



Safety Data Sheet REVEAL STRONG



Safety Data Sheet dated 1/8/2022, version 1

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

1.1. Product identifier

Mixture identification:

Trade name: REVEAL STRONG
Trade code: 9.REVEALH750 / 9.REVEALH5L

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

Recommended use:

Removal of abrasive paste residues for bodywork / cleaning and preparation of the bodywork for polishing

Uses advised against:

Any different use other than the above specified.

1.3. Details of the supplier of the safety data sheet

Company:

RUPES S.p.A.
Via Marconi, 3A
Loc. Vermezzo, 20071 Vermezzo con Zelo (MI) – Italy

Competent person responsible for the safety data sheet:

e-mail: info_rupes@rupes.it

tel.: +39 02946941

11.4. Emergency telephone number

Country	Emergency number	Country	Emergency number
Austria	+43 01406 43 43 (24/7)	Ireland	+353 01 809 2566 (24/7)
Belgium	+ 32 070 245 245 (24/7)	Latvia	+371 67042473 (24/7) 112
Bulgaria	+359 2 9154 233 (24/7)	Lithuania	+370 (85) 2362052 (24/7)
Croatia	+3851 2348 342 (24/7)	Luxembourg	+352 8002 5500 (24/7)
Cyprus	1401 (24/7)	Malta	112
Czech Republic	+420 224 919 293 (24/7)	Netherlands	+31 (0) 88 755 8000 (24/7)
Denmark	+45 8212 1212	Norway	+47 22 59 13 00 (24/7)
Estonia	+372 7943 794 (24/7) 16662 (National, 24/7)	Poland	112
Finland	+ 358 0800 147 111 (24/7)	Portugal	+351 800 250 250 (24/7)
France	+33 (0)1 45 42 59 59 (24/7)	Romania	+40 (0) 021318 3606 (24/7)
Germany	112	Slovakia	+421 2 5477 4166 (24/7)
Greece	+0030 2107793777 (24/7)	Slovenia	112
Hungary	+36 80 201 199 (24/7)	Spain	+ 34 91 562 04 20
Iceland	+354 5432222 (24/7) 112	Sweden	112

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, Eye Irrit. 2, Causes serious eye irritation.
- Warning, STOT SE 3, May cause drowsiness or dizziness.

Adverse physicochemical, human health and environmental effects:

No other hazards

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2.2. Label elements

Hazard pictograms:



Danger

Hazard statements:

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P261 Avoid breathing vapours.

P280 Wear protective gloves and eye/face protection.

P370+P378 In case of fire, use a dry powder fire extinguisher to extinguish.

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

Special Provisions:

None

Contains

Propan-2-ol

1-methoxy-2-propanol

Ethyl acetate

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

None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable




3.2. Mixtures

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

Qty	Name	Ident. Number	Classification
>= 25% - < 50%	Ethanol	Index number: 603-002-00-5 CAS: 64-17-5 EC: 200-578-6 REACH No.: 01-2119457610-43	2.6/2 Flam. Liq. 2 H225 3.3/2 Eye Irrit. 2 H319
>= 25% - < 50%	Isopropanol	Index number: 603-117-00-0 CAS: 67-63-0 EC: 200-661-7 REACH No.: 01-2119457558-25	2.6/2 Flam. Liq. 2 H225 3.3/2 Eye Irrit. 2 H319 3.8/3 STOT SE 3 H336
>= 10% - < 25%	1-Methoxy-2-propanol	Index number: 603-064-00-3 CAS: 107-98-2 EC: 203-539-1 REACH No.: 01-2119457435-3	2.6/3 Flam. Liq. 3 H226 3.8/3 STOT SE 3 H336



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>= 1% - < 2.5%	Ethyl acetate	Index number: CAS: EC: REACH No.:	607-022-00-5 141-78-6 205-500-4 01-2119475103-46	 2.6/2 Flam. Liq. 2 H225  3.3/2 Eye Irrit. 2 H319  3.8/3 STOT SE 3 H336 EUH066
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SECTION 4: First aid measures

4.1. Description of first aid measures

In case of eyes contact:

In case of contact with eyes rinse with water for an adequate period of time and keeping your eyelids open, then consult an ophthalmologist immediately. Protect the unharmed eye.

