



SOCAR CHEMICAL, LLC

**Safety Data Sheet
Bio-Safe Solvent**

Version 1.0 • Date of issue: 2023-03-14

SECTION 1: Identification

GHS Product identifier

Product name Bio-Safe Solvent

Recommended use of the chemical and restrictions on use

Removal of heavy grease, oil, and adhesives.

Supplier's details

Name	Socar Chemical, LLC
Address	2609 Rutherford Rd Greenville SC 29609 USA
Telephone	(864) 244-5068
email	cs@socarchemical.com

Emergency phone number

CHEMTREC 1(800) 424-9300
CCN695199

SECTION 2: Hazard identification

Classification of the substance or mixture

GHS classification in accordance with: OSHA (29 CFR 1910.1200)

- Skin corrosion/irritation, Cat. 2
- Sensitization, skin, Cat. 1
- Specific target organ toxicity (single exposure), Cat. 3

GHS label elements, including precautionary statements

Pictograms



Signal word

Warning

Hazard statement(s)

Causes skin irritation
May cause an allergic skin reaction
May cause respiratory irritation
May cause drowsiness or dizziness

Precautionary statement(s)

Prevention	Avoid breathing dust/fume/gas/mist/vapors/spray. Wash ... thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves.
Response	IF ON SKIN: Wash with plenty of water/... IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor/.../ if you feel unwell. Specific treatment (see ... on this label). If skin irritation occurs: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Wash contaminated clothing before reuse.
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal	Dispose of contents/container to

SECTION 3: Composition/information on ingredients

Mixtures

Hazardous components

Component	Concentration
Distillates, petroleum, hydrotreated light (CAS no.: 101631-19-0; EC no.: 309-944-0; Index no.: 649-434-00-8)	<= 68 % (weight)
CLASSIFICATIONS: Aspiration hazard, Cat. 1; Flammable liquids, Cat. 4; Hazardous to the aquatic environment, long-term (chronic), Cat. 2; Specific target organ toxicity (single exposure), Cat. 3; Skin corrosion/irritation, Cat. 2. HAZARDS: H227 - Combustible liquid; H304 - May be fatal if swallowed and enters airways; H315 - Causes skin irritation; H335 - May cause respiratory irritation; H336 - May cause drowsiness or dizziness; H411 - Toxic to aquatic life with long lasting effects.	
Nonylphenoxypoly(ethyleneoxy)ethanol (CAS no.: 26027-38-3)	<= 5 % (weight)
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
D-Limonene (CAS no.: 5989-27-5; EC no.: 227-813-5)	<= 25 % (weight)
CLASSIFICATIONS: Aspiration hazard, Cat. 1; Flammable liquids, Cat. 3; Hazardous to the aquatic environment, short-term (acute), Cat. 1; Hazardous to the aquatic environment, long-term (chronic), Cat. 1; Sensitization, skin, Cat. 1; Skin corrosion/irritation, Cat. 2. HAZARDS: H226 - Flammable liquid and vapor; H304 - May be fatal if swallowed and enters airways; H315 - Causes skin irritation; H317 - May cause an allergic skin reaction; H400 - Very toxic to aquatic life; H410 - Very toxic to aquatic life with long lasting effects.	
COCO AMIDES (CAS no.: 8051-30-7; EC no.: 232-483-0)	<= 2 % (weight)
CLASSIFICATIONS: No data available. HAZARDS: No data available.	

SECTION 4: First-aid measures

Description of necessary first-aid measures

If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with plenty of water for at least 15 minutes. Call a poison center or doctor if irritation develops or persists. Take off contaminated clothing and wash it before reuse.

Acute and delayed symptoms and effects: Causes skin irritation.
Signs/symptoms may include localized redness, swelling, and itching.

In case of eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center or doctor if you feel unwell.

Acute and delayed symptoms and effects: May cause eye irritation.
Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

If swallowed

Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately if symptoms occur.

Most important symptoms/effects, acute and delayed

Not applicable

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

Not applicable

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Specific hazards arising from the chemical

Distillates, petroleum, hydrotreated light: Carbon oxides

Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.

Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

SECTION 7: Handling and storage

Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. For precautions see section 2.2.

Avoid contact with skin and eyes. Do not eat, drink or smoke while handling. Wash hands with soap and water after handling. For precautions see section 2.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Storage class (TRGS 510): Flammable liquids

SECTION 8: Exposure controls/personal protection

Appropriate engineering controls

Not normally required. Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

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

Pictograms



Eye/face protection

Eye/Face Protection: None required with normal household use. Industrial Setting: For splash protection, use chemical goggles. Eye wash fountain is recommended.

Skin protection

Skin Protection: None required with normal household use. Industrial Setting: Protective gloves (for hands) and protective clothing are required where repeated or prolonged skin contact may occur.

