

Safety Data Sheet

V-8959B



Safety Data Sheet dated 19/1/2023, version 2

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

1.1. Product identifier

Mixture identification:
Trade name: V-8959B
Trade code: MIL2209

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

HARDENER FOR V-8959A

1.3. Details of the supplier of the safety data sheet

Company:
N.V.S.C. Srl
VIA S. MARTINO, 6 - 15028 QUATTORDIO (AL) - ITALIA TEL. +39-0131-773403

Competent person responsible for the safety data sheet:
g.venezia@nvsc.it







1.4. Emergency telephone number

National Poison Information Service (NPIS) – Birmingham (UK)
–director.birmingham.unit@npis.org
Croatian Institute for Toxicology and Antidoping – Zagreb (HR) –+385 01 46 41 368
Centro de Informacao Antivenenos Instituto nacional de Emergencia Medica
Lisboa (P)- +351 213 303 271
Norwegian Environment Agency – Trondheim (N) - +47 73 58 05 00 Bloemfontein
Poison Control and Medicine
Information Centre – Bloemfontein (ZA) - +27 824 910 160
Israel Poison Information Centre – Haifa (IL) - +97 248 541 900
Swiss Toxicological Information Centre – Zurich (CH) - +41 44 251 51 51
Ryadh Poison Control Center – Riyadh (SA) - +966 111 232 41 89
–pcc-riyadh@moh.gov.sa

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

-  Warning, Flam. Liq. 3, Flammable liquid and vapour.
-  Warning, Acute Tox. 4, Harmful if swallowed.
-  Danger, Acute Tox. 3, Toxic if inhaled.
-  Danger, Skin Corr. 1B, Causes severe skin burns and eye damage.
-  Danger, Eye Dam. 1, Causes serious eye damage.
-  Warning, Skin Sens. 1, May cause an allergic skin reaction.

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 Warning, STOT SE 3, May cause respiratory irritation.

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

Aquatic Chronic 3, Harmful 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:



Danger

Hazard statements:

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H331 Toxic if inhaled.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H412 Harmful 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.

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

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor/...

P370+P378 In case of fire: Use ... to extinguish.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P403+P235 Store in a well-ventilated place. Keep cool.

Special Provisions:

EUH066 Repeated exposure may cause skin dryness or cracking.

Contains

2,2'-iminodiethylamine; diethylenetriamine

5-methylhexan-2-one; isoamyl methyl ketone

4,4'-Isopropylidenediphenol, oligomeric reaction products with

1-chloro-2,3-epoxypropane

butan-1-ol; n-butanol

[3-(2-Aminoetilamino)propil]trimetossisilano: May produce an allergic reaction.

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

None

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2.3. Other hazards

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

Other Hazards:

No other hazards













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
$\geq 30\%$ - $< 40\%$	5-methylhexan-2-one; isoamyl methyl ketone	Index number: 606-026-00-4 CAS: 110-12-3 EC: 203-737-8 REACH No.: 01-211947230-0-51	 2.6/3 Flam. Liq. 3 H226  3.1/4/Inhal Acute Tox. 4 H332
$\geq 20\%$ - $< 25\%$	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane	Index number: 603-074-00-8 CAS: 25068-38-6 EC: 500-033-5 REACH No.: 01-211945661-9-26	 3.2/2 Skin Irrit. 2 H315  3.4.2/1 Skin Sens. 1 H317  3.3/2 Eye Irrit. 2 H319  4.1/C2 Aquatic Chronic 2 H411 Specific Concentration Limits: C $\geq 5\%$: Skin Irrit. 2 H315 C $\geq 1\%$: Skin Sens. 1 H317 C $\geq 5\%$: Eye Irrit. 2 H319 C $\geq 25\%$: Aquatic Chronic 2 H411 2,5% \leq C $< 25\%$: Aquatic Chronic 3 H412 C $\geq 25\%$: Aquatic Chronic 4 H413
$\geq 15\%$ - $< 20\%$	butan-1-ol; n-butanol	Index number: 603-004-00-6 CAS: 71-36-3 EC: 200-751-6 REACH No.: 01-21194846-30-38	 2.6/3 Flam. Liq. 3 H226  3.8/3 STOT SE 3 H336  3.1/4/Oral Acute Tox. 4 H302  3.2/2 Skin Irrit. 2 H315  3.3/1 Eye Dam. 1 H318  3.8/3 STOT SE 3 H335 Specific Concentration Limits: C $\geq 10\%$: Skin Irrit. 2 H315 C $\geq 3\%$: Eye Dam. 1 H318 1% \leq C $< 3\%$: Eye Irrit. 2 H319 C $\geq 20\%$: STOT SE 3 H335 C $\geq 20\%$: STOT SE 3 H336

