



# SAFETY DATA SHEET

## 1. Identification

**Product identifier** STEPOSOL C-42

**Other means of identification**  
**Product code** 0742

**Recommended use** Surfactant

**Recommended restrictions** For industrial use only.

**Manufacturer/Importer/Supplier/Distributor information**  
**Manufacturer**

**Company name** Stepan Company  
**Address** 22 West Frontage Road  
Northfield, IL 60093  
USA

**Telephone** General 1-847-446-7500  
**E-mail** Not available.

**Emergency phone number** Medical 1-800-228-5635  
Chemtrec 1-800-424-9300  
Chemtrec Int'l +1 703-527-3887

## 2. Hazard(s) identification

**Physical hazards** Not classified.  
**Health hazards** Not classified.  
**Environmental hazards** Not classified.  
**OSHA defined hazards** Not classified.

### Label elements

**Hazard symbol** None.  
**Signal word** None.  
**Hazard statement** The mixture does not meet the criteria for classification.  
**Precautionary statement**

**Prevention** Observe good industrial hygiene practices.  
**Response** Wash hands after handling.  
**Storage** Store away from incompatible materials.  
**Disposal** Dispose of waste and residues in accordance with local authority requirements.

**Hazard(s) not otherwise classified (HNOC)** Porous material such as rags, paper, insulation, or organic clay may spontaneously combust when wetted with this material.

**Supplemental information** None.

## 3. Composition/information on ingredients

### Mixtures

| Chemical name                               | Common name and synonyms | CAS number | %         |
|---|--------------------------|------------|-----------|
| Methyl Laurate (Alternate CAS 67762-40-7)   |                          | 111-82-0   | 70 - < 80 |
| Methyl Myristate (Alternate CAS 67762-40-7) |                          | 124-10-7   | 20 - < 30 |
| Other components below reportable levels    |                          |            | < 0.1     |

## 4. First-aid measures

**Inhalation** Move to fresh air. Call a physician if symptoms develop or persist.  
**Skin contact** Wash off with soap and water. Get medical attention if irritation develops and persists.

|   |  |
|---|--|
| <b>Eye contact</b>  | Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| <b>Ingestion</b>  | Rinse mouth. Get medical attention if symptoms occur.  |
| <b>Most important symptoms/effects, acute and delayed</b>                     | Exposed individuals may experience eye tearing, redness, and discomfort.   |
| <b>Indication of immediate medical attention and special treatment needed</b> | Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.   |
| <b>General information</b>  | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.   |

## 5. Fire-fighting measures

|  |  |
|--|--|
| <b>Suitable extinguishing media</b>                                  | Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).  |
| <b>Unsuitable extinguishing media</b>                                | Do not use water jet as an extinguisher, as this will spread the fire.   |
| <b>Specific hazards arising from the chemical</b>                    | Porous material such as rags, paper, insulation, or organic clay may spontaneously combust when wetted with this material. During fire, gases hazardous to health may be formed. |
| <b>Special protective equipment and precautions for firefighters</b> | Self-contained breathing apparatus and full protective clothing must be worn in case of fire.  |
| <b>Fire fighting equipment/instructions</b>                          | Move containers from fire area if you can do so without risk.  |
| <b>Specific methods</b>  | Use standard firefighting procedures and consider the hazards of other involved materials.   |

## 6. Accidental release measures

|  |  |
|--|--|
| <b>Personal precautions, protective equipment and emergency procedures</b> | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.   |
| <b>Methods and materials for containment and cleaning up</b>               | The product is immiscible with water and will spread on the water surface.<br><br>Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.<br><br>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.<br><br>Never return spills to original containers for re-use. |
| <b>Environmental precautions</b>   | Avoid discharge into drains, water courses or onto the ground.   |

## 7. Handling and storage

|   |   |
|---|---|
| <b>Precautions for safe handling</b>                                | Avoid contact with eyes. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. |
| <b>Conditions for safe storage, including any incompatibilities</b> | Store in original tightly closed container.   |