Respiratory protection

Distribution, Workplace and Household Settings: No special protective equipment required. Product Manufacturing Plant (needed at Product-Producing Plant ONLY): In case of insufficient ventilation wear suitable respiratory equipment

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state	Liquid
Appearance	Amber liquid
Color	Clear amber
Odor	Citrus/petroleum
Odor threshold	Mild
Melting point/freezing point	Not available
Boiling point or initial boiling point and boiling range	349 °F
Flammability	Flammable
Lower and upper explosion limit/flammability limit	Not available
Flash point	145 °F
Auto-ignition temperature	453 °F
Decomposition temperature	Not available
pH	Not available
Kinematic viscosity	Not available
Solubility	Negligible
Partition coefficient n-octanol/water (log value)	Not available
Vapor pressure	0.32 mmHG @ 20°C API CALCULATION
Evaporation rate	0.15 (100% Evaporation w/o residue)
Density and/or relative density	0.677 @60 °F

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Relative vapor density

Not available

Particle characteristics

Not applicable

Supplemental information regarding physical hazard classes

Not applicable

Further safety characteristics (supplemental)

Not applicable

SECTION 10: Stability and reactivity

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal use conditions.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

Distillates, petroleum, hydrotreated light: Strong oxidizing agents, Strong bases, Strong acids, Amines

Hazardous decomposition products

Other decomposition products - No data available.

In the event of fire: see section 5

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

D-LIMONENE

LD50 Oral - Rat - 4,400 mg/kg

Citation: Sigma SDS

LD50 Skin - Rabbit - >5,000 mg/kg

Citation: Sigma SDS

Distillates, petroleum, hydrotreated light

LD50 Oral - Rat - > 5000 mg/kg

LD50 Skin - Rabbit - > 5,000 mg/kg

LC0 Inhalation - Rat - 4951 mg/m3 - 4 h

Result: Based on results obtained from tests on analogous products

Skin corrosion/irritation

Distillates, petroleum, hydrotreated light

Rabbit

Result: Irritating

May cause skin irritation.

Serious eye damage/irritation

Distillates, petroleum, hydrotreated light

Rabbit

Result: Not irritating to eyes

Based on available data, classification data are not met

Respiratory or skin sensitization

D-Limonene

OECD Test Guideline 429

Result: May cause sensitisation by skin contact.

Distillates, petroleum, hydrotreated light

Result: The product is not expected to be sensitizing

Germ cell mutagenicity

Distillates, petroleum, hydrotreated light

Result: Not mutagenic.

Carcinogenicity

D-LIMONENE

IARC carcinogen

Result: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (D-Limonene)

Distillates, petroleum, hydrotreated light

Result: Carcinogenicity study in rats (OECD 451): Negative

Reproductive toxicity

Distillates, petroleum, hydrotreated light

Result: No data available

Specific target organ toxicity (STOT) - single exposure

Distillates, petroleum, hydrotreated light

Result: No data available

Result: May cause drowsiness or dizziness. - Central nervous system

Specific target organ toxicity (STOT) - repeated exposure

Based on available data, classification data are not met

Aspiration hazard

Distillates, petroleum, hydrotreated light

Result: May be fatal if swallowed and enters airways.

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Additional information

D-Limonene: *TOXICITY:

typ. dose mode specie amount units other

LDLo idu mus 1 gm/kg

LD50 ipr mus 600 mg/kg

LD50 ipr rat 3600 mg/kg

LD50 ivn rat 110 mg/kg

LD50 orl mus 5600 mg/kg

LD50 orl rat 4400 mg/kg

LD50 scu mus 3170 mg/kg

*AQTX/TLM96: over 1000 ppm [052]

*SAX TOXICITY EVALUATION:

THR: Poison by intravenous route. Moderately toxic by intraperitoneal and intraduodenal routes. Mildly toxic by ingestion. An experimental tumorigen and teratogen. Experimental reproductive effects.

*CARCINOGENICITY:

Tumorigenic Data:

TDLo: orl-mus 67 gm/kg/39W-I

Status: NTP Carcinogenesis Studies (Gavage); Clear Evidence: Male Rat [620]

NTP Carcinogenesis Studies (Gavage); No Evidence: Female Rat, Male and

Female Mouse [620]

*MUTATION DATA:

test lowest dose | test lowest dose

----- | -----

Not available |

*TERATOGENICITY:

Reproductive Effects Data:

TDLo: orl-dog 680 gm/kg (27W male)

TDLo: orl-mus 3546 mg/kg (7-12D preg)

TDLo: orl-mus 14178 mg/kg (7-12D preg)

TDLo: orl-rat 20083 mg/kg (9-15D preg)

TDLo: orl-rat 252 gm/kg (26W male)

TDLo: orl-rat 83 gm/kg (30D pre)

TDLo: orl-rbt 3250 mg/kg (6-18D preg)

