



Safety Data Sheet

SOCOSOLV 99/1

Safety Data Sheet date: 12/6/2023, version 1

1. Identification

GHS Product identifier

Mixture identification:

Trade name: SOCOSOLV 99/1

Other means of identification

SDS code: P24244

Recommended use and restrictions on use

Recommended use:

Solvent

Cleaner

Industrial uses

Restrictions on use:

No uses advised against are identified.

Supplier's details

Manufacturers:

Socomore SASU - Zone Industrielle du Prat - CS 23707 - 56037 VANNES CEDEX - France

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CHEMTEL: +1-813-248-0585 (International); 1-800-255-3924 (USA)

France : ORFILA (INRS) +33 (0)1 45 42 59 59

2. Hazard identification

Classification of the hazardous product

- ⚠ Danger, Flam. Liq. 2, Highly flammable liquid and vapour.
- ⚠ Warning, Skin Irrit. 2, Causes skin irritation.
- ⚠ Warning, Eye Irrit. 2A, Causes serious eye irritation.
- ⚠ Danger, Repr. 1B, May damage fertility or the unborn child.
- ⚠ Warning, STOT SE 3, May cause drowsiness or dizziness.
- ⚠ Warning, STOT RE 2, May cause damage to organs through prolonged or repeated exposure.
- ⚠ Danger, Asp. Tox. 1, May be fatal if swallowed and enters airways.
- ⚠ Aquatic Acute 3, Harmful to aquatic life.
- ⚠ Aquatic Chronic 2, Toxic to aquatic life with long lasting effects.

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GHS label elements, including precautionary statements

Hazard pictograms:



Danger

Hazard statements:

- H225 Highly flammable liquid and vapour.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H360 May damage fertility or the unborn child.
- H336 May cause drowsiness or dizziness.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H304 May be fatal if swallowed and enters airways.
- H402 Harmful to aquatic life.
- H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P240 Ground and bond container and receiving equipment.
- P241 Use explosion-proof [electrical/ventilating/lighting/...] equipment.
- P242 Use non-sparking tools.
- P243 Take action to prevent static discharges.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P264 Wash hands thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/clothing and eye/face protection.
- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
- P302+P352 IF ON SKIN: Wash with plenty of water/...
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P314 Get medical advice/attention if you feel unwell.
- P331 Do NOT induce vomiting.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P362+P364 Take off contaminated clothing and wash it before reuse.

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P370+P378.C In case of fire, use a CO2 fire extinguisher, foam to extinguish.

P391 Collect spillage.

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

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

P405 Store locked up.

P501 Dispose of contents/container in accordance with applicable regulations.

Special provisions

None

Other hazards

None

Ingredient(s) with unknown acute toxicity

None.

3. Composition/Information on ingredients

Substances


N.A.


Mixtures

Hazardous components within the meaning of WHMIS 2015 and related classification:


>= 45% - < 70% HYDROCARBONS, C7-C9, N-ALKANES, ISOALKANES, CYCLICS

REACH No.: 01-2119473851-33, EC: 920-750-0

 B.6/2 Flam. Liq. 2 H225

 A.2/2 Skin Irrit. 2 H315


 A.8/3 STOT SE 3 H336

 A.10/1 Asp. Tox. 1 H304

 CAN-HAE/C2 Aquatic Chronic 2 H411

>= 7% - < 13% 2-methoxy-1-methylethyl acetate


REACH No.: 01-2119475791-29, Index number: 607-195-00-7, CAS: 108-65-6, EC: 203-603-9


 B.6/3 Flam. Liq. 3 H226

 A.7/1B Repr. 1B H360

>= 7% - < 13% propan-2-ol

REACH No.: 01-2119457558-25, Index number: 603-117-00-0, CAS: 67-63-0, EC: 200-661-7

 B.6/2 Flam. Liq. 2 H225

 A.3/2A Eye Irrit. 2A H319


 A.8/3 STOT SE 3 H336

Specific Concentration Limits:

C >= 20%: STOT SE 3 H336

>=5% - < 10% n-butyl acetate

REACH No.: 01-2119485493-29, Index number: 607-025-00-1, CAS: 123-86-4, EC: 204-658-1

 B.6/3 Flam. Liq. 3 H226

 A.8/3 STOT SE 3 H336

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CAN-HAE/A3 Aquatic Acute 3 H402

>= 0.5% - < 1.5% n-hexane

Index number: 601-037-00-0, CAS: 110-54-3, EC: 203-777-6

- ⚠ B.6/2 Flam. Liq. 2 H225
- ⚠ A.10/1 Asp. Tox. 1 H304
- ⚠ A.2/2 Skin Irrit. 2 H315
- ⚠ A.8/3 STOT SE 3 H336
- ⚠ A.7/2 Repr. 2 H361
- ⚠ A.9/2 STOT RE 2 H373 (Inhalation)

>= 0.5% - < 1.5% cyclohexane

Index number: 601-017-00-1, CAS: 110-82-7, EC: 203-806-2

- ⚠ B.6/2 Flam. Liq. 2 H225
- ⚠ A.2/2 Skin Irrit. 2 H315
- ⚠ A.8/3 STOT SE 3 H336
- ⚠ A.10/1 Asp. Tox. 1 H304
- ⚠ CAN-HAE/A1 Aquatic Acute 1 H400 M=1.
- ⚠ CAN-HAE/C1 Aquatic Chronic 1 H410

Specific Concentration Limits:

C >= 20%: STOT SE 3 H336

The actual concentration of the components listed above is withheld as a trade secret.

