

LEXSOL 542

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

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**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](mailto:info@santabarbarchemicals.com)

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**SECTION 2 HAZARDS IDENTIFICATION**

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**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.

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### SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

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<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.

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### SECTION 4 FIRST AID MEASURES

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- 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.

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### SECTION 5 FIREFIGHTING MEASURES

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#### 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.

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### SECTION 6 ACCIDENTAL RELEASE MEASURES

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**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**

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

**EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**SECTION 8**

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**ENGINEERING MEASURES**

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

**PERSONAL PROTECTIVE EQUIPMENT**

<b>Eyes</b>	Wear as appropriate: Goggles, Face-shield
<b>Skin</b>	Wear suitable protective clothing, gloves and eye/face protection.
<b>Inhalation</b>	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)

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**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

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

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

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**SECTION 10 STABILITY AND REACTIVITY**

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

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**SECTION 11 TOXICOLOGICAL INFORMATION**

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

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**SECTION 12 ECOLOGICAL INFORMATION**

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

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

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**SECTION 13                      DISPOSAL CONSIDERATIONS**

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<b>Waste Code</b>	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.
<b>Disposal methods</b>	Dispose of only in accordance with local, state, and federal regulations.
<b>Empty containers.</b>	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.

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**SECTION 14                      TRANSPORT INFORMATION**

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

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**SECTION 15 REGULATORY INFORMATION**

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**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

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**SECTION 16            OTHER INFORMATION**

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**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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