatic Chronic 1 H410
$\geq 30\%$ - $< 40\%$	ethyl acetate	Index number: 607-022-00-5 CAS: 141-78-6 EC: 205-500-4	2.6/2 Flam. Liq. 2 H225 3.3/2 Eye Irrit. 2 H319 3.8/3 STOT SE 3 H336



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		REACH No.: 01-21194751 03-46-XXXX	EUH066
>= 1% - < 3%	toluene	Index number: 601-021-00-3 CAS: 108-88-3 EC: 203-625-9 REACH No.: 01-21194713 10-51-XXXX	2.6/2 Flam. Liq. 2 H225 3.7/2 Repr. 2 H361d 3.10/1 Asp. Tox. 1 H304 3.9/2 STOT RE 2 H373 3.2/2 Skin Irrit. 2 H315 3.8/3 STOT SE 3 H336
>= 1% - < 3%	rosin; colophony	Index number: 650-015-00-7 CAS: 8050-09-7 EC: 232-475-7 REACH No.: 01-21194804 18-32-XXXX	3.4.2/1 Skin Sens. 1 H317
>= 0.25% - < 0.5%	solid epoxy resin	CAS: 25036-25-3	3.2/2 Skin Irrit. 2 H315 3.3/2 Eye Irrit. 2 H319 3.4.2/1-1A-1B Skin Sens. 1,1A,1B H317
>= 0.25% - < 0.5%	Formaldehyde, polymer with 1,3-benzenediol and 4-(1,1-dimethylethyl)phenol	CAS: 59633-97-5 EC: 812-475-9	3.4.2/1B Skin Sens. 1B H317
>= 0.01% - < 0.1%	zinc oxide	Index number: 030-013-00-7 CAS: 1314-13-2 EC: 215-222-5 REACH No.: 01-21194638 81-32-0078	4.1/A1 Aquatic Acute 1 H400 M=1. 4.1/C1 Aquatic Chronic 1 H410 M=1.
>= 0.01% - < 0.1%	disulfiram; tetraethylthiuramdisulfide	Index number: 006-079-00-8 CAS: 97-77-8 EC: 202-607-8	3.9/2 STOT RE 2 H373 3.4.2/1 Skin Sens. 1 H317 4.1/A1 Aquatic Acute 1 H400 M=10. 4.1/C1 Aquatic Chronic 1 H410 M=10. 3.1/4/Oral Acute Tox. 4 H302
>= 0.01% - < 0.1%	Talc (free from asbestos fibers)	CAS: 14807-96-6 EC: 238-877-9	Substance with a Union workplace exposure limit.
>= 0.01% - < 0.1%	reaction mass of ethylbenzene and xylene	EC: 905-588-0 REACH No.: 01-21195394 52-40-XXXX	2.6/3 Flam. Liq. 3 H226 3.8/3 STOT SE 3 H335 3.1/4/Inhal Acute Tox. 4 H332 3.9/2 STOT RE 2 H373 3.1/4/Dermal Acute Tox. 4 H312 3.2/2 Skin Irrit. 2 H315 4.1/C3 Aquatic Chronic 3 H412



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	3.3/2 Eye Irrit. 2 H319
	3.10/1 Asp. Tox. 1 H304

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

Remove any contact lenses. Rinse the eyes thoroughly with water for an appropriate amount of time and keeping the eyelids open, then immediately consult an ophthalmologist.

Protect uninjured eye.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

D.P.I for those for first aid: Refer to Section 8.2

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

Central nervous system effects

Drowsiness

Dizziness

Narcosis

Lung irritation

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

CO₂, dry chemical or foam fire extinguisher

Extinguishing media which must not be used for safety reasons:

None in particular, is not advisable to utilize water jets to put out the fire.

5.2. Special hazards arising from the substance or mixture

Do not inhale combustion gases. Possible Carbon Oxides (CO_x) formation.

Burning produces heavy smoke.