4. First-aid measures

Description of necessary first-aid measures

In case of skin contact:

- Immediately take off all contaminated clothing.
- Remove contaminated clothing immediately and dispose of 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.
- Protect uninjured eye.

In case of Ingestion:

- Do NOT induce vomiting.

In case of Inhalation:

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

Most important symptoms/effects, acute and delayed

None

Indication of immediate medical attention and special treatment needed, if necessary

In case of accident or unwellness, seek medical advice immediately (show directions for use or

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safety data sheet if possible).

Treatment:

No particular treatment.

5. Fire-fighting measures

Suitable and unsuitable extinguishing media

Suitable extinguishing media:

In case of fire, use a CO2 fire extinguisher, foam to extinguish.

Unsuitable extinguishing media

None in particular.

Specific hazards arising from the hazardous product

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products:

None

Explosive properties: N.A.

Oxidizing properties: N.A.

Special protective equipment and precautions for fire-fighters

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.

6. Accidental release measures

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.

Methods and material for containment and cleaning up

Wash with plenty of water.

7. Handling and storage

Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Exercise the greatest care when handling or opening the container.

Do not use on extensive surface areas in premises where there are occupants.

Don't use empty container before they have been cleaned.

Before making transfer operations, ensure 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.

Conditions for safe storage, including any incompatibilities

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Always keep in a well ventilated place.

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

Avoid accumulating electrostatic charge.

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

Safety electric system.

Storage temperature:

Store at ambient temperature.

8. Exposure controls/personal protection

Control parameters

HYDROCARBONS, C7-C9, N-ALKANES, ISOALKANES, CYCLICS

- OEL Type: National - TWA: 1200 mg/m³, 260 ppm - Notes: ExxonMobil

- OEL Type: National - TWA: 1000 mg/m³ - STEL: 1500 mg/m³ - Notes: vapor, France

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

- OEL Type: ACGIH - TWA(8h): 150 ppm - STEL: 100 ppm

- OEL Type: National - TWA(8h): 275 mg/m³, 50 ppm - STEL: 550 mg/m³, 100 ppm -

Behaviour: Binding - Notes: France VLEPC

- OEL Type: National - TWA(8h): 270 mg/m³, 50 ppm - Notes: GERMANY

- OEL Type: National - TWA(8h): 274 mg/m³, 50 ppm - STEL: 548 mg/m³, 100 ppm -

Notes: UK (WELs)

- OEL Type: National - TWA: 260 mg/m³ - STEL: 520 mg/m³ - Notes: POLAND

- OEL Type: EU - TWA(8h): 275 mg/m³, 50 ppm - STEL: 550 mg/m³, 100 ppm - Notes:

Skin

- OEL Type: AIHA

- TWA: 50 ppm

- OEL Type: National - TWA: 275 mg/m³, 50 ppm - STEL(5 min (Mow)): 550 mg/m³, 100

ppm - Notes: Österreich

propan-2-ol - CAS: 67-63-0

- OEL Type: National - STEL: 980 mg/m³, 400 ppm - Notes: France

- OEL Type: National - TWA: 500 mg/m³, 200 ppm - Notes: DFG, Y - Germany

- OEL Type: National - TWA: 999 mg/m³, 400 ppm - STEL: 1250 mg/m³, 500 ppm -

Notes: United Kingdom

- OEL Type: ACGIH - TWA(8h): 200 ppm - STEL: 400 ppm - Notes: A4, BEI - Eye and

URT irr, CNS impair

- OEL Type: National - TWA: 999 mg/m³, 400 ppm - STEL: 1250 mg/m³, 500 ppm

- OEL Type: OSHA PEL - TWA: 980 mg/m³, 400 ppm

- OEL Type: NIOSH REL - TWA: 980 mg/m³, 400 ppm - STEL: 1225 mg/m³, 500 ppm

- OEL Type: National - TWA: 500 mg/m³, 200 ppm - STEL(30min (Miw)): 1960 mg/m³,

800 ppm - Notes: Österreich

n-butyl acetate - CAS: 123-86-4

- OEL Type: National - TWA: 241 mg/m³, 50 ppm - STEL: 723 mg/m³, 150 ppm -

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Behaviour: Binding - Notes: France, VLEPC