In case of skin contact:

Remove contaminated clothing immediately. Wash immediately with plenty of running water and eventually soap the areas of the body that have come into contact with the product, even if only suspect.

In case of Ingestion:

Do not induce vomiting. Get medical attention immediately.

In case of Inhalation:

Bring the injured person to the open air and keep it warm and at rest.

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

In case of eyes contact:

Redness, oedema, pain and tearing.

In case of Ingestion:

Abdominal pain with burns, nausea and vomiting.

In case of Inhalation:

Moderate upper respiratory tract irritation.

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

In case of accident or if you feel unwell, seek medical advice immediately (show the instruction manual or the safety data sheet if possible). Treatment: None.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Use chemical extinguishing powder, carbon dioxide (CO₂) or foam extinguishers.

Extinguishing media which must not be used for safety reasons:

Do not use a direct water jet as the product may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

In the event of combustion carbon oxides (CO_x) can be formed.

5.3. Advice for firefighters

Always wear complete fire protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove all sources of ignition.

Remove persons to safety.

See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For containment:

Store in suitable closed containers.



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For cleaning up:

Block the leakage as possible. Swipe up the product with adsorbent materials as sand or vermiculite. Transfer the product in a clean and dry container. Wash the area of the spillage and dispose of the waste according to national/local legislation. Always wear safety equipment while operating.

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

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:

Handle and use according to the hygiene and safety standards of good industrial practice.

7.2. Conditions for safe storage, including any incompatibilities

Keep the substance in apposite and closed containers. Keep in a dry, ventilate place.

Always keep in a well ventilated place.

Store at below 20 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Keep away from food, drink and feed.

Incompatible materials:

Strong oxidising agents.

Keep away from combustible materials.

Instructions as regards storage premises:

Cool and adequately ventilated.

7.3. Specific end use(s)

See section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Ethanol - CAS: 64-17-5

National - TWA(8h): 1900 mg/m³, 1000 ppm - STEL(15min): 3800 mg/m³, 2000 ppm -

Notes: Austria

National - TWA(8h): 1907 mg/m³, 1000 ppm - Notes: Belgium

National - TWA(8h): 960 mg/m³, 500 ppm - STEL(15min): 1920 mg/m³, 1000 ppm -

Notes: Germany

National - TWA(8h): 1910 mg/m³, 1000 ppm - Notes: Spain

National - TWA(8h): 1900 mg/m³, 1000 ppm - STEL(15min): 9500 mg/m³, 5000 ppm -

Notes: France

National - TWA(8h): 1920 mg/m³, 1000 ppm - Notes: United Kingdom and Greece

National - TWA(8h): 260 mg/m³ - STEL(15min): 1900 mg/m³ - Notes: Netherlands

National - STEL(15min): 1000 ppm - Notes: Ireland

National - TWA(8h): 1900 mg/m³ - Notes: Poland

ACGIH - STEL: 1000 ppm - Notes: A3 - URT irr

Isopropanol - CAS: 67-63-0

ACGIH - TWA(8h): 200 ppm - STEL: 400 ppm - Notes: A4, BEI - Eye and URT irr, CNS impair



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1-Methoxy-2-propanol - CAS: 107-98-2

EU - TWA(8h): 375 mg/m³, 100 ppm - STEL: 563 mg/m³, 150 ppm - Notes: Skin
ACGIH - TWA(8h): 50 ppm - STEL: 100 ppm - Notes: A4 - Eye and URT irr

