

Safety Data Sheet (HazCom 2012)
HYSO 99**Safety Data Sheet date: 7/31/2024, version 2****1. IDENTIFICATION****Product identifier**

Mixture identification:

Trade name: HYSO 99

Other means of identification:

SDS code: P20000EU

Recommended use of the chemical and restrictions on use

Recommended use:

Solvent

Cleaner

Industrial uses

Restrictions on use:

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party**Manufacturers:**

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

-Tel. +33 (0)2 97 43 76 90

Manufacturing - Parc Gohelis - 56250 ELVEN France - Tel +33 (0)2 97 43 76 83 - Fax +33 (0)2 97 54 50 26

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Competent person responsible for the safety data sheet:

msdsinformation-eu@socomore.com

Emergency phone number:

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

2. HAZARD(S) IDENTIFICATION**Classification of the chemical**

- ⚠ Danger, Flam. Liq. 2, Highly flammable liquid and vapour.
- ⚠ Warning, Repr. 2, Suspected of damaging 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.

Label elements

Hazard pictograms:

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Danger

Hazard statements:

- H225 Highly flammable liquid and vapour.
- H361 Suspected of damaging 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/sparks/open flames/hot surfaces. - No smoking.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P260 Do not breathe vapours.
- P271 Use only outdoors or in a well-ventilated area.
- P273 Avoid release to the environment.
- P280 Wear protective gloves and eye/face protection.
- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
- 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.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P312 Call a POISON CENTER/doctor/... if you feel unwell.
- P314 Get medical advice/attention if you feel unwell.
- P331 Do NOT induce vomiting.
- P370+P378 In case of fire, use a CO2 fire extinguisher 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

Hazards not otherwise classified identified during the classification process:

None

Ingredient(s) with unknown acute toxicity:

None.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

N.A.

Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

>= 90% HYDROCARBONS, C7-C9, N-ALKANES, ISOALKANES, CYCLICS

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

- ⊠ B.6/2 Flam. Liq. 2 H225
- ⊠ A.10/1 Asp. Tox. 1 H304
- ⚠ A.8/3 STOT SE 3 H336
- ⊠ US-HAE/C2 Aquatic Chronic 2 H411

>= 1% - < 3% 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

>= 1% - < 3% cyclohexane

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

- ⊠ 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
- ⊠ US-HAE/A1 Aquatic Acute 1 H400
- ⊠ US-HAE/C1 Aquatic Chronic 1 H410

>= 1% - < 3% n-hexane

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

- ⊠ B.6/2 Flam. Liq. 2 H225
- ⊠ A.7/2 Repr. 2 H361
- ⊠ A.10/1 Asp. Tox. 1 H304
- ⊠ A.9/2 STOT RE 2 H373
- ⚠ A.2/2 Skin Irrit. 2 H315
- ⚠ A.8/3 STOT SE 3 H336
- ⊠ US-HAE/C2 Aquatic Chronic 2 H411

4. FIRST-AID MEASURES

Description of necessary measures

In case of skin contact:

Immediately take off all contaminated clothing.

Remove contaminated clothing immediately and dispose of safely.

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In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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

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

Treatment:

No particular treatment.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

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

Unsuitable extinguishing media

None in particular.

Specific hazards arising from the chemical

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 materials 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

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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

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
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

- OEL Type: National - TWA: 900 mg/m³ - STEL: 1200 mg/m³ - Notes: Poland (Dz.U.
2018 pos. 1286)

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

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- 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

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

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

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-hexane - CAS: 110-54-3

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

Worker Industry: 2035 mg/m³

PNEC Exposure Limit Values

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

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

Biological Exposure Index

n-hexane - CAS: 110-54-3

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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

Eye protection:

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

Safety goggles (EN 166)

Protection for skin:

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

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:	Colourless	--	--
Odour:	N.A.	--	--
Odour threshold:	N.A.	--	--
pH:	N.A.	--	--
Melting point / freezing point:	Not Relevant	--	--
Initial boiling point and boiling range:	82 °C	NF T67-101	--
Flash Point (°F):	19.4°F	--	--
Flash point (°C):	-7 °C	NF EN 2719	--
Evaporation rate:	N.A.	--	--