- OEL Type: National - TWA: 150 ppm - STEL: 200 ppm - Notes: United Kingdom
- OEL Type: National - TWA(8h): 300 mg/m³, 62 ppm - Notes: Germany
- OEL Type: ACGIH - TWA(8h): 50 ppm - STEL: 150 ppm - Notes: Eye and URT irr
- OEL Type: National - TWA(8h): 238 mg/m³, 50 ppm - STEL: 712 mg/m³, 150 ppm - Notes: BELGIQUE
- OEL Type: National - TWA(8h): 480 mg/m³, 99 ppm - Notes: PAYS-BAS
- OEL Type: National - TWA: 480 mg/m³, 100 ppm - STEL(Mow): 480 mg/m³, 100 ppm - Notes: Österreich
- OEL Type: EU - TWA(8h): 241 mg/m³, 50 ppm - STEL: 723 mg/m³, 150 ppm

n-hexane - CAS: 110-54-3

- OEL Type: National - TWA(8h): 72 mg/m³, 20 ppm - Notes: France VLEC - Note R3 - INRS TMP N° 59, 84
- OEL Type: National - TWA(8h): 180 mg/m³, 50 ppm - Notes: Germany
- OEL Type: EU - TWA(8h): 72 mg/m³, 20 ppm
- OEL Type: ACGIH - TWA(8h): 50 ppm - Notes: Skin, BEI - CNS impair, peripheral neuropathy, eye irr
- OEL Type: National - TWA: 72 mg/m³, 20 ppm - STEL(15min (Miw)): 288 mg/m³, 80 ppm - Notes: Österreich
- OEL Type: National - TWA(8h): 72 mg/m³, 20 ppm - Notes: UK

cyclohexane - CAS: 110-82-7

- OEL Type: National - TWA(8h): 700 mg/m³, 200 ppm - Notes: Germany
- OEL Type: National - TWA(8h): 700 mg/m³, 200 ppm - STEL: 1300 mg/m³, 375 ppm - Notes: France VLEC - INRS TMP N° 84
- OEL Type: EU - TWA(8h): 700 mg/m³, 200 ppm
- OEL Type: ACGIH - TWA(8h): 100 ppm - Notes: CNS impair
- OEL Type: National - TWA(8h): 700 mg/m³, 200 ppm - STEL(15'): 2800 mg/m³, 800 ppm - Notes: Österreich
- OEL Type: National - TWA(8h): 200 ppm - Notes: Cyprus
- OEL Type: National - TWA(8h): 700 mg/m³ - STEL: 2000 mg/m³ - Notes: Czech Republic
- OEL Type: National - TWA: 50 ppm - Notes: Denmark
- OEL Type: National - TWA(8h): 350 mg/m³, 100 ppm - STEL(15'): 1050 mg/m³, 300 ppm - Notes: United Kingdom

DNEL Exposure Limit Values

HYDROCARBONS, C7-C9, N-ALKANES, ISOALKANES, CYCLICS

Worker Industry: 773 mg/kg b.w./day - Consumer: 699 mg/kg b.w./day - Exposure: Human Dermal - Frequency: Short Term, systemic effects

Worker Industry: 2035 mg/m³ - Consumer: 608 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Consumer: 699 mg/kg b.w./day - Exposure: Human Oral - Frequency: Short Term, systemic effects

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

Worker Industry: 796 mg/kg b.w./day - Consumer: 320 mg/kg b.w./day - Exposure: Human Dermal - Frequency: Long Term, systemic effects

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Worker Industry: 275 mg/m³ - Consumer: 33 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 36 mg/kg b.w./day - Exposure: Human Oral - Frequency: Long Term, systemic effects

Worker Industry: 550 mg/m³ - Consumer: 33 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects

propan-2-ol - CAS: 67-63-0

Worker Industry: 888 mg/kg - Consumer: 319 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 500 mg/kg - Consumer: 89 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 26 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

n-butyl acetate - CAS: 123-86-4

Worker Industry: 11 mg/kg - Consumer: 6 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 300 mg/m³ - Consumer: 35.7 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 2 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Worker Industry: 600 mg/m³ - Consumer: 300 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Industry: 11 mg/kg - Consumer: 2 mg/kg - Exposure: Human Oral - Frequency: Short Term, systemic effects

Worker Industry: 600 mg/m³ - Consumer: 300 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Industry: 300 mg/m³ - Consumer: 35.7 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects

Worker Industry: 11 mg/kg - Consumer: 6 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects

n-hexane - CAS: 110-54-3

Worker Industry: 773 mg/kg b.w./day

Worker Industry: 2035 mg/m³

PNEC Exposure Limit Values

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

Target: Fresh Water - Value: 0.635 mg/l

Target: Marine water - Value: 0.0635 mg/l

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

Target: Freshwater sediments - Value: 3.29 mg/kg dw

Target: Marine water sediments - Value: 0.329 mg/kg dw

Target: Soil - Value: 0.29 mg/kg

Target: PNEC intermittent - Value: 6.35 mg/l

propan-2-ol - CAS: 67-63-0

Target: Fresh Water - Value: 140.9 mg/l

Target: Marine water - Value: 140.9 mg/l

Target: Freshwater sediments - Value: 552 mg/kg

Target: Marine water sediments - Value: 552 mg/kg

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Target: Soil (agricultural) - Value: 28 mg/kg
 Target: Microorganisms in sewage treatments - Value: 2251 mg/l
 Target: Water (intermittent discharge) - Value: 140.9 mg/l
 Target: Oral (secondary poisoning) (foodstuff) - Value: 160 mg/kg
 n-butyl acetate - CAS: 123-86-4
 Target: Fresh Water - Value: 0.18 mg/l
 Target: Marine water - Value: 0.018 mg/l
 Target: Freshwater sediments - Value: 0.981 mg/kg
 Target: Water (intermittent discharge) - Value: 0.36 mg/l
 Target: Marine water sediments - Value: 0.0981 mg/kg
 Target: Soil - Value: 0.0903 mg/kg
 Target: Microorganisms in sewage treatments - Value: 35.6 mg/l

Biological Exposure Index

n-hexane - CAS: 110-54-3

Value: 5 mg/g - medium: Urinary creatinine - Biological Indicator: 2,5-hexanedione in the urine - Sampling Period: End of turn - Source: IBE

Appropriate engineering controls

None

Individual protection measures, such as personal protective equipment (PPE)

Eye protection:

Safety goggles (EN 166)

Protection for skin:

Chemical protection clothing.

Protection for hands:

Suitable gloves type: NF EN374

NBR (nitrile rubber).

PVA (Polyvinyl alcohol).

Respiratory protection:

Use adequate protective respiratory equipment.

Mask with filter "A1" , brown colour (NF EN14387)

Thermal Hazards:

None

9. Physical and chemical properties

Properties	Value	Method:	Notes
Physical state:	Liquid	--	--
Colour:	Translucent	--	--
Odour:	N.A.	--	--
Odour threshold:	N.A.	--	--

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pH:	N.A.	--	--
Melting point / freezing point:	Not Relevant	--	--
Initial boiling point and boiling range:	82 °C	NF T67-101	--
Flash Point (°F):	32 °F	--	--
Flash point (°C):	0 °C	NF EN 2719	--
Evaporation rate:	N.A.	--	--
Solid/gas flammability:	N.A.	--	liquid
Upper/lower flammability or explosive limits:	0.9-7%	--	--
Vapour pressure:	13,9 mmHg (20 °C)	--	--
Vapour density:	3.7	--	--
Relative density:	0.77	ISO 649, ASTM D1298	--
Solubility in water:	N.A.	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient (n-octanol/water):	N.A.	--	--
Auto-ignition temperature:	287 °C	--	--
Decomposition temperature:	N.A.	--	--
Viscosity:	< 7 mm ² /s (40 °C)	--	--
Explosive properties:	N.A.	--	--
Oxidizing properties:	N.A.	--	--

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9.2. Other information

Properties	Value	Method:	Notes
Miscibility:	N.A.	--	--
Fat Solubility:	N.A.	--	--
Conductivity:	N.A.	--	--
Substance Groups relevant properties	N.A.	--	--

10. Stability and reactivity

Reactivity

It may generate dangerous reactions (See subsections below)

Chemical stability

It may generate dangerous reactions (See subsections below)

Possibility of hazardous reactions

None

Conditions to avoid

Avoid accumulating electrostatic charge.

Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

Hazardous decomposition products

None.

11. Toxicological information

Information on toxicological effects

Toxicological information of the product:

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Acute toxicity

Not classified

Based on available data, the classification criteria are not met

Skin corrosion/irritation

The product is classified: Skin Irrit. 2 H315

Serious eye damage/irritation

The product is classified: Eye Irrit. 2A H319

Respiratory or skin sensitisation

Not classified

Based on available data, the classification criteria are not met

Germ cell mutagenicity

Not classified

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Based on available data, the classification criteria are not met

Carcinogenicity

Not classified

Based on available data, the classification criteria are not met

Reproductive toxicity

The product is classified: Repr. 1B H360

STOT-single exposure

The product is classified: STOT SE 3 H336

STOT-repeated exposure

The product is classified: STOT RE 2 H373

Aspiration hazard

The product is classified: Asp. Tox. 1 H304

Toxicological information of the main substances found in the product:

HYDROCARBONS, C7-C9, N-ALKANES, ISOALKANES, CYCLICS

Acute toxicity:

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

Test: LD50 - Route: Skin - Species: Rabbit > 2800 mg/kg - Notes: 24h

Test: LC50 - Route: Inhalation Vapour - Species: Rat > 23300 mg/m³ - Duration: 4h

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

Acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg - Source: OECD 401

Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg - Source: OECD 402

Test: LC50 - Route: Inhalation - Species: Rat > 10.8 mg/l

Test: LC50 - Route: Skin - Species: Rabbit > 5000 mg/kg - Source: OECD 402

Test: LC0 - Route: Inhalation Vapour - Species: Rabbit = 23.5 mg/l - Source: OECD 403

Test: ATE - Route: Oral > 5000 mg/kg

Test: ATE - Route: Inhalation Vapour > 23.5 mg/l - Duration: 6 hours

Test: ATE - Route: Skin > 5000 mg/kg

propan-2-ol - CAS: 67-63-0

Acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 4570 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat = 20 mg/l - Duration: 8h

Test: LC50 - Route: Inhalation Vapour - Species: Rat > 25000 mg/m³ - Duration: 6 hours

Test: LD50 - Route: Skin - Species: Rabbit = 12.800 mg/kg

Reproductive toxicity:

Test: NOAEL - Route: Oral - Species: Rat = 500 mg/kg

STOT-repeated exposure:

Test: NOAEL - Route: Inhalation - Species: Rat = 1.3 mg/l

Test: NOAEL - Route: Inhalation Vapour - Species: Rat (Male, female) = 12.5 mg/l

n-butyl acetate - CAS: 123-86-4

Acute toxicity:

Test: LD50 - Route: Skin - Species: Rabbit > 14000 mg/kg

Test: LD50 - Route: Oral - Species: Rat = 10736 mg/kg

Test: LC50 - Route: Inhalation Dust - Species: Rat = 23.4 mg/l - Duration: 4h

Test: LC50 - Route: Inhalation Mist - Species: Rat = 23.4 mg/l - Duration: 4h

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Test: LC50 - Route: Inhalation (aerosol) - Species: Rabbit (male, female) = 0.74 mg/l - Duration: 4h - Source: OECD 403

Test: LC50 - Route: Inhalation Vapour - Species: Rat > 21.1 mg/l - Duration: 4h - Source: OECD 403

Test: LC0 - Route: Inhalation Vapour - Species: Rat > 38.32 mg/l - Duration: 6 hours

Reproductive toxicity:

Test: LOAEC - Route: Inhalation Vapour - Species: Rat = 1500 ppm - Source: OECD 414

Test: NOAEC - Route: Inhalation Vapour - Species: mouse (Male, female) = 2000 ppm - Duration: 90 Jours - Source: OECD 416

STOT-repeated exposure:

Test: NOAEC - Route: Inhalation - Species: Rat (Male, female) = 500 ppm - Duration: 13 weeks - Source: EPA OTS 798.2450

Test: NOAEL - Route: Oral - Species: Rat (Male, female) = 125 mg/kg bw/day - Duration: 13 weeks

Test: LOAEL

- Route: Oral - Species: mouse (Male, female) = 500 mg/kg bw/day - Duration: 13 days

n-hexane - CAS: 110-54-3

Acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat > 23.3 mg/l - Duration: 4h

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

Test: LD50 - Route: Skin - Species: Rabbit > 2800 mg/kg

cyclohexane - CAS: 110-82-7

Acute toxicity:

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

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

Test: LC50 - Route: Inhalation Vapour - Species: Rat > 19.1 mg/l - Duration: 4h

Substance(s) listed on the NTP report on Carcinogens:

None.

Substance(s) listed on the IARC Monographs:

propan-2-ol; isopropyl alcohol; isopropanol - Group 3.

Substance(s) listed as OSHA Carcinogen(s):

None.

Substance(s) listed as NIOSH Carcinogen(s):

None.

12. Ecological information**Ecotoxicity**

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

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The product is classified: Aquatic Acute 3 - H402; Aquatic Chronic 2 - H411

HYDROCARBONS, C7-C9, N-ALKANES, ISOALKANES, CYCLICS

a) Aquatic acute toxicity:

Endpoint: EL50

- Species: Algae > 10 mg/l - Duration h: 72 - Notes: Pseudokirchneriella subcapitata

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Endpoint: EL50

- Species: Daphnia > 4.6 mg/l - Duration h: 48

Endpoint: LL50

- Species: Fish > 3 mg/l - Duration h: 96 - Notes: Oncorhynchus mykiss

Endpoint: DSEO-R (NOELR) - Species: Algae = 6.3 mg/l - Duration h: 72 - Notes:
(Pseudokirchneriella subcapitata - biomass - OECD 201)

b) Aquatic chronic toxicity:

Endpoint: DSEO-R (NOELR) - Species: Daphnia = 1 mg/l - Duration h: 504 - Notes: OECD 211

