# Stepan 💃

# SAFETY DATA SHEET

# 1. Identification

Product identifier STEPOSOL SC

Other means of identification

Product code 2144

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 hazardsFlammable liquidsCategory 4Health hazardsSerious eye damage/eye irritationCategory 1

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements



Signal word Danger

**Hazard statement** Combustible liquid. Causes serious eye damage. May cause respiratory irritation.

**Precautionary statement** 