Ethyl acetate - CAS: 141-78-6

EU - TWA(8h): 734 mg/m³, 200 ppm - STEL: 1468 mg/m³, 400 ppm
ACGIH - TWA(8h): 400 ppm - Notes: URT and eye irr

DNEL Exposure Limit Values

Ethanol - CAS: 64-17-5

Worker Industry: 950 mg/m³ - Consumer: 114 mg/m³ - Exposure: Human Inhalation
- Frequency: Long Term, systemic effects - Endpoint: Repeated dose toxicity
(inhalation) - Notes: ECHA

Worker Industry: 1900 mg/m³ - Consumer: 950 mg/m³ - Exposure: Human Inhalation
- Frequency: Short Term, local effects - Endpoint: Acute toxicity-irritation (inhalation)

Worker Industry: 343 mg/kg - Consumer: 206 mg/kg - Exposure: Human Dermal -
Frequency: Long Term, systemic effects - Endpoint: Repeated dose toxicity (dermal)

Consumer: 87 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic
effects - Endpoint: Repeated dose toxicity (oral)

Isopropanol - CAS: 67-63-0

Worker Industry: 500 mg/m³ - Consumer: 89 mg/m³ - Exposure: Human Inhalation -
Frequency: Short Term, systemic effects - Endpoint: Repeated dose toxicity (inhalation)
- Notes: ECHA Database

Worker Industry: 888 mg/kg - Consumer: 319 mg/kg - Exposure: Human Dermal -
Frequency: Long Term, systemic effects - Endpoint: Repeated dose toxicity (dermal)

Consumer: 26 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic
effects - Endpoint: Repeated dose toxicity (oral)

1-Methoxy-2-propanol - CAS: 107-98-2

Worker Industry: 369 mg/m³ - Consumer: 43.9 mg/m³ - Exposure: Human Inhalation
- Frequency: Long Term, systemic effects - Endpoint: Repeated dose toxicity
(inhalation) - Notes: ECHA database

Worker Industry: 553.5 mg/m³ - Exposure: Human Inhalation - Frequency: Short
Term, local effects - Endpoint: Acute toxicity-irritation (inhalation)

Worker Industry: 183 mg/kg bw/day - Consumer: 78 mg/kg bw/day - Exposure: Human
Dermal - Frequency: Long Term, systemic effects - Endpoint: Repeated dose toxicity
(dermal)

Consumer: 33 mg/kg bw/day - Exposure: Human Oral - Frequency: Long Term,
systemic effects - Endpoint: Repeated dose toxicity (oral)

Ethyl acetate - CAS: 141-78-6

Worker Industry: 734 mg/m³ - Consumer: 367 mg/m³ - Exposure: Human Inhalation
- Frequency: Long Term, systemic effects

Worker Industry: 1468 mg/m³ - Consumer: 734 mg/m³ - Exposure: Human Inhalation
- Frequency: Short Term (acute)

Worker Industry: 734 mg/m³ - Consumer: 367 mg/m³ - Exposure: Human Inhalation
- Frequency: Long Term, local effects

Worker Industry: 63 mg/kg bw/day - Consumer: 37 mg/kg bw/day - Exposure: Dermal -
Frequency: Long Term, systemic effects