Hazardous combustion products:

carbon oxides (CO, CO₂), nitrogen oxides NO_x, harmful gases

5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non emergency personnel:



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Wear personal protection equipment.
Remove all sources of ignition.
Remove persons to safety.
See protective measures under point 7 and 8.
For emergency responders:
Wear personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
Retain contaminated washing water and dispose it.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand
Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Do not smoke while working.
Place the containers on the ground during use or decanting operations (guarantee the equipotentiality by earth ground), put on antistatic shoes.
Remember that solvents vapours are heavier than air and spread along ground so that may be cause of potentially dangerous areas.
It is advisable to carry out an ATEX (explosive atmosphere) assessment as regards the areas, plants and equipment that are used during the application of the mixture.
Avoid contact with skin and eyes, inhalation of vapours and mists.
Don't use empty container before they have been cleaned.
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
See also section 8 for recommended protective equipment.
Advice on general occupational hygiene:
Contaminated clothing should be changed before entering eating areas.
Do not eat or drink while working.
Provide electrical equipment comply with the current legislation on electrical safety for places with fire hazard.

7.2. Conditions for safe storage, including any incompatibilities

To shelter from the cold, avoid the storage at temperature lower to 10°C and upper to 40°C
Always keep in a well ventilated place.
Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.
Keep away from food, drink and feed.
Store in closed and labeled containers. Containers should also be protected from damage, accidental shocks and falls.
Store only in the original container.
Incompatible materials:
None in particular.
Instructions as regards storage premises:
Cool and adequately ventilated. Possible vapour's leakages may cause fire or explosion; consequently it's indispensable adequate ventilation to avoid vapour's accumulation.

7.3. Specific end use(s)

Brush adhesive

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

cyclohexane - CAS: 110-82-7
EU - TWA(8h): 700 mg/m³, 200 ppm
ACGIH - TWA(8h): 100 ppm - Notes: CNS impair
ethyl acetate - CAS: 141-78-6



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EU - TWA(8h): 734 mg/m³, 200 ppm - STEL: 1468 mg/m³, 400 ppm

ACGIH - TWA(8h): 400 ppm - Notes: URT and eye irr

MAK - TWA: 730 mg/m³ - Notes: (200 ml/m³)

KZGW - TWA: 1460 mg/m³ - Notes: (400 ml/m³)

toluene - CAS: 108-88-3

AGS - TWA: 192 mg/m³, 50 ppm

EU - TWA(8h): 192 mg/m³, 50 ppm - STEL: 384 mg/m³, 100 ppm - Notes: Skin

ACGIH - TWA(8h): 20 ppm - Notes: A4, BEI - Visual impair, female repro, pregnancy loss

MAK - TWA: 190 mg/m³ - Notes: (50 ml/m³)

KZGW - TWA: 760 mg/m³ - Notes: (200 ml/m³)

zinc oxide - CAS: 1314-13-2

ACGIH - TWA(8h): 2 mg/m³ - STEL: 10 mg/m³ - Notes: (R) - Metal fume fever

MAK - TWA: 3 mg/m³ - Notes: (3 a mg/m³)

KZGW - TWA: 3 mg/m³ - Notes: (3 a mg/m³)

disulfiram; tetraethylthiuramdisulfide - CAS: 97-77-8

ACGIH - TWA(8h): 2 mg/m³ - Notes: A4 - Vasodilation, nausea

Talc (free from asbestos fibers) - CAS: 14807-96-6

ACGIH - TWA(8h): 2 mg/m³ - Notes: Containing no asbestos fibers. (E,R), A4 - Pulm fibrosis, pulm func

reaction mass of ethylbenzene and xylene

TLV/TWA - TWA(8h): 221 mg/m³, 50 ppm - STEL: 442 mg/m³, 100 ppm

DNEL Exposure Limit Values

cyclohexane - CAS: 110-82-7

Worker Professional: 700 mg/m³ - Consumer: 206 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects - Notes: Source: ECHA

Worker Professional: 1400 mg/m³ - Consumer: 412 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects - Notes: Source: ECHA

Worker Professional: 700 mg/m³ - Consumer: 206 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects - Notes: Source: ECHA

Worker Professional: 1400 mg/m³ - Consumer: 412 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects - Notes: Source: ECHA