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Solid/gas flammability:	N.A.	--	--
Upper/lower flammability or explosive limits:	N.A.	--	liquid
Vapour pressure:	11.9 mmHg (20°C)	--	--
Vapour density:	3.9	--	--
Relative density:	0.733	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.	--	--

9.2. Other information

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

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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

Not classified

Based on available data, the classification criteria are not met

Serious eye damage/irritation

Not classified

Based on available data, the classification criteria are not met

Respiratory or skin sensitisation

Not classified

Based on available data, the classification criteria are not met

Germ cell mutagenicity

Not classified

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. 2 H361

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

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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

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

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

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

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

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

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

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

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- 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

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

Persistence and degradability

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

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

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

cyclohexane - CAS: 110-82-7

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

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

n-hexane - CAS: 110-54-3

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

Bioaccumulative potential

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

Estimated not significantly bioaccumulative.

Log Pow <=4

Log Kow 0.05 - Notes: 25°C

cyclohexane - CAS: 110-82-7

Log Kow 3.44

Mobility in soil

N.A.

Other adverse effects

No harmful effects expected.

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13. DISPOSAL CONSIDERATIONS

Waste treatment and disposal 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.

14. TRANSPORT INFORMATION



UN number

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

UN proper shipping name

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

Transport hazard class(es)

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

Packing group

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)

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N.A.

Special precautions

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: -

Q.L.: 1L

Q.E.: E2

15. REGULATORY INFORMATION**USA - Federal regulations**

TSCA - Toxic Substances Control Act

TSCA inventory: all the components are listed on the TSCA inventory or are not required to be listed on the TSCA.

TSCA sections for substances listed in section 3:

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

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

n-hexane is listed in TSCA Section 8b.

SARA - Superfund Amendments and Reauthorization Act

Section 302 Extremely Hazardous Substances: no substances listed.

Section 304 Hazardous substances: cyclohexane, n-hexane.

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

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

Substance(s) listed under CERCLA: cyclohexane - Reportable quantity: 1000 pounds

n-hexane - Reportable quantity: 5000 pounds.

Reportable quantity for mixture: 51124.74438 pounds.

CAA - Clean Air Act

CAA listed substances:

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propan-2-ol; isopropyl alcohol; isopropanol is listed in CAA Section 111
cyclohexane is listed in CAA Section 111, Section 112(b) - HON
n-hexane is listed in CAA Section 111, Section 112(b) - HAP, Section 112(b) - HON.

CWA - Clean Water Act

CWA listed substances:

propan-2-ol; isopropyl alcohol; isopropanol is listed in CWA Section 304
cyclohexane is listed in CWA Section 311
n-hexane is listed in CWA Section 304.

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
cyclohexane
n-hexane.

New Jersey Right to know

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

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

Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

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

The following substance(s) in this product has/have an identification by CAS number either in countries not affected by the REACH regulation or in regulations not yet updated to reflect the new naming convention for hydrocarbon solvents:

HYDROCARBONS, C7-C9, N-ALKANES, ISOALKANES, CYCLICS (CAS: 64742-49-0)

16. OTHER INFORMATION

Full text of phrases referred to in Section 3:

- H225 Highly flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H336 May cause drowsiness or dizziness.
- H411 Toxic to aquatic life with long lasting effects.
- H319 Causes serious eye irritation.
- H315 Causes skin irritation.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

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H361 Suspected of damaging fertility or the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

Sections modified from the previous revision:

1. IDENTIFICATION
8. EXPOSURE CONTROLS/PERSONAL PROTECTION
9. PHYSICAL AND CHEMICAL PROPERTIES
11. TOXICOLOGICAL INFORMATION
12. ECOLOGICAL INFORMATION

According to TSCA section 3(2)(B)(i) : a hydrated form of a chemical substance is considered a mixture of the corresponding anhydrous form and water.

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 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

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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.

TOTAL
VOC'S
(TVOC) /
NONEXEMPT
VOC'S
(CVOC):
Using
California
South Coast
Air Quality
Management
District
(SCAQMD)
Rule 1143.

STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.
TLV: Threshold Limiting Value.
TWA: Time-weighted average

Safety Data Sheet date: 7/31/2024, version 2