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

PNEC Exposure Limit Values

Ethanol - CAS: 64-17-5

Target: Fresh Water - Value: 0.96 mg/l - Notes: ECHA

Target: Marine water - Value: 0.79 mg/l

Target: Intermittent release - Value: 2.75 mg/l

Target: Sewage treatment plant - Value: 580 mg/l

Target: Freshwater sediments - Value: 3.6 mg/kg

Target: Soil (agricultural) - Value: 0.63 mg/kg



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- Target: Food chain - Value: 0.00072 mg/kg
- Isopropanol - CAS: 67-63-0
- Target: Fresh Water - Value: 140.9 mg/l - Notes:: ECHA Database
 - Target: Marine water - Value: 140.9 mg/l
 - Target: Freshwater sediments - Value: 552 mg/kg
 - Target: Marine water sediments - Value: 552 mg/kg
 - Target: Soil (agricultural) - Value: 28 mg/kg
 - Target: STP - Value: 2251 mg/l
- 1-Methoxy-2-propanol - CAS: 107-98-2
- Target: Fresh Water - Value: 10 mg/l - Notes:: ECHA database
 - Target: Marine water - Value: 1 mg/l
 - Target: Intermittent release - Value: 100 mg/l
 - Target: Sewage treatment plant - Value: 100 mg/l
 - Target: Freshwater sediments - Value: 52.3 mg/kg
 - Target: Marine water sediments - Value: 5.2 mg/kg
 - Target: Soil (agricultural) - Value: 4.59 mg/kg
- Ethyl acetate - CAS: 141-78-6
- Target: Fresh Water - Value: 0.24 mg/l
 - Target: Marine water - Value: 0.024 mg/l
 - Target: STP - Value: 650 mg/l
 - Target: Freshwater sediments - Value: 1.15 mg/kg sediment dw
 - Target: Marine water sediments - Value: 0.115 mg/kg sediment dw

8.2. Exposure controls

Given that the use of appropriate technical measures should always have priority over personal protection equipment, ensure good ventilation at the workplace by means of effective local suction.

When choosing personal protective equipment, ask your chemical suppliers if necessary. Personal protective equipment must bear the CE marking attesting to their compliance with applicable regulations.

Protection for hands:

Use protective gloves that guarantee total protection, PVC, neoprene or rubber (EN 374 1/2/3).

Gloves with protective factor 6 are recommended: permeation time > 480 min, thickness min 0.3 mm. (Ex: Natural Rubber - NR (0.5 mm); Polychloroprene - CR (0.5 mm); Nitrile - NBR (0.35 mm); Butyl Rubber (0.5 mm); FKM (0.4 mm) ; PVC (0.5 mm)).

Provide replacement of gloves if used with signs of wear, cracks or internal contamination.

Protection for skin:

Wear workwear with long sleeves and safety footwear for professional use of category I (Ref. 89/686 / EEC and EN ISO 20344). Wash with soap and water after removing protective clothing.

Eye protection:

Use safety goggles with anti-scratch protection EN166; Do not use eyeglasses.

Respiratory protection:

In case of exceeding the threshold value (eg TLV-TWA) of the substance or one or more of the substances present in the product, it is advisable to wear a B-type filter mask with the class (1, 2 or 3) Be chosen in relation to the limit of use concentration. (Standard EN 14387).

In the case of gases or vapors of different nature and / or gases or vapors with particles (aerosols, fumes, fogs, etc.), combustible filters should be provided. The use of respiratory protection means is necessary if the technical measures taken are not sufficient to limit the exposure of the worker to the threshold values taken into account. The protection offered by masks is, however, limited. If the substance considered to be odorless or its odor threshold is higher than its TLV-TWA and in case of emergency, wear an open-air compressed-air breathing apparatus (EN 137) or a breathing apparatus External air (standard EN 138). For the correct choice of respiratory protective device, refer to EN 529.



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Thermal Hazards:

None

Environmental exposure controls:

Emissions from production processes, including those from ventilation equipment, should be checked for compliance with environmental protection 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:	Colourless	--	--
Odour:	Characteristic	--	--
Odour threshold:	Not determined as not relevant for product characterisation	--	--
Melting point/freezing point:	Not determined as not relevant for product characterisation	--	--
Boiling point or initial boiling point and boiling range:	>75°C	--	--
Flammability:	Flammable	--	--
Lower and upper explosion limit:	Not explosive	--	--
Flash point:	<23°C	--	--
Auto-ignition temperature:	Not determined as not relevant for product characterisation	--	--
Decomposition temperature:	Not determined as not relevant for product characterisation	--	--
pH:	Not determined as not relevant for product characterisation	--	--
Kinematic viscosity:	Approx 1.1 mm ² /s a 20°C	--	--
Solubility in water:	Soluble	--	--
Solubility in oil:	Not determined as not relevant for product characterisation	--	--
Partition coefficient n-octanol/water (log value):	Not applicable	--	--
Vapour pressure:	Not determined as not relevant for product characterisation	--	--
Relative density:	Approx 0.9	--	--
Relative vapour density:	Not determined as not relevant for product characterisation	--	--
Particle characteristics:			
Particle size:	Not applicable	--	--