Endpoint: DSEO-R (NOELR) - Species: Fish = 0.57 mg/l - Duration h: 672 - Notes:
Oncorhynchus mykiss -QSAR Petrotox

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Aquatic plants > 1000 mg/l - Duration h: 72 - Notes:
Selenastrum capricornutum, OECD 201

Endpoint: LC50 - Species: Fish = 134 mg/l - Duration h: 96 - Notes: Oncorhynchus mykiss,
OECD 203

Endpoint: EC50 - Species: Invertebrates > 500 mg/l - Duration h: 48 - Notes: Daphnia
magna

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish = 47.5 mg/l - Duration h: 336 - Notes: Oryzias latipes,
OECD 204

Endpoint: NOEC - Species: Invertebrates > 100 mg/l - Duration h: 504 - Notes: Daphnia
magna, OECD 202

propan-2-ol - CAS: 67-63-0

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 100 mg/l - Duration h: 48 - Notes: Leuciscus melanotus

Endpoint: LC50 - Species: Fish = 9640 mg/l - Duration h: 96 - Notes: Pimephales promelas

Endpoint: LC50 - Species: Daphnia > 10.000 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae > 100 mg/l - Duration h: 72 - Notes: Scenedesmus
subspicatus

Endpoint: EC50 - Species: Daphnia > 100 mg/l - Duration h: 48

Endpoint: NOAEC - Species: Algae = 1800 mg/l - Duration h: 84 - Notes: Algues vertes /
Green algae

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia = 100 mg/l - Duration h: 72 - Notes:
Pseudokirchneriella subcapitata

c) Bacteria toxicity:

Species: bacteria = 1.050 mg/l

n-butyl acetate - CAS: 123-86-4

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Algae = 647.7 mg/l - Duration h: 72 - Notes: Desmodesmus
subspicatus

Endpoint: NOEC - Species: Algae = 200 mg/l - Notes: Desmodesmus subspicatus

Endpoint: EC50 - Species: Aquatic plants = 397 mg/l - Duration h: 72 - Notes: DIN 38412

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Part. 9, *Pseudokirchneriella subcapitata*

Endpoint: LC50 - Species: Fish = 18 mg/l - Duration h: 96 - Notes: OECD 203, *Pimephales promelas*

Endpoint: EC50 - Species: bacteria = 356 mg/l - Duration h: 40 - Notes: *Tetrahymena pyriformis*

Endpoint: EC50 - Species: *Daphnia* = 44 mg/l - Duration h: 48 - Notes: OECD 202

Endpoint: ErC50 - Species: Aquatic plants = 397 mg/l - Duration h: 72 - Notes: OECD 201, *Pseudokirchneriella subcapitata*

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: *Daphnia* = 23 mg/l - Duration h: 504 - Notes: OCDE 211

Endpoint: NOEC - Species: Aquatic plants = 196 mg/l - Duration h: 72 - Notes: OECD 201, *Pseudokirchneriella subcapitata*

Endpoint: IC50 - Species: bacteria = 356 mg/l - Duration h: 40 - Notes: TETRATOX assay, *Tetrahymena pyriformis*

d) Terrestrial toxicity:

Endpoint: EC50 > 1000 mg/kg - Duration h: 336 - Notes: *Lactuca sativa*

n-hexane - CAS: 110-54-3

a) Aquatic acute toxicity:

Endpoint: EL50

- Species: *Daphnia* = 3 mg/l

Endpoint: EL50

- Species: Algae > 10 mg/l - Notes: *Pseudokirchneriella subcapitata*

Endpoint: LL50

- Species: Fish > 13.4 mg/l - Notes: *Oncorhynchus mykiss*

Endpoint: DSEO-R (NOELR) - Species: Algae = 10 mg/l - Duration h: 72 - Notes: *Pseudokirchneriella subcapitata*

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: *Daphnia* = 0.17 mg/l - Duration h: 504

Endpoint: LOEC

- Species: *Daphnia* = 0.32 mg/l - Duration h: 504

cyclohexane - CAS: 110-82-7

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Aquatic invertebrates > 10 mg/l - Notes: *Daphnia magna*

Endpoint: EC50 - Species: Aquatic invertebrates < 100 mg/l - Notes: *Daphnia magna*

Endpoint: EL50

- Species: *Daphnia* = 3 mg/l - Duration h: 48 - Notes: *Daphnia magna*

Endpoint: LC50 - Species: Fish = 4.5 mg/l - Duration h: 48 - Notes: Fathead Minnow

Endpoint: LL50

- Species: Fish > 13.4 mg/l - Duration h: 96 - Notes: *Oncorhynchus mykiss*

Endpoint: EL50

- Species: Algae > 10 mg/l - Duration h: 72 - Notes: *Pseudokirchneriella subcapitata*