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>= 7% - < 10%	1-methoxy-2-propanol; monopropylene glycol methyl ether	Index number: 603-064-00-3 CAS: 107-98-2 EC: 203-539-1 REACH No.: 01-2119457435-35	 2.6/3 Flam. Liq. 3 H226  3.8/3 STOT SE 3 H336 Specific Concentration Limits: C >= 20%: STOT SE 3 H336
>= 7% - < 10%	2,2'-iminodiethylamine; diethylenetriamine	Index number: 612-058-00-X CAS: 111-40-0 EC: 203-865-4 REACH No.: 01-2119473793-27	 3.1/4/Oral Acute Tox. 4 H302  3.3/1 Eye Dam. 1 H318  3.1/4/Dermal Acute Tox. 4 H312  3.2/1B Skin Corr. 1B H314  3.4.2/1 Skin Sens. 1 H317  3.1/2/Inhal Acute Tox. 2 H330  3.8/3 STOT SE 3 H335 Specific Concentration Limits: C >= 5%: Skin Corr. 1B H314 C >= 5%: Skin Corr. 1C H314 1% <= C < 5%: Skin Irrit. 2 H315 C >= 1%: Skin Sens. 1 H317 C >= 3%: Eye Dam. 1 H318 1% <= C < 3%: Eye Irrit. 2 H319 C >= 20%: STOT SE 3 H335
>= 0.5% - < 1%	[3-(2-Aminoethylamino)propyl]trimetossilano	CAS: 1760-24-3 EC: 217-164-6	 3.2/2 Skin Irrit. 2 H315  3.4.2/1 Skin Sens. 1 H317  3.3/1 Eye Dam. 1 H318 Specific Concentration Limits: C >= 10%: Skin Irrit. 2 H315 C >= 1%: Skin Sens. 1 H317 C >= 3%: Eye Dam. 1 H318 1% <= C < 3%: Eye Irrit. 2 H319

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:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

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Protect uninjured eye.

In case of Ingestion:

Give nothing to eat or drink.

In case of Inhalation:

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

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

None

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:

None

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO₂).

In case of fire: Use ... to extinguish.

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products:

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:

Wear personal protection equipment.

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

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

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.

7.2. Conditions for safe storage, including any incompatibilities

Always keep the containers tightly closed.

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

Packaging materials:

7.3. Specific end use(s)

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

5-methylhexan-2-one; isoamyl methyl ketone - CAS: 110-12-3

- OEL Type: EU - TWA(8h): 95 mg/m³, 20 ppm

- OEL Type: ACGIH - TWA(8h): 20 ppm - STEL: 50 ppm - Notes: CNS impair, URT irr

butan-1-ol; n-butanol - CAS: 71-36-3

- OEL Type: EPY_TLV-ACGIH - TWA: 61 mg/m³, 20 ppm

- OEL Type: EPY_TLV - TWA: 100 mg/m³

- OEL Type: ACGIH - TWA(8h): 20 ppm - Notes: Eye and URT irr

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

- OEL Type: EPY_OEL - TWA: 375 mg/m³, 100 ppm - STEL: 568 mg/m³, 150 ppm

- OEL Type: EPY_TLV-ACGIH - TWA: 369 mg/m³, 100 ppm - STEL: 553 mg/m³, 150 ppm

- OEL Type: EU - TWA(8h): 375 mg/m³, 100 ppm - STEL: 563 mg/m³, 150 ppm

- Notes: Skin

- OEL Type: ACGIH - TWA(8h): 50 ppm - STEL: 100 ppm - Notes: A4 - Eye and URT irr