9.2. Other information

None

SECTION 10: Stability and reactivity

10.1. Reactivity

Not determined as considered not relevant for the characterization of the product.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

Forms explosive mixtures with air.

It can react violently with strong oxidants and strong acids; bases, strong peroxides; acetic anhydride, acetyl bromide, acetyl chloride, aliphatic amines, bromine pentafluoride, calcium oxide (quicklime), cesium oxide, chloryl perchlorate, disulfonyl difluoride, ethylene glycol methyl ether, iodine heptafluoride, isocyanates, nitrosyl perchlorate, perchlorate, platinum-based chlorinator black diplomat; potassium-tert-butoxide, potassium, potassium oxide, potassium peroxide, potassium superoxide; phosphorus (III) oxide, silver nitrate, silver oxide, sulfuric acid, oleum, sodium, sodium hydrazide, sodium peroxide, sulfinyl cyanamide, tetrachlorosilane, s-triazin-2,4,6-triol, triethoxyaluminium tribromide, triethylaluminium, uranium fluoride, xenon tetrafluoride.

The mixture with concentrated hydrogen peroxide forms powerful explosives. The mixture with mercury nitrate (II) forms explosive fulminated mercury. Forms explosive complexes with perchlorates, magnesium perchlorate (ethyl perchlorate form), silver perchlorate.

Reacts with hypochlorous acid or chlorine to form explosive and heat sensitive ethyl hypochlorite (which can decompose when cold).

10.4. Conditions to avoid

Avoid: flow or agitation of the substance can generate electrostatic charges due to low conductivity. Avoid heating, open flames and sparks. Avoid absence of ventilation.

10.5. Incompatible materials

Incompatible with: strong oxidants, perchlorates, peroxides, silver oxide, hydrogen peroxide, potassium, sodium, chlorine, permanganate or chromate in acid solutions, ruthenium oxide, uranium hexafluoride, iodine or bromine pentafluoride, chromyl chloride, heptafluoride iodine, bromide or acetyl chloride, disulfonyl difluoride, platinum, nitric acid, peroxides, calcium hypochlorite, chlorine oxides, silver nitrate, dipotassium dioxide, tetraphosphorus hexoxide, chromium trioxide, fluorine nitrate, strong oxidants.

10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological information of the product:

Not applicable

Toxicological information of the main substances found in the product:

Ethanol - CAS: 64-17-5

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 10470 mg/kg - Source: ECHA - Notes: OECD 401

Test: LC50 - Route: Inhalation Vapour - Species: Rat = 116.9 mg/l - Duration: 4h - Notes: OECD 403

Test: LD50 - Route: Cutaneous - Species: Rabbit = 17100 mg/kg

b) skin corrosion/irritation:

Test: Skin Irritant - Route: Cutaneous - Species: Rabbit Negative - Notes: OECD 404

c) serious eye damage/irritation:

Test: Eye Irritant - Route: ocular - Species: Rabbit Positive - Notes: OECD 405

d) respiratory or skin sensitisation:

Test: Skin Sensitization - Route: Cutaneous - Species: Guinea Pig Negative - Notes: OECD 406

Isopropanol - CAS: 67-63-0

a) acute toxicity:

Test: LC50 - Route: Oral - Species: Rat 5.84 g/kg - Duration: 14 days - Source: ECHA Database (Registration dossier) - Notes: OECD 401



