

LEXSOL 542

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Trade Name Lexsol 542
Synonyms Heat Transfer Fluid, Coolant
Use Industrial Use, Heat transfer Fluid, Refrigerant
Company Santa Barbara Chemical Corp.
Address P.O. Box 4430 Santa Barbara, CA 93140, USA
Telephone CHEMTREC North America Transportation Emergency (24hr) (800) 424-9300
 CHEMTREC Worldwide (703) 527-3887
 SDS and Product Information (9:00am-5:00pm PST) (805) 965-7513
E-mail Address info@santabarbarchemicals.com

SECTION 2 HAZARDS IDENTIFICATION

GHS Hazards

Flammable liquids	Category 4
Aspiration hazard	Category 1

LABEL ELEMENTS**Hazard symbols****Signal word** Danger

Hazard statements H227 Combustible liquid.
 H304 May be fatal if swallowed and enters airways.

Precautionary statements

Prevention P210 Keep away from open flames/hot surfaces. - No smoking.
 P280 Wear protective gloves/ eye protection/ face protection.

Response P370 + P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide for extinction.
 P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
 P331 Do NOT induce vomiting.

Storage P403 + P405 + P235 Store locked up in a well-ventilated place. Keep cool.

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Disposal P501 Dispose of contents/ container to an approved waste disposal plant.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

<u>Components</u>	<u>CAS-No.</u>	<u>Weight percent</u>
Distillates, petroleum, hydrotreated light	64742-47-8	100

See Section 8 for Exposure Guidelines and Section 15 for Regulatory Classifications.

SECTION 4 FIRST AID MEASURES

- Eye contact** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- Skin contact** Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. When symptoms persist or in all cases of doubt seek medical advice. Wash contaminated clothing before re-use.
- Inhalation** Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. In case of shortness of breath, give oxygen. Call a physician immediately.
- Ingestion** If swallowed, call a poison control centre or doctor immediately. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

SECTION 5 FIREFIGHTING MEASURES

FLAMMABLE PROPERTIES

Fire/explosion NFPA Class IIIA combustible liquid.

Suitable extinguishing media Water spray or fog, foam, dry chemical, CO₂

Protective equipment and precautions for firefighters Wear self-contained breathing apparatus and protective suit.

Further information Keep containers and surroundings cool with water spray.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Methods and materials for containment and cleaning up Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

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SECTION 7 HANDLING AND STORAGE

Safe handling advice	Ensure all equipment is electrically grounded before beginning transfer operations.
Storage/Transport temperature	Ambient
Storage/Transport pressure	Ambient
Load/Unload temperature	Ambient

EXPOSURE CONTROLS/PERSONAL PROTECTION**SECTION 8**

ENGINEERING MEASURES

Air contaminant levels should be controlled below the PEL or TLV for this product (see Exposure Guidelines).

PERSONAL PROTECTIVE EQUIPMENT

Eyes Wear as appropriate: Goggles, Face-shield

Skin Wear suitable protective clothing, gloves and eye/face protection.

Inhalation Respiratory protection is normally not required except in emergencies or when conditions cause excessive airborne levels of mists or vapors. Use NIOSH approved respiratory protection.

EXPOSURE GUIDELINES

Contains no substances with occupational exposure limit values., The following Sasol internal standard would apply:, 100 ppm (525 mg/m³) for 8-hour TWA (Exposure limits for Petroleum Distillate - Stoddard Solvent)

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	liquid;
Colour	clear
Form	liquid
Odour	hydrocarbon-like
Odour Threshold	no data available
Flash point	Average 63 °C, 145 °F; ASTM D 56;
Flammability	Upper explosion limit: 7.0 %(V) Lower explosion limit: 0.7 %(V)

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Boiling point/boiling range	192 - 211 °C, 376 - 412 °F; ASTM D-86; ASTM D-86;
Melting point/range	< -70 °C, < -94 °F; ASTM D-2386;
Auto-ignition temperature	233 °C, 453 °F; ASTM E 659;
Decomposition temperature	no data available
Flammability (solid, gas)	no data available
Vapour pressure	0.32 mm Hg @ 20 °C, 68 °F; API Calculation;
Vapour density	5.4
Density	0.803 g/cm ³ @ 15.5 °C, 60 °F; ASTM D-287;
Specific gravity	; no data available
Water solubility	@ 20 °C, 68 °F; ; negligible;
Viscosity	1.8 cSt @ 20 °C, 68 °F; ASTM D 445;
pH	no data available
Evaporation rate	no data available
Partition coefficient: n-octanol/water	no data available

SECTION 10 STABILITY AND REACTIVITY

Reactivity	Stable at normal ambient temperature and pressure.
Chemical stability	No decomposition if stored and applied as directed.
Conditions to avoid	Keep away from heat and sources of ignition.
Hazardous decomposition products	Hazardous gases and vapors produced in fire are oxides of carbon.
Materials to avoid	Oxidizing agents
Hazardous polymerisation	None.