*STANDARDS, REGULATIONS & RECOMMENDATIONS:

OSHA: None

ACGIH: None

NIOSH Criteria Document: None

NFPA Hazard Rating: Health (H): None

Flammability (F): None

Reactivity (R): None

*OTHER TOXICITY DATA:

Review: Toxicology Review

Status: EPA TSCA Chemical Inventory, 1986

EPA TSCA Test Submission (TSCATS) Data Base, January 1989

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Meets criteria for proposed OSHA Medical Records Rule
Ingestion of 15 grams of this type of compound has caused death [301]

COCO AMIDES: *TOXICITY:
typ. dose mode specie amount units other
Not available

*AQTX/TLM96: Not available

*SAX TOXICITY EVALUATION:
THR: Not available

*CARCINOGENICITY: Not available

*MUTATION DATA: Not available

*TERATOGENICITY: Not available

*STANDARDS, REGULATIONS & RECOMMENDATIONS:

OSHA: None

ACGIH: None

NIOSH Criteria Document: None

NFPA Hazard Rating: Health (H): 1

Flammability (F): 1

Reactivity (R): 0

H1: Materials only slightly hazardous to health (see NFPA for details).

F1: Materials that must be preheated before ignition can occur (see NFPA for details).

R0: Materials which are normally stable even under fire exposure conditions and which are not reactive with water (see NFPA for details).

*OTHER TOXICITY DATA: Not available

SECTION 12: Ecological information

Toxicity

D-LIMONENE

LC50 - Pimephales promelas (fathead minnow) - 0.72 mg/l - 96 h

Citation: Sigma SDS

EC50 - Daphnia magna (water flea) - 0.36 mg/l - 48 h

Citation: Sigma SDS

Distillates, petroleum, hydrotreated light

NOEC - Daphnia magna (water flea) - >1000 mg/l - 21 d

LC0 - Oncorhynchus mykiss (rainbow trout) - >1000 mg/l - 96 h

EC0 - Daphnia magna (water flea) - >1000 mg/l - 48 h

IC0 - Pseudokirchneriella subcapitata (green algae) - >1000 mg/l - 72 h

NOEC - Oncorhynchus mykiss (rainbow trout) - >1000 mg/l - 28 d

EC50 - Tetrahymena pyriformis - >1000 mg/l - 48 h

Persistence and degradability

Distillates, petroleum, hydrotreated light

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Result: Readily biodegradable. Does not hydrolyze

Bioaccumulative potential

Distillates, petroleum, hydrotreated light

Result: Bioconcentration factor (BCF): no data available. Partition co-efficient (Log Pow): 3-6

SECTION 13: Disposal considerations

Disposal methods

Product disposal

Dispose of contents/ container in accordance with the local/regional/national/international regulations. Non Household Setting: Products covered by this SDS, in their original form, when disposed as waste, are considered non hazardous waste according to Federal RCRA regulations (40 CFR 261). Disposal should be in accordance with local, state and federal regulations. Solutions of diluted detergent in the course of use, may be allowed to be flushed down sewer. First check with your local water treatment plant. Recycling is undiluted scrap product. Do not landfill. Household Use: Household product is safe for disposal down the drain during detergent use or in the trash. Dispose of empty bottle in the trash or recycle where facilities exist.

SECTION 14: Transport information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15: Regulatory information

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

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Canadian Domestic Substances List (DSL)

Chemical name: Poly(oxy-1,2-ethanediyl), α -(4-nonylphenyl)- ω -hydroxy-

CAS: 26027-38-3

Chemical name: Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (R)-

CAS: 5989-27-5

Chemical name: Coconut oil, reaction products with diethanolamine

CAS: 8051-30-7

Massachusetts Right To Know Components

Distillates, petroleum, hydrotreated light

CAS-No. 64742-47-8

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D-Limonene

New Jersey Right To Know Components

Distillates, petroleum, hydrotreated light
CAS-No. 64742-47-8

D-Limonene

Pennsylvania Right To Know Components

Distillates, petroleum, hydrotreated light
CAS-No. 64742-47-8

D-Limonene

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

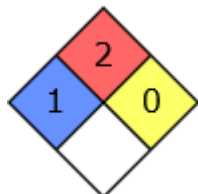
SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

HMIS Rating

Bio-Safe Solvent	
HEALTH	1
FLAMMABILITY	2
PHYSICAL HAZARD	0
PERSONAL PROTECTION	X

NFPA Rating



SECTION 16: Other information

Date of last revision: March 2023

Further information/disclaimer

To the best of the knowledge of the preparer(s), the information contained herein is reliable and accurate as of this date. However, accuracy, suitability, or completeness is not guaranteed, and no warranties of any type - either express or implied are provided. The information contained herein relates only to this specific product.

Preparation information

SDS Prepared by: Andrew Snow