## 8. Exposure controls/personal protection

|  |  |
|--|--|
| <b>Biological limit values</b>   | No biological exposure limits noted for the ingredient(s).   |
| <b>Appropriate engineering controls</b>                                      | Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station. |
| <b>Individual protection measures, such as personal protective equipment</b> |  |
| <b>Eye/face protection</b>   | Wear safety glasses with side shields (or goggles). Face-shield.   |
| <b>Skin protection</b>   |  |
| <b>Hand protection</b>   | For prolonged or repeated skin contact use suitable protective gloves.   |
| <b>Other</b>   | Wear suitable protective clothing.   |

|                                       |   |
|---------------------------------------|---|
| <b>Respiratory protection</b>         | In case of insufficient ventilation, wear suitable respiratory equipment.   |
| <b>Thermal hazards</b>                | Wear appropriate thermal protective clothing, when necessary.   |
| <b>General hygiene considerations</b> | Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. |

## 9. Physical and chemical properties

|   |  |
|---|--|
| <b>Appearance</b>                                   | Clear to slightly hazy.                          |
| <b>Physical state</b>                               | Liquid.  |
| <b>Form</b>   | Liquid.  |
| <b>Color</b>  | Not available.                                   |
| <b>Odor</b>   | Not available.                                   |
| <b>Odor threshold</b>                               | Not available.                                   |
| <b>pH</b>   | Not available.                                   |
| <b>Melting point/freezing point</b>                 | Not available.                                   |
| <b>Initial boiling point and boiling range</b>      | 525.2 °F (274 °C)                                |
| <b>Flash point</b>                                  | > 201.0 °F (> 93.9 °C) Pensky-Martens Closed Cup |
| <b>Evaporation rate</b>                             | Estimated slower than ethyl ether.               |
| <b>Flammability (solid, gas)</b>                    | Not available.                                   |
| <b>Upper/lower flammability or explosive limits</b> |  |
| <b>Flammability limit - lower (%)</b>               | Not available.                                   |
| <b>Flammability limit - upper (%)</b>               | Not available.                                   |
| <b>Explosive limit - lower (%)</b>                  | Not available.                                   |
| <b>Explosive limit - upper (%)</b>                  | Not available.                                   |
| <b>Vapor pressure</b>                               | 0.02 torr @ 25C                                  |
| <b>Vapor density</b>                                | Estimated heavier than air.                      |
| <b>Relative density</b>                             | Not available.                                   |
| <b>Solubility(ies)</b>                              |  |
| <b>Solubility (water)</b>                           | Insoluble  |
| <b>Auto-ignition temperature</b>                    | Not available.                                   |
| <b>Decomposition temperature</b>                    | Not available.                                   |
| <b>Viscosity</b>                                    | 2 cP @ 25C<br>3 cP @ 20C                         |
| <b>Other information</b>                            |  |
| <b>Specific gravity</b>                             | 0.87 @ 25C                                       |

## 10. Stability and reactivity

|   |   |
|---|---|
| <b>Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| <b>Chemical stability</b>                 | Material is stable under normal conditions.   |
| <b>Possibility of hazardous reactions</b> | No dangerous reaction known under conditions of normal use.                                   |
| <b>Conditions to avoid</b>                | Avoid temperatures exceeding the flash point. Contact with incompatible materials.            |
| <b>Incompatible materials</b>             | Strong oxidizing agents.  |
| <b>Hazardous decomposition products</b>   | No hazardous decomposition products are known.  |

## 11. Toxicological information

### Information on likely routes of exposure

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | No adverse effects due to inhalation are expected.       |
| <b>Skin contact</b> | No adverse effects due to skin contact are expected.     |
| <b>Eye contact</b>  | Direct contact with eyes may cause temporary irritation. |

**Ingestion** Expected to be a low ingestion hazard.  
**Symptoms related to the physical, chemical and toxicological characteristics** Exposed individuals may experience eye tearing, redness, and discomfort.