Worker Professional: 2016 mg/kg bw/day - Consumer: 1186 mg/kg bw/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects - Notes: Source: ECHA

Consumer: 59.4 mg/kg bw/day - Exposure: Human Oral - Frequency: Long Term, systemic effects - Notes: Source: ECHA

ethyl acetate - CAS: 141-78-6

Worker Professional: 734 mg/m³ - Consumer: 367 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects - Notes: Source: ECHA

Worker Professional: 1468 mg/m³ - Consumer: 734 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects - Notes: Source: ECHA

Worker Professional: 734 mg/m³ - Consumer: 367 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects - Notes: Source: ECHA

Worker Professional: 1468 mg/m³ - Consumer: 734 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects - Notes: Source: ECHA

Worker Professional: 63 mg/kg bw/day - Consumer: 37 mg/kg bw/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects - Notes: Source: ECHA

Consumer: 4.5 mg/kg bw/day - Exposure: Human Oral - Frequency: Long Term, systemic effects - Notes: Source: ECHA

toluene - CAS: 108-88-3

Worker Professional: 192 mg/m³ - Consumer: 56.5 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects - Notes: Source: ECHA

Worker Professional: 384 mg/m³ - Consumer: 226 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects - Notes: Source: ECHA

Worker Professional: 192 mg/m³ - Consumer: 56.5 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects - Notes: Source: ECHA

Worker Professional: 384 mg/m³ - Consumer: 226 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects - Notes: Source: ECHA



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Worker Professional: 384 mg/kg bw/day - Consumer: 226 mg/kg bw/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects - Notes: Source: ECHA
Consumer: 8.13 mg/kg bw/day - Exposure: Human Oral - Frequency: Long Term, systemic effects - Notes: Source: ECHA

rosin; colophony - CAS: 8050-09-7
Worker Professional: 10 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects - Notes: Source: ECHA
Worker Professional: 2.131 mg/kg bw/day - Consumer: 1.065 mg/kg bw/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects - Notes: Source: ECHA
Consumer: 1.065 mg/kg bw/day - Exposure: Human Oral - Frequency: Long Term, systemic effects - Notes: Source: ECHA

zinc oxide - CAS: 1314-13-2
Worker Professional: 5 mg/m³ - Consumer: 2.5 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects - Notes: Source: ECHA
Worker Professional: 0.5 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects - Notes: Source: ECHA
Worker Professional: 83 mg/kg bw/day - Consumer: 83 mg/kg bw/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects - Notes: Source: ECHA
Consumer: 0.83 mg/kg bw/day - Exposure: Human Oral - Frequency: Long Term, systemic effects - Notes: Source: ECHA

disulfiram; tetraethylthiuramdisulfide - CAS: 97-77-8
Worker Professional: 0.146 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects - Notes: Source: ECHA
Worker Professional: 0.696 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects - Notes: Source: ECHA
Worker Professional: 0.592 mg/kg bw/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects - Notes: Source: ECHA
Worker Professional: 31 mg/kg bw/day - Exposure: Human Dermal - Frequency: Short Term, systemic effects - Notes: Source: ECHA

Talc (free from asbestos fibers) - CAS: 14807-96-6
Worker Professional: 2.16 mg/m³ - Consumer: 1.08 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects - Notes: Source: ECHA
Worker Professional: 2.16 mg/m³ - Consumer: 1.08 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects - Notes: Source: ECHA
Worker Professional: 3.6 mg/m³ - Consumer: 1.8 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects - Notes: Source: ECHA
Worker Professional: 3.6 mg/m³ - Consumer: 1.8 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects - Notes: Source: ECHA
Worker Professional: 43.2 mg/kg bw/day - Consumer: 21.6 mg/kg bw/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects - Notes: Source: ECHA
Worker Professional: 4.54 mg/cm² - Consumer: 2.27 mg/cm² - Exposure: Human Dermal - Frequency: Long Term, local effects - Notes: Source: ECHA
Consumer: 160 mg/kg bw/day - Exposure: Human Oral - Frequency: Long Term, systemic effects - Notes: Source: ECHA
Consumer: 160 mg/kg bw/day - Exposure: Human Oral - Frequency: Short Term, systemic effects - Notes: Source: ECHA