2,2'-iminodiethylamine; diethylenetriamine - CAS: 111-40-0

- OEL Type: EPY_TLV-ACGIH - TWA: 4.2 mg/m³, 1 ppm

- OEL Type: EPY_TLV - TWA: 4 mg/m³

- OEL Type: ACGIH - TWA(8h): 1 ppm - Notes: Skin - URT and eye irr

DNEL Exposure Limit Values

5-methylhexan-2-one; isoamyl methyl ketone - CAS: 110-12-3

Consumer: 7.25 03 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 7.33 04 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

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Consumer: 25.2 04 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Professional: 818 04 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
Worker Professional: 95 04 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 7.25 03 - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Professional: 8 03 - Exposure: Human Dermal - Frequency: Long Term, systemic effects

4,4'-Isopropylidenediphenol, oligomeric reaction products with
1-chloro-2,3-epoxypropane - CAS: 25068-38-6
Worker Professional: 8.3 03 - Exposure: Human Dermal - Frequency: Short Term, systemic effects
Worker Professional: 12.3 04 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
Worker Professional: 8.3 03 - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Professional: 12.3 04 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 3.6 03 - Exposure: Human Dermal - Frequency: Short Term, systemic effects
Consumer: .75 04 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
Consumer: .75 03 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
Consumer: 3.6 03 - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Consumer: .75 04 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: .75 03 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

butan-1-ol; n-butanol - CAS: 71-36-3
Consumer: 3125 06 - Exposure: Human Dermal - Frequency: Long Term, systemic effects

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2
Consumer: 33 03 - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Consumer: 43.9 04 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Professional: 553.5 04 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
Worker Professional: 369 04 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 78 03 - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Professional: 183 03 - Exposure: Human Dermal - Frequency: Long Term, systemic effects

2,2'-iminodiethylamine; diethylenetriamine - CAS: 111-40-0
Consumer: 27.5 04 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

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Consumer: 4.6 04 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 2.6 04 - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Professional: .87 04 - Exposure: Human Inhalation - Frequency: Long Term, local effects

Consumer: 4.88 03 - Exposure: Human Dermal - Frequency: Short Term, systemic effects

Consumer: 4.88 03 - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Professional: 11.4 03 - Exposure: Human Dermal - Frequency: Short Term, systemic effects

PNEC Exposure Limit Values

5-methylhexan-2-one; isoamyl methyl ketone - CAS: 110-12-3

Target: Fresh Water - Value: 0.1 mg/l

Target: Marine water - Value: 0.01 mg/l

Target: Freshwater sediments - Value: 1.12 mg/kg

Target: Marine water sediments - Value: 0.112 mg/kg

Target: 10 - Value: 1 mg/l

Target: Microorganisms in sewage treatments - Value: 100 mg/l

Target: 09 - Value: 0.66 mg/kg

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane - CAS: 25068-38-6

Target: Fresh Water - Value: 0.003 mg/l

Target: Marine water - Value: 0.0003 mg/l

Target: Microorganisms in sewage treatments - Value: 10 mg/l

Target: Freshwater sediments - Value: 0.5 04

Target: Marine water sediments - Value: 0.5 04

Target: 10 - Value: 0.013 mg/l

Target: 09 - Value: 0.05 04

butan-1-ol; n-butanol - CAS: 71-36-3

Target: Fresh Water - Value: 82 mg/l

Target: Marine water - Value: 82 mg/l

Target: Freshwater sediments - Value: 178 mg/kg

Target: Marine water sediments - Value: 178 mg/kg

Target: 10 - Value: 225 mg/l

Target: Microorganisms in sewage treatments - Value: 2476 mg/l

Target: 09 - Value: 15 mg/kg

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

Target: Fresh Water - Value: 10 mg/l

Target: Marine water - Value: 1 mg/l

Target: Freshwater sediments - Value: 52.3 mg/kg

Target: Marine water sediments - Value: 5.2 mg/kg

Target: 10 - Value: 100 mg/l

Target: Microorganisms in sewage treatments - Value: 100 mg/l

Target: 09 - Value: 4.59 mg/kg

2,2'-iminodiethylamine; diethylenetriamine - CAS: 111-40-0

Target: Fresh Water - Value: 56 mg/l

Target: Marine water - Value: 56 mg/l

Target: Freshwater sediments - Value: 1072 04

Target: Marine water sediments - Value: 1072 04

Target: Microorganisms in sewage treatments - Value: 6 mg/l

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Target: 09 - Value: 214 04

8.2. Exposure controls

Eye protection:

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

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Use adequate protective respiratory equipment.