**Information on toxicological effects**

**Acute toxicity**

| Product       | Species | Test Results |
|---------------|---------|--------------|
| STEPOSOL C-42 |         |              |
| <b>Acute</b>  |         |              |
| <b>Dermal</b> |         |              |
| LD50          | Rabbit  | > 2000 mg/kg |
| <b>Oral</b>   |         |              |
| LD50          | Rat     | > 5000 mg/kg |

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation.

**Serious eye damage/eye irritation** Direct contact with eyes may cause temporary irritation.

**Respiratory or skin sensitization**

**Respiratory sensitization** Not available.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

Not listed.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)**

Not regulated.

**US. National Toxicology Program (NTP) Report on Carcinogens**

Not listed.

**Reproductive toxicity** This product is not expected to cause reproductive or developmental effects.

**Specific target organ toxicity - single exposure** Not applicable.

**Specific target organ toxicity - repeated exposure** Not applicable.

**Aspiration hazard** Not applicable.

**12. Ecological information**

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Persistence and degradability** Readily biodegradable.

**Bioaccumulative potential** No data available.

**Mobility in soil** No data available.

**Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

**13. Disposal considerations**

**Disposal instructions** Dispose of contents/container in accordance with local/regional/national/international regulations.

**Hazardous waste code** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Waste from residues / unused products** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## 14. Transport information

### DOT

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**      Pollution category: Y  
Ship type: 2  
Product name: Fatty Acid Methyl Ester

## 15. Regulatory information

### US federal regulations

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

#### CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

#### SARA 304 Emergency release notification

Not regulated.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### SARA 302 Extremely hazardous substance

Not listed.

**SARA 311/312 Hazardous chemical**      No

#### SARA 313 (TRI reporting)

Not regulated.

### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

**Safe Drinking Water Act (SDWA)**      Not regulated.

### US state regulations

#### California Proposition 65



**WARNING:** This product can expose you to chemicals including Methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

#### California Proposition 65 - CRT: Listed date/Developmental toxin

Methanol (CAS 67-56-1)

Listed: March 16, 2012

### International Inventories

| Country(s) or region | Inventory name  | On inventory (yes/no)* |
|----------------------|---|------------------------|
| Australia            | Australian Inventory of Chemical Substances (AICS)                | Yes                    |
| Canada               | Domestic Substances List (DSL)                                    | Yes                    |
| Canada               | Non-Domestic Substances List (NDSL)                               | No                     |
| China                | Inventory of Existing Chemical Substances in China (IECSC)        | Yes                    |
| Japan                | Inventory of Existing and New Chemical Substances (ENCS)          | Yes                    |
| Korea                | Existing Chemicals List (ECL)                                     | Yes                    |
| New Zealand          | New Zealand Inventory (NZIoC)                                     | Yes                    |
| Philippines          | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | Yes                    |
| Taiwan               | Taiwan Inventory (TCSI)   | Yes                    |

| <b>Country(s) or region</b> | <b>Inventory name</b>                         | <b>On inventory (yes/no)*</b> |
|-----------------------------|---|-------------------------------|
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes                           |

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)  
 A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

**16. Other information, including date of preparation or last revision**

|                      |            |
|----------------------|------------|
| <b>Issue date</b>    | 07-09-2014 |
| <b>Revision date</b> | 07-20-2018 |
| <b>Version #</b>     | 06         |

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**Revision information** Identification: Recommended restrictions  
 Hazard(s) identification: Response  
 Hazard(s) identification: Hazard(s) not otherwise classified (HNOC)  
 Hazard(s) identification: Supplemental information  
 Composition / Information on Ingredients: Disclosure Overrides  
 Physical & Chemical Properties: Multiple Properties  
 Transport Information: Material Transportation Information  
 Regulatory information: California Proposition 65  
 Regulatory information: US federal regulations  
 HazReg Data: International Inventories  
 GHS: Classification