reaction mass of ethylbenzene and xylene
Worker Professional: 221 mg/m³ - Consumer: 65.3 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects - Notes: Source: ECHA
Worker Professional: 442 mg/m³ - Consumer: 260 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects - Notes: Source: ECHA
Worker Professional: 221 mg/m³ - Consumer: 65.3 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects - Notes: Source: ECHA
Worker Professional: 442 mg/m³ - Consumer: 260 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects - Notes: Source: ECHA



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Worker Professional: 212 mg/kg bw/day - Consumer: 125 mg/kg bw/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects - Notes: Source: ECHA
Consumer: 12.5 mg/kg bw/day - Exposure: Human Oral - Frequency: Long Term, systemic effects - Notes: Source: ECHA

PNEC Exposure Limit Values

cyclohexane - CAS: 110-82-7

Target: Fresh Water - Value: 44.7 ug/L - Notes: Source: ECHA

Target: Marine water - Value: 4.47 ug/L - Notes: Source: ECHA

Target: 08 - Value: 3.24 mg/L - Notes: Source: ECHA

Target: Freshwater sediments - Value: 3.6 mg/kg dw - Notes: Source: ECHA

Target: Marine water sediments - Value: 0.36 mg/kg dw - Notes: Source: ECHA

Target: Soil (agricultural) - Value: 0.694 mg/kg dw - Notes: Source: ECHA

ethyl acetate - CAS: 141-78-6

Target: Fresh Water - Value: 0.24 mg/L - Notes: Source: ECHA

Target: Marine water - Value: 0.024 mg/L - Notes: Source: ECHA

Target: Marine water sediments - Value: 0.115 mg/kg - Notes: Source: ECHA

Target: Freshwater sediments - Value: 1.15 mg/kg - Notes: Source: ECHA

Target: Soil (agricultural) - Value: 0.148 mg/kg - Notes: Source: ECHA

Target: Depuration treatment plant - Value: 650 mg/L - Notes: Source: ECHA

Target: Occasional emission - Value: 1.65 mg/L - Notes: Source: supplier

Target: Food chain - Value: 0.2 mg/kg - Notes: Source: ECHA

toluene - CAS: 108-88-3

Target: Freshwater sediments - Value: 16.39 mg/kg - Notes: Source: ECHA

Target: Marine water sediments - Value: 16.39 mg/kg - Notes: Source: ECHA

Target: Soil (agricultural) - Value: 2.89 mg/kg - Notes: Source: ECHA

Target: Marine water - Value: 0.68 mg/L - Notes: Source: ECHA

Target: Fresh Water - Value: 0.68 mg/L - Notes: Source: ECHA

Target: 08 - Value: 13.61 mg/L - Notes: Source: ECHA

rosin; colophony - CAS: 8050-09-7

Target: Fresh Water - Value: 0.002 mg/L - Notes: Source: ECHA

Target: 08 - Value: 1000 mg/L - Notes: Source: ECHA

Target: Freshwater sediments - Value: 0.007 mg/kg dw - Notes: Source: ECHA

Target: Marine water sediments - Value: 0.001 mg/kg dw - Notes: Source: ECHA

zinc oxide - CAS: 1314-13-2

Target: Fresh Water - Value: 20.6 ug/L - Notes: Source: ECHA

Target: Marine water - Value: 6.1 ug/L - Notes: Source: ECHA

Target: 08 - Value: 100 ug/L - Notes: Source: ECHA

Target: Freshwater sediments - Value: 117.8 mg/kg dw - Notes: Source: ECHA

Target: Marine water sediments - Value: 56.5 mg/kg dw - Notes: Source: ECHA

Target: Soil (agricultural) - Value: 35.6 mg/kg dw - Notes: Source: ECHA

disulfiram; tetraethylthiuramdisulfide - CAS: 97-77-8

Target: 08 - Value: 0.031 mg/L - Notes: Source: ECHA

Target: Freshwater sediments - Value: 0.047 mg/kg dw - Notes: Source: ECHA

Target: Marine water sediments - Value: 0.005 mg/kg dw - Notes: Source: ECHA

Target: Soil (agricultural) - Value: 0.009 mg/kg dw - Notes: Source: ECHA

Talc (free from asbestos fibers) - CAS: 14807-96-6

Target: Fresh Water - Value: 597.97 mg/L - Notes: Source: ECHA

Target: Marine water - Value: 141.26 mg/L - Notes: Source: ECHA

Target: Freshwater sediments - Value: 31.33 mg/kg dw - Notes: Source: ECHA