Endpoint: EC50 - Species: Aquatic plants = 9.317 mg/kg/d - Duration h: 36 - Notes: *Selenastrum capricornutum*

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Endpoint: DSEO-R (NOELR) - Species: Algae = 10 mg/l - Duration h: 72 - Notes:
Pseudokirchneriella subcapitata

b) Aquatic chronic toxicity:

Endpoint: EL50

- Species: Aquatic invertebrates = 1.6 mg/l - Duration h: 504 - Notes: Daphnia magna

Endpoint: LOEC

- Species: Aquatic invertebrates = 0.32 mg/l - Duration h: 504 - Notes: Daphnia magna

Endpoint: NOEC - Species: Aquatic invertebrates = 0.17 mg/l - Duration h: 504 - Notes:

Daphnia magna

Endpoint: DSEO-R (NOELR) - Species: Daphnia = 1 mg/l - Duration h: 504 - Notes:

Daphnia magna

Persistence and degradability

HYDROCARBONS, C7-C9, N-ALKANES, ISOALKANES, CYCLICS

Biodegradability: Readily biodegradable - Duration: 28 days - %: 98

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

Biodegradability: Biological oxygen demand (BOD) - Test: OECD 301F - Duration: 28 days

- %: 83% - Notes: ISO 9408; 92/69/CEE, C.4-D

propan-2-ol - CAS: 67-63-0

Biodegradability: Readily biodegradable - Duration: 5 days - %: 53 - Notes: Aerobic, activated sludge

Biodegradability: Oxidizes rapidly by photochemical reactions in air.

Biodegradability: Photodegradation (in air) - overall half-life time - Test: Degradation by OH radicals: Direct photolysis - Duration: 33 hours

n-butyl acetate - CAS: 123-86-4

Biodegradability: Biodegradability rate - Test: OECD 301D - Duration: 5 days - %: 83% -

Notes: CEE 92/69, C.4-E

n-hexane - CAS: 110-54-3

Biodegradability: Biodegradability rate - Duration: 28 days - %: 98

cyclohexane - CAS: 110-82-7

Biodegradability: Biodegradability rate - Duration: 28 days - %: 9

Biodegradability: Manometer Breathing - Duration: 28 days - %: 77

Bioaccumulative potential

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

BCF < 100

Log Pow < 3

propan-2-ol - CAS: 67-63-0

Estimated not significantly bioaccumulative.

Log Pow <=4

Log Kow 0.05 - Notes: 25°C

n-butyl acetate - CAS: 123-86-4

BCF 15.3

Log Kow 2.3 - Notes: 25 °C

cyclohexane - CAS: 110-82-7

Log Kow 3.44

Mobility in soil

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n-butyl acetate - CAS: 123-86-4

Log Koc 1.268

Volality (H: Henry's Law Constant) 28.5 Pa.m³/mol - Notes: 25 °C

Other adverse effects

Deutsche Verordnung zur Klassifizierung der Wasserfahrdung (WGK) : WGK2

13. Disposal considerations

Safe handling and methods for disposal

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.

14. Transport information



UN number

TDG number:	UN1993
ADR-UN Number:	1993
DOT number:	UN1993
IATA-UN Number:	1993
IMDG-UN Number:	1993

UN proper shipping name

TDG-Shipping Name:	FLAMMABLE LIQUID, N.O.S. (propan-2-ol; isopropyl alcohol; isopropanol, HYDROCARBONS, C7-C9, N-ALKANES, ISOALKANES, CYCLICS)
ADR-Shipping Name:	FLAMMABLE LIQUID, N.O.S. (propan-2-ol; isopropyl alcohol; isopropanol, HYDROCARBONS, C7-C9, N-ALKANES, ISOALKANES, CYCLICS)
DOT-Shipping Name:	Flammable liquids, n.o.s.(HYDROCARBONS, C7-C9, N-ALKANES, ISOALKANES, CYCLICS, 2-methoxy-1-methylethyl acetate)
IATA-Shipping Name:	FLAMMABLE LIQUID, N.O.S. (propan-2-ol; isopropyl alcohol; isopropanol, HYDROCARBONS, C7-C9, N-ALKANES, ISOALKANES, CYCLICS)
IMDG-Shipping Name:	FLAMMABLE LIQUID, N.O.S. (propan-2-ol; isopropyl alcohol; isopropanol, HYDROCARBONS, C7-C9, N-ALKANES, ISOALKANES, CYCLICS)

Transport hazard class(es)

TDG Class:	3
ADR-Class:	3
DOT Hazard Class:	3
ADR - Hazard identification number:	33
IATA-Class:	3
IATA-Label:	3