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Test: LC50 - Route: dermal - Species: Rat 10000 ppm - Duration: 6h - Notes: OECD 403

Test: LC50 - Route: dermal - Species: Rabbit 16.4 ml/kg - Duration: 14 days - Notes: OECD 402

b) skin corrosion/irritation:

Test: irritation - Route: dermal - Species: Rabbit Positive - Duration: 4h

c) serious eye damage/irritation:

Test: irritation - Route: ocular - Species: Rabbit Positive - Duration: 14 days - Notes: OECD 405

d) respiratory or skin sensitisation:

Test: sensitization - Route: dermal - Species: Guinea Pig Negative - Duration: 96h - Notes: OECD 406

e) germ cell mutagenicity:

Test: Genotoxicity - Route: In vitro - Species: Salmonella Typhimurium Negative - Duration: 48h - Notes: OECD 471

Test: Chromosome aberration - Species: Mouse Negative - Notes: OECD 474

f) carcinogenicity:

Test: Carcinogenicity - Route: Inhalation Vapour - Species: Rat Negative - Notes: OECD 451

i) STOT-repeated exposure:

Test: NOAEL - Route: Inhalation Vapour - Species: Rat 5000 mg/l - Notes: OECD 431
1-Methoxy-2-propanol - CAS: 107-98-2

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 4016 mg/kg - Source: ECHA database - Notes: EU Method B.1 - Not classified

Test: LC50 - Route: Inhalation Vapour - Species: Rat > 7000 ppm - Notes: OECD 403 - Not classified

Test: LD50 - Route: dermal - Species: Rat > 2000 mg/kg - Notes: EU Method B.3 - Not classified

b) skin corrosion/irritation:

Test: Skin Irritant - Route: dermal - Species: Rabbit Negative - Notes: EU Method B.4 - Not irritating

c) serious eye damage/irritation:

Test: Eye Irritant - Route: ocular - Species: Rabbit Negative - Notes: EU Method B.5 - Not irritating

d) respiratory or skin sensitisation:

Test: Skin Sensitization - Route: dermal - Species: Guinea Pig Negative - Notes: EU Method B.6 - Not sensitising

f) carcinogenicity:

Test: NOEL - Route: Inhalation Vapour - Species: Mouse = 3000 ppm - Notes: OECD 453

g) reproductive toxicity:

Test: NOAEL - Route: Inhalation Vapour - Species: Rat = 1000 ppm - Notes: OECD 416

Ethyl acetate - CAS: 141-78-6

a) acute toxicity:

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

Test: LD50 - Route: Skin - Species: Rabbit > 20 ml/kg

Test: LC50 - Route: Inhalation > 100 g/m³

e) germ cell mutagenicity:

Test: Mutagenesis 9000 mg/l - Source: Cytogenetic analysis, fibroblast - Notes: hamster

If not differently specified, the information required in Regulation (EU)2020/878 listed below must be considered as N.A.:

a) acute toxicity;

- b) skin corrosion/irritation;
- c) serious eye damage/irritation;
- d) respiratory or skin sensitisation;
- e) germ cell mutagenicity;
- f) carcinogenicity;
- g) reproductive toxicity;
- h) STOT-single exposure;
- i) STOT-repeated exposure;
- j) aspiration hazard.

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Ethanol - CAS: 64-17-5

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish Freshwater = 14200 mg/l - Duration h: 96 - Notes: ECHA - US EPA method E03-05 - Pimephales promelas

Endpoint: LC50 - Species: Daphnia = 5012 mg/l - Duration h: 48 - Notes: ASTM E729-80 - Ceriodaphnia dubia

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia = 9.6 mg/l - Notes: 9 d - Daphnia magna

Isopropanol - CAS: 67-63-0

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Fish Freshwater = 9640 mg/l - Duration h: 96 - Notes: OECD 203 Pimephales promelas ECHA Database (Registration dossier)