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SECTION 11 TOXICOLOGICAL INFORMATION

Acute dermal toxicity	LD50 rabbit: 2,000 - 4,000 mg/kg LPA Solvent
Acute inhalation toxicity	LC50 rat (4 hours): > 4.3 mg/l
Acute oral toxicity	LD50 rat: > 5,000 mg/kg
Skin corrosion/irritation	Primary irritation (rabbit): 1.2 (Max. score is 8.0.)
Eye damage/irritation	Primary irritation (rabbit): 1 hours, 3.0 (Max. score is 110.)
Respiratory or skin sensitization	no data available
Germ cell mutagenicity	Genotoxicity in vitro: no data available Genotoxicity in vivo: no data available Assessment Mutagenicity: Based on available data, the classification criteria are not met.
Reproductive toxicity	Reproductive toxicity: no data available Assessment Reproductive toxicity: Based on available data, the classification criteria are not met. Teratogenicity: no data available Assessment teratogenicity: Based on available data, the classification criteria are not met.
STOT - single exposure	no data available
STOT - repeated exposure	no data available
Aspiration toxicity	no data available
Carcinogenicity	Assessment carcinogenicity: Based on available data, the classification criteria are not met.

SECTION 12 ECOLOGICAL INFORMATION

Aquatic toxicity Not toxic to aquatic organisms (fish, daphnia, algae) up to water solubility.

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Toxicity to fish	no data available
Toxicity to aquatic invertebrates	no data available
Toxicity to algae	no data available
Biodegradation	Readily biodegradable. OECD Test Guideline 301F (28 d): 97 % Test substance: LPA® 142 Solvent
Bioaccumulation	no data available
Mobility in soil	no data available
Other adverse effects	no data available

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Code	Any unused product or empty containers may be disposed of as non-hazardous in accordance with state and federal requirements. Re-evaluation of the product may be required by the user at the time of disposal, since the product uses, transformations, mixtures, contamination, and spillage may change the classification. If the resulting material is determined to be hazardous, please dispose in accordance with state and federal (40 CFR 262) hazardous waste regulations.
Disposal methods	Dispose of only in accordance with local, state, and federal regulations.
Empty containers.	Empty containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Empty drums should be completely drained, triple-rinsed, properly bunged and promptly returned to a drum reconditioner, or properly disposed.

SECTION 14 TRANSPORT INFORMATION

DOT	Not regulated. Product does not sustain combustion (49 CFR 173.120(b)(3)).
IATA	Not regulated.
IMDG	Not regulated.

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SECTION 15 REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS**OSHA Hazards (HCS 1994)**

Combustible liquid.

TSCA Inventory Listing**Components**

Distillates, petroleum, hydrotreated light

CAS-No.

64742-47-8

SARA 302 Status

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

SARA 311/312 Classification

"Fire hazard"

SARA 313 Chemical

SARA 313: 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.

US. EPA CERCLA Hazardous Substances (40 CFR 302)

none

INTERNATIONAL REGULATIONS**WHMIS Classification**

Class B, Division 3: Combustible liquid.

European Union

Xn: Harmful

R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.

Australia. Inventory of Chemical Substances (AICS)	Listed
Japan. Inventory of Existing and New Chemical Substances (ENCS)	Listed
Japan. Industrial Safety & Health Law (ISHL) Inventory	Listed
Canada. Domestic Substances List (DSL) Inventory	Listed
Canadian Non-Domestic Substance Listing (NDSL)	Not listed
Philippines. Inventory of Chemicals / Chemical Substances (PICCS)	Listed
Korea. Existing Chemicals Inventory (KECI)	Listed
China. Inventory of Existing Chemical Substances (IECSC)	Listed
Mexico. National Inventory of Chemical Substances (INSQ)	Listed

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New Zealand. Inventory of Chemicals (NZIoC)	Listed
Switzerland. Inventory of Notified New Substances (CHINV)	Listed
Taiwan. National Existing Chemical Inventory (NECI)	Listed

Please note: The names and CAS numbers which are used for this product in the stated inventories may deviate from the information which is listed in Section 3.

STATE REGULATIONS

California Prop. 65
none

SECTION 16 OTHER INFORMATION**HAZARD RATINGS**

	<u>Health</u>	<u>Flammability</u>	<u>Physical Hazard/ Instability</u>
HMIS®	1	2	0
NFPA	1	2	0

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