Thermal Hazards:

None

Environmental exposure controls:

None

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:	Amber	--	--
Odour:	Characteristi c	--	--
Melting point/freezing point:	N.A.	--	--
Boiling point or initial boiling point and boiling range:	114°C	--	--
Flammability:	Flam. Liq. 3, H226	--	--
Lower and upper explosion limit:	N.A.	--	--
Flash point:	23 ° C	--	--
Auto-ignition temperature:	330°C	--	--
Decomposition temperature:	N.A.	--	--
pH:	N.A.	--	--
Kinematic viscosity:	<= 20,5 mm ² /sec (40 °C)	--	--
Solubility in water:	INSOL	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient n-octanol/water (log value):	N.A.	--	--
Vapour pressure:	N.A.	--	--

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Density and/or relative density:	0.92 g/ml	--	--
Relative vapour density:	N.A.	--	--
Particle characteristics:			
Particle size:	N.A.	--	--

9.2. Other information

Properties	Value	Method:	Notes
Explosive properties:	No	--	--
Viscosity:	<20.5 mm ² /s 40°C	--	--
Oxidizing properties:	No	--	--

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

None

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

None.

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

The product is classified: Acute Tox. 4 H302;Acute Tox. 3 H331

ATEmix - Oral 1766,78 mg/kg bw

ATEmix - Inhalation (Vapours) 4,68085 mg/l

b) skin corrosion/irritation

The product is classified: Skin Corr. 1B H314

c) serious eye damage/irritation

The product is classified: Eye Dam. 1 H318

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

f) carcinogenicity

Not classified

Based on available data, the classification criteria are not met

g) reproductive toxicity

Not classified

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- Based on available data, the classification criteria are not met
- h) STOT-single exposure
The product is classified: STOT SE 3 H335;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:
- butan-1-ol; n-butanol - CAS: 71-36-3
- a) acute toxicity:
Test: LD50 - Route: EPY_ORAL 790 - Notes: Rat
Test: LD50 - Route: EPY_DERMAL 3400 - Notes: Rabbit
Test: LC50 - Route: EPY_INHALATION 8000 - Notes: Rat
- 1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2
- a) acute toxicity:
Test: LD50 - Route: EPY_DERMAL 13000 - Notes: Rabbit
Test: LC50 - Route: EPY_INHALATION 54.6 - Notes: Rat
Test: LD50 - Route: EPY_ORAL 5300 - Notes: Rat
- 2,2'-iminodiethylamine; diethylenetriamine - CAS: 111-40-0
- a) acute toxicity:
Test: LD50 - Route: EPY_DERMAL 1045 - Notes: Rabbit
Test: LC50 - Route: EPY_INHALATION 1.8 - Notes: Rat
Test: LD50 - Route: EPY_ORAL 1140 - Notes: Rat
- [3-(2-Amminoetilamino)propil]trimetossisilano - CAS: 1760-24-3
- a) acute toxicity:
Test: LD50 - Route: EPY_ORAL - Species: Rat 7669 - Notes: ratto
- 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 good working practices, so that the product is not released into the environment.
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The product is classified: Aquatic Chronic 3 - H412
[3-(2-Amminoetilamino)propil]trimetossisilano - CAS: 1760-24-3
- a) Aquatic acute toxicity:
Endpoint: EPY_EC10 - Species: Algae 126 - Duration h: 72h - Notes: *Desmodesmus subspicatus*
Endpoint: LC50 - Species: Fish 597 - Duration h: 96h - Notes: *Danio rerio*
- 12.2. Persistence and degradability
N.A.
- 12.3. Bioaccumulative potential
N.A.
- 12.4. Mobility in soil
N.A.
- 12.5. Results of PBT and vPvB assessment

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- 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. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information