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IMDG-Class:	3
Packing group	
TDG Packing group:	III
ADR-Packing Group:	II
DOT Packing group:	II
IATA-Packing group:	II
IMDG-Packing group:	II
Environmental hazards	
ADR-Environmental Pollutant:	Yes
IMDG-Marine pollutant:	Yes
Most important toxic component:	HYDROCARBONS, C7-C9, N-ALKANES, ISOALKANES, CYCLICS
Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)	
N.A.	
Special precautions in connection with transport or conveyance	
TDG Special provisions:	16,150
DOT Special provisions:	IB2, T7, TP1, TP8, TP28
DOT Labels:	3
ADR-Subsidiary hazards:	-
ADR-S.P.:	274 601 640C
ADR-Transport category (Tunnel restriction code):	2 (D/E)
IATA-Passenger Aircraft:	353
IATA-Subsidiary hazards:	-
IATA-Cargo Aircraft:	364
IATA-S.P.:	A3
IATA-ERG:	3H
IMDG-EmS:	F-E , S-E
IMDG-Subsidiary hazards:	-
IMDG-Stowage and handling:	Category B
IMDG-Segregation:	-

15. Regulatory information

Safety, health and environmental regulations specific for the product in question.

This Safety Data Sheet has been prepared according to the Hazardous Products Regulations (HPR) - WHMIS 2015.

NPRI - National Pollutant Release Inventory

Substance(s) listed under NPRI:

None.

DSL/NDSL Inventories (Canada):

All the substances of this product are listed on the DSL list.

No component of this product is listed on the NDSL list.

TSCA inventory

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All the components are listed on the TSCA inventory.

TSCA sections for substances listed in section 3:

2-methoxy-1-methylethyl acetate is listed in TSCA Section 8d HSDR, Section 8b, Section 8a - PAIR

propan-2-ol; isopropyl alcohol; isopropanol is listed in TSCA Section 8d HSDR, Section 8b

n-butyl acetate is listed in TSCA Section 8b

n-hexane is listed in TSCA Section 8b

cyclohexane is listed in TSCA Section 8d HSDR, Section 8b.

USA - Federal regulations

SARA - Superfund Amendments and Reauthorization Act

Section 302 Extremely Hazardous Substances: no substances listed.

Section 304 Hazardous substances: n-butyl acetate, n-hexane, cyclohexane.

Section 313 Toxic chemical list: propan-2-ol; isopropyl alcohol; isopropanol, n-hexane, cyclohexane.

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

Substance(s) listed under CERCLA: n-butyl acetate - Reportable quantity: 5000 pounds

n-hexane - Reportable quantity: 5000 pounds

cyclohexane - Reportable quantity: 1000 pounds.

Reportable quantity for mixture: 55555.55556 pounds.

CAA - Clean Air Act

CAA listed substances:

propan-2-ol; isopropyl alcohol; isopropanol is listed in CAA Section 111

n-butyl acetate is listed in CAA Section 111

n-hexane is listed in CAA Section 111, Section 112(b) - HAP, Section 112(b) - HON

cyclohexane is listed in CAA Section 111, Section 112(b) - HON.

CWA - Clean Water Act

CWA listed substances:

propan-2-ol; isopropyl alcohol; isopropanol is listed in CWA Section 304

n-butyl acetate is listed in CWA Section 304, Section 311

n-hexane is listed in CWA Section 304

cyclohexane is listed in CWA Section 311.

USA - State specific regulations

California Proposition 65

Substance(s) listed under California Proposition 65:

n-hexane - Listed as reproductive toxicant.

Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:

propan-2-ol; isopropyl alcohol; isopropanol

n-butyl acetate

n-hexane

cyclohexane.

New Jersey Right to know

Substance(s) listed under New Jersey Right to know:

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propan-2-ol; isopropyl alcohol; isopropanol
n-butyl acetate
n-hexane
cyclohexane.

Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:
propan-2-ol; isopropyl alcohol; isopropanol
n-butyl acetate
n-hexane
cyclohexane.

16. Other information

Full text of phrases referred to in Section 3:

H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
H304 May be fatal if swallowed and enters airways.
H411 Toxic to aquatic life with long lasting effects.
H226 Flammable liquid and vapour.
H360 May damage fertility or the unborn child.
H319 Causes serious eye irritation.
H402 Harmful to aquatic life.
H361 Suspected of damaging fertility or the unborn child.
H373 (Inhalation) May cause damage to organs through prolonged or repeated exposure if inhaled.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Safety Data Sheet date: 12/6/2023, version 1

Disclaimer:

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. The information relates only to the specific material and may not be valid for such material used in combination with any other material or in any process.

This Safety Data Sheet 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.
GHS: Globally Harmonized System of Classification and Labeling of

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	Chemicals.
HMIS:	Hazardous Materials Identification System
IARC:	International Agency for Research on Cancer
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.
NFPA:	National Fire Protection Association
NIOSH:	National Institute for Occupational Safety and Health
NTP:	National Toxicology Program
OSHA:	Occupational Safety and Health Administration
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