Target: Marine water sediments - Value: 3.13 mg/kg dw - Notes: Source: ECHA

Target: Air - Value: 10 mg/m³ - Notes: Source: ECHA

reaction mass of ethylbenzene and xylene

Target: Fresh Water - Value: 0.327 mg/L - Notes: Source: ECHA

Target: Marine water - Value: 0.327 mg/L - Notes: Source: ECHA

Target: 08 - Value: 6.58 mg/L - Notes: Source: ECHA

Target: Freshwater sediments - Value: 12.46 mg/kg dw - Notes: Source: ECHA



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Target: Marine water sediments - Value: 12.46 mg/kg dw - Notes: Source: ECHA

Target: Soil (agricultural) - Value: 2.31 mg/kg dw - Notes: Source: ECHA

8.2. Exposure controls

Keep in mind that, as a first intervention, collective technical solutions for the control of exposure should always be preferred.

Below is information for individual exposure control.

Eye protection:

Use close fitting safety goggles and/or visor conforming to EN166.

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Wear work clothes with long sleeves and safety footwear for professional use and category II (see Regulation (EU) 2016/425 and EN 344 standard). Wash with soap and water after removing protective clothing.

Protection for hands:

Use suitable protective gloves (eg Butyl Rubber, > 0.5 mm, onset time > = 480 min, or nitrile rubber, or PVC or neoprene) (ref. Directive 89/686 / EEC and EN 374)

Respiratory protection:

In the absence of suction systems that guarantee concentrations of vapors below the exposure limits (TLV-TWA; TLV STEEL) adequate respiratory protection is required, such as a mask with a combined filter A2-P2 (ref. Standard EN 141 - EN529). the respiratory protection filter class must be adapted to the maximum concentration of toxic substance that can develop in the treatment with the product (EN ISO 14387). Where necessary use a suitable self-contained breathing apparatus (ref. Standard EN 137 or EN 138)

Thermal Hazards:

Wear resistant gloves in case of thermal hazards

Environmental exposure controls:

Expect to applicable regulations

Appropriate engineering controls:

None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes
Physical state:	Liquid	--	--
Colour:	White	--	--
Odour:	Di solvante	--	--
Melting point/freezing point:	Not defined/ Not available	--	--
Boiling point or initial boiling point and boiling range:	75 - 79 ° C	--	Referred to the main solvent
Flammability:	Flam. Liq. 2, H225	--	--
Lower and upper explosion limit:	Not defined/ Not available	--	--
Flash point:	-17 ° C	--	Referred to the main solvent
Auto-ignition temperature:	Not defined/ Not available	--	--
Decomposition temperature:	Not Relevant	--	--
pH:	Not Relevant	--	--
Kinematic viscosity:	1825 ± 100 mm ² /sec	Calculation	--



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Solubility in water:	Non Soluble	--	--
Solubility in oil:	Not Relevant	--	--
Partition coefficient n-octanol/water (log value):	Not Relevant	--	--
Vapour pressure:	0.1 hPa (20°C)	--	Referred to the main solvent
Density and/or relative density:	0,89 ± 0,05 kg/dm ³	internal method MLF003	--
Relative vapour density:	> 1,0 (rif. air = 1,0) Kg/m ³	--	--

Particle characteristics:

Particle size:	N.A.	--	--
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9.2. Other information

Properties	Value	Method:	Notes
Viscosity:	1625 ± 100 cps	internal method MLF001	--
V.O.C. contained :	80.8 % ± 2,0	internal method MLF002	--

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

The mixture is sensitive to heat, when subjected to high temperatures, the container may break and cause spills. In the worst case, can cause a fire.

None

10.4. Conditions to avoid

Stable under normal conditions

10.5. Incompatible materials

Strong acids, bases, oxidants or reducing agents

10.6. Hazardous decomposition products

In case of accidental combustion: carbon oxides (CO, CO₂), nitrogen oxides NO_x, harmful gases

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological information of the product:

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a) acute toxicity

Not classified

Based on available data, the classification criteria are not met

b) skin corrosion/irritation

The product is classified: Skin Irrit. 2 H315

c) serious eye damage/irritation

The product is classified: Eye Irrit. 2 H319

d) respiratory or skin sensitisation

The product is classified: Skin Sens. 1 H317

e) germ cell mutagenicity

Not classified

Based on available data, the classification criteria are not met



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f) carcinogenicity

Not classified

Based on available data, the classification criteria are not met

g) reproductive toxicity

Not classified

Based on available data, the classification criteria are not met

h) STOT-single exposure

The product is classified: STOT SE 3 H336

i) STOT-repeated exposure

Not classified

Based on available data, the classification criteria are not met

j) aspiration hazard

Not classified

Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product:

cyclohexane - CAS: 110-82-7

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg bw - Source: ECHA

Test: LC50 - Route: Inhalation - Species: Rat > 32880 mg/m³ - Duration: 4h - Source: ECHA

Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg bw - Source: ECHA

ethyl acetate - CAS: 141-78-6

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 5620 mg/kg bw - Source: ECHA

Test: LCLo - Route: Inhalation - Species: Rat > 6000 ppm - Duration: 6h - Source: ECHA

Test: LD50 - Route: dermal - Species: Rabbit > 20000 mg/kg bw - Source: ECHA

b) skin corrosion/irritation:

Test: Skin Irritant - Route: dermal - Species: Rabbit Negative - Source: ECHA

toluene - CAS: 108-88-3

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 5580 mg/kg bw - Source: ECHA

Test: LD50 - Route: dermal - Species: Rabbit > 5000 mg/kg bw - Source: ECHA

Test: LC50 - Route: Inhalation - Species: Rat > 20 mg/L - Duration: 4h - Source: ECHA

b) skin corrosion/irritation:

Test: Skin Irritant - Route: dermal - Species: Rabbit Positive - Source: ECHA

rosin; colophony - CAS: 8050-09-7

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg bw - Source: ECHA

Test: LD50 - Route: dermal - Species: Rat > 2000 mg/kg bw - Source: ECHA

solid epoxy resin - CAS: 25036-25-3

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg - Source: Source: supplier

Test: LD50 - Route: dermal - Species: Rat > 2000 mg/kg - Source: Source: supplier

b) skin corrosion/irritation:

Test: Skin Irritant - Route: dermal Positive - Source: Source: supplier

c) serious eye damage/irritation:

Test: Eye Irritant - Route: Eye Positive - Source: Source: supplier

zinc oxide - CAS: 1314-13-2

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg bw - Source: ECHA

Test: LC50 - Route: Inhalation - Species: Rat > 5700 mg/m³ - Duration: 4h - Source: ECHA

Test: LD50 - Route: dermal - Species: Rat > 2000 mg/kg bw - Duration: 24h - Source: ECHA

b) skin corrosion/irritation:

Test: Skin Irritant - Route: dermal - Species: Rabbit No - Source: ECHA

c) serious eye damage/irritation:

Test: Eye Irritant - Route: Eye - Species: Rabbit No - Duration: 24h - Source: ECHA

disulfiram; tetraethylthiuramdisulfide - CAS: 97-77-8



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a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 7074 mg/kg bw - Source: ECHA

Test: LC50 - Route: Inhalation - Species: Rat = 4.42 mg/L - Duration: 4h - Source: ECHA

Test: LD50 - Route: dermal - Species: Rabbit > 2000 mg/kg bw - Source: ECHA

i) STOT-repeated exposure:

Test: NOAEL - Route: Oral - Species: Dog = 1.04 mg/kg bw - Source: ECHA

Talc (free from asbestos fibers) - CAS: 14807-96-6

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg bw - Source: ECHA

Test: LC50 - Route: Inhalation - Species: Rat > 2.1 mg/L - Duration: 4h - Source: ECHA

Test: LD50 - Route: dermal - Species: Rat > 2000 mg/kg bw - Source: ECHA

reaction mass of ethylbenzene and xylene

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 3523 mg/kg bw - Source: ECHA

Test: LC50 - Route: Inhalation - Species: Rat = 29 mg/L - Duration: 4h - Source: ECHA

Test: LD50 - Route: dermal - Species: Rabbit = 12126 mg/kg bw - Source: ECHA

11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration $\geq 0.1\%$

SECTION 12: Ecological information

12.1. Toxicity

Adopt sound working practices, so that the product is not released into the environment. Refer to point 6.2.

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The product is classified: Aquatic Acute 1 - H400; Aquatic Chronic 1 - H410

cyclohexane - CAS: 110-82-7

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 4.35 mg/L - Duration h: 96 - Notes: Source: ECHA

Endpoint: EC50 - Species: Daphnia = 0.9 mg/L - Duration h: 48 - Notes: Source: ECHA

ethyl acetate - CAS: 141-78-6

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 230 mg/L - Duration h: 96 - Notes: Source: ECHA

Endpoint: EC50 - Species: Daphnia = 165 mg/L - Duration h: 48 - Notes: Acqua dolce. Source: ECHA

b) Aquatic chronic toxicity:

Endpoint: EC50 - Species: Daphnia = 346 mg/L - Duration h: 24 - Notes: Marina. Source: ECHA

toluene - CAS: 108-88-3

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 3.78 mg/L - Duration h: 48 - Notes: Source: ECHA

Endpoint: LC50 - Species: Fish = 5.5 mg/L - Duration h: 96 - Notes: Source: ECHA

rosin; colophony - CAS: 8050-09-7

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 1.7 mg/L - Notes: Source: ECHA

Endpoint: LC50 - Species: Daphnia = 1.6 mg/L - Notes: Source: ECHA

zinc oxide - CAS: 1314-13-2

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Pimephales promelas = 0.78 mg/L - Notes: Source: ECHA

Endpoint: EC50 - Species: Daphnia = 0.147 mg/L - Notes: pH 7-8.5, <100mg CaCO₃/l. Source: ECHA

Endpoint: EC50 - Species: Daphnia = 0.228 mg/L - Notes: pH 6-7, >100mg CaCO₃/l. Source: ECHA

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish = 0.025 mg/L - Notes: Source: ECHA

disulfiram; tetraethylthiuramdisulfide - CAS: 97-77-8

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 0.067 mg/L - Duration h: 96 - Notes: Source: ECHA

Endpoint: EC50 - Species: Daphnia = 0.15 mg/L - Duration h: 48 - Notes: Source: ECHA

Talc (free from asbestos fibers) - CAS: 14807-96-6



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a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 89000 mg/L - Duration h: 96 - Notes: Acqua dolce. Source: ECHA

Endpoint: LC50 - Species: Daphnia > 36000 mg/L - Duration h: 48 - Notes: Acqua dolce. Source: ECHA

reaction mass of ethylbenzene and xylene

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 2.6 mg/L - Duration h: 96 - Notes: p-xylene. Source: ECHA

Endpoint: EC50 - Species: Daphnia = 1 mg/L - Duration h: 24 - Notes: p-xylene. Source: ECHA

12.2. Persistence and degradability

None

N.A.

12.3. Bioaccumulative potential

N.A.

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration $\geq 0.1\%$

12.7. Other adverse effects

None

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover if possible. For handling and measures in case of accidental spillage of waste, the general indications in points 6 and 7 apply; precautions and specific actions must be evaluated based on the composition of the waste. Use the waste disposal after evaluating the re-use possibilities.