Endpoint: LC50 - Species: Daphnia > 10000 mg/l - Duration h: 24 - Notes: OECD 202 Daphnia magna

Species: Algae = 1800 mg/l - Duration h: 7 - Notes: days Scenedesmus quadricauda

1-Methoxy-2-propanol - CAS: 107-98-2

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish Freshwater = 20800 mg/l - Duration h: 96 - Notes: ECHA database - ASTM Standard E729-80 - Pimephales promelas

Endpoint: LC50 - Species: Daphnia = 21100 mg/l - Duration h: 48 - Notes: Daphnia magna

Endpoint: EC50 - Species: Algae > 1000 mg/l - Notes: 7d - Pseudokirchnerella subcapitata

Ethyl acetate - CAS: 141-78-6

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 270-333 mg/l - Duration h: 48 - Notes: Leusiscus idus melanotus (fresh water)

Endpoint: LC50 - Species: Fish = 484 mg/l - Duration h: 96 - Notes: Oncorhynchus mykiss (fresh water)

Endpoint: EC50 - Species: Daphnia = 644.8 mg/l - Duration h: 24 - Notes: Artemia salina

Endpoint: EC50 - Species: Daphnia = 164 mg/l - Duration h: 48 - Notes: Daphnia Cucullata

Endpoint: EC50 - Species: Algae = 3300 mg/l - Duration h: 48 - Notes: Scenedesmus subspicatus

12.2. Persistence and degradability

Ethanol - CAS: 64-17-5

Biodegradability: Readily biodegradable - Test: Oxygen consumption - %: 84 - Notes: ECHA - 20 d



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- Isopropanol - CAS: 67-63-0
Biodegradability: Readily biodegradable - Test: Oxygen consumption - Duration: 5 d - %: 53 - Notes: ECHA database
- 1-Methoxy-2-propanol - CAS: 107-98-2
Biodegradability: Readily biodegradable - Test: Dissolved organic carbon - Duration: 28 d - %: 96 - Notes: ECHA - OECD 301 E
- 12.3. Bioaccumulative potential
Isopropanol - CAS: 67-63-0
Test: Kow - Partition coefficient 0.05
- 12.4. Mobility in soil
Not available
- 12.5. Results of PBT and vPvB assessment
vPvB Substances: None - PBT Substances: None
- 12.6. 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 / RID: 1987
IMDG: 1987
IATA: 1987
- 14.2. UN proper shipping name
ADR / RID: ALCOHOLS N.O.S. (ETHANOL, ISOPROPANOL)
IMDG: ALCOHOLS N.O.S. (ETHANOL, ISOPROPANOL)
IATA: ALCOHOLS N.O.S. (ETHANOL, ISOPROPANOL)
- 14.3. Transport hazard class(es)
ADR / RID: Class: 3 Label: 3
IMDG: Class: 3 Label: 3
IATA: Class: 3 Label: 3
- 14.4. Packing group
ADR / RID: II
IMDG: II
IATA: II
- 14.5. Environmental hazards
ADR / RID: NO
IMDG: NO
IATA: NO
- 14.6. Special precautions for user
ADR / RID: HIN - Kemler: 33 Limited Quantities: 1 L
Tunnel restriction code: (D/E)

Special provision: -
IMDG: EMS: F-E, S-D Limited Quantities: 1 L
IATA: Cargo: Maximum quantity: 60 L
Packaging instructions: 364

Pass.: Maximum quantity: 5 L
Packaging instructions: 353
A180

Special provision:
- 14.7. Maritime transport in bulk according to IMO instruments
Not applicable



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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. 453/2010 (Annex II)
 - 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:

None

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

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.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- H226 Flammable liquid and vapour.
- EUH066 Repeated exposure may cause skin dryness or cracking.

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
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3



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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
Eye Irrit. 2, H319	Calculation method
STOT SE 3, H336	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.

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.
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.