- 14.1. UN number or ID number
- | | |
|------------------------|------|
| ADR-UN Number: | 3470 |
| ADR/RID/ADN-UN Number: | 3470 |
| ADR/RID-UN Number: | 3470 |
| ADR/ADN-UN Number: | 3470 |
| IATA-UN Number: | 3470 |
| IMDG-UN Number: | 3470 |
- 14.2. UN proper shipping name
- | | |
|----------------------------|-----------------------------|
| ADR-Shipping Name: | PAINT, CORROSIVE, FLAMMABLE |
| ADR/RID-Shipping Name: | PAINT, CORROSIVE, FLAMMABLE |
| ADR/ADN-Shipping Name: | PAINT, CORROSIVE, FLAMMABLE |
| ADR/RID/ADN-Shipping Name: | PAINT, CORROSIVE, FLAMMABLE |
| IATA-Shipping Name: | PAINT, CORROSIVE, FLAMMABLE |
| IMDG-Shipping Name: | PAINT, CORROSIVE, FLAMMABLE |
- 14.3. Transport hazard class(es)
- | | |
|-------------------------------------|-------|
| ADR-Class: | 8 |
| ADR/RID-Class: | 8 |
| ADR/ADN-Class: | 8 |
| ADR/RID/ADN-Class: | 8 |
| ADR - Hazard identification number: | 83 |
| IATA-Class: | 8 |
| IATA-Label: | 8 + 3 |
| IMDG-Class: | 8 |
- 14.4. Packing group
- | | |
|----------------------------|----|
| ADR-Packing Group: | II |
| ADR/RID-Packing Group: | II |
| ADR/ADN-Packing Group: | II |
| ADR/RID/ADN-Packing Group: | II |
| IATA-Packing group: | II |
| IMDG-Packing group: | II |
- 14.5. Environmental hazards

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ADR-Environmental Pollutant:	No
IMDG-Marine pollutant:	No
IMDG-EmS:	F-E , S-C
14.6. Special precautions for user	
ADR-Subsidiary hazards:	3
ADR-S.P.:	163 367
ADR-Transport category (Tunnel restriction code):	2 (D/E)
IATA-Passenger Aircraft:	851
IATA-Subsidiary hazards:	3
IATA-Cargo Aircraft:	855
IATA-S.P.:	A72 A192
IATA-ERG:	8F
IMDG-Subsidiary hazards:	3
IMDG-Stowage and handling:	Category B SW2
IMDG-Segregation:	-
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)
Regulation (EU) n. 2021/849 (ATP 17 CLP)
Regulation (EU) n. 2022/692 (ATP 18 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 75

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Volatile Organic compounds - VOCs = 0.00 g/l

Volatile CMR substances = 0.00 %

Halogenated VOCs which are assigned the risk phrase R40 = 0.00 %

Organic Carbon - C = 0.00

Where applicable, refer to the following regulatory provisions :

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, H2

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:

H226 Flammable liquid and vapour.

H332 Harmful if inhaled.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life.

H336 May cause drowsiness or dizziness.

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H330 Fatal if inhaled.

Hazard class and hazard category	Code	Description
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Acute Tox. 2	3.1/2/Inhal	Acute toxicity (inhalation), Category 2
Acute Tox. 3	3.1/3/Inhal	Acute toxicity (inhalation), 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
Skin Corr. 1B	3.2/1B	Skin corrosion, Category 1B
Skin Corr. 1C	3.2/1C	Skin corrosion, Category 1C
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Skin Sens. 1	3.4.2/1	Skin Sensitisation, Category 1
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3

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Aquatic Chronic 2	4.1/C2	Chronic (long term) aquatic hazard, category 2
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3
Aquatic Chronic 4	4.1/C4	Chronic (long term) aquatic hazard, category 4

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. 3, H226	On basis of test data
Acute Tox. 4, H302	Calculation method
Acute Tox. 3, H331	Calculation method
Skin Corr. 1B, H314	Calculation method
Eye Dam. 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method
STOT SE 3, H335	Calculation method
STOT SE 3, H336	Calculation method
Aquatic Chronic 3, H412	Calculation method

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

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

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 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.

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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.