The preparation to be disposed of and its polluted container, is to be considered SPECIAL DANGEROUS WASTE. Send to authorized disposal facilities through authorized transporters. The waste code according to the European waste catalog can not be specified as it depends on the user. The methods of waste management must be assessed on a case-by-case basis, in relation to the composition of the waste itself, in the light of the provisions of the applicable Community and National legislation. European Directive: 2008/98 / EC and subsequent amendments

SECTION 14: Transport information

Transportation must be carried by vehicles authorized to transport dangerous goods, as prescribed in the current edition of the A.D.R. and the applicable national provisions. Transport is to be in original packaging.

14.1. UN number or ID number

ADR-UN number: 1133

IATA-Un number: 1133

IMDG-Un number: 1133

14.2. UN proper shipping name

ADR-Shipping Name: ADHESIVES

IATA-Technical name: ADHESIVES

IMDG-Technical name: ADHESIVES

14.3. Transport hazard class(es)

ADR-Class: 3

ADR-Label: 3

IATA-Class: 3

IATA-Label: 3

IMDG-Class: 3

IMDG-Label: 3

14.4. Packing group

ADR-Packing Group: II

IATA-Packing group: II

IMDG-Packing group: II

14.5. Environmental hazards



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Dangers to the environment : Danger

IMDG-EMS: II

14.6. Special precautions for user

14.7. Maritime transport in bulk according to IMO instruments

N.A.

SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 2020/878

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP)

Regulation (EU) n. 2018/669 (ATP 11 CLP)

Regulation (EU) n. 2018/1480 (ATP 13 CLP)

Regulation (EU) n. 2019/521 (ATP 12 CLP)

Regulation (EU) n. 2020/217 (ATP 14 CLP)

Regulation (EU) n. 2020/1182 (ATP 15 CLP)

Regulation (EU) n. 2021/643 (ATP 16 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

Restriction 3

Restriction 40

Restrictions related to the substances contained:

Restriction 48

Restriction 57

Restriction 75

When applicable refers to the following regulations.

Directive 2012/18/EU (Seveso III)

Regulation (EC) nr 648/2004 (detergents).

Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

Product belongs to category: P5c, E1

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

Full text of phrases referred to in Section 3:

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.



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H336 May cause drowsiness or dizziness.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H319 Causes serious eye irritation.
EUH066 Repeated exposure may cause skin dryness or cracking.
H361d Suspected of damaging the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.
H317 May cause an allergic skin reaction.
H302 Harmful if swallowed.
H226 Flammable liquid and vapour.
H335 May cause respiratory irritation.
H332 Harmful if inhaled.
H312 Harmful in contact with skin.
H412 Harmful to aquatic life with long lasting effects.

Hazard class and hazard category	Code	Description
Flam. Liq. 2	2.6/2	Flammable liquid, Category 2
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Acute Tox. 4	3.1/4/Dermal	Acute toxicity (dermal), Category 4
Acute Tox. 4	3.1/4/Inhal	Acute toxicity (inhalation), Category 4
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Asp. Tox. 1	3.10/1	Aspiration hazard, Category 1
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Skin Sens. 1	3.4.2/1	Skin Sensitisation, Category 1
Skin Sens. 1,1A,1B	3.4.2/1-1A-1B	Skin Sensitisation, Category 1,1A,1B
Skin Sens. 1B	3.4.2/1B	Skin Sensitisation, Category 1B
Repr. 2	3.7/2	Reproductive toxicity, Category 2
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
STOT RE 2	3.9/2	Specific target organ toxicity - repeated exposure, Category 2
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3

This safety data sheet has been completely updated in compliance to Regulation 2020/878.
Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Flam. Liq. 2, H225	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1, H317	Calculation method
STOT SE 3, H336	Calculation method
Aquatic Acute 1, H400	Calculation method
Aquatic Chronic 1, H410	Calculation method

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:
NIOSH - Registry of toxic effects of chemical substances (1983)



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I.N.R.S. - Fiche Toxicologique

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This document was prepared by a competent person who has received appropriate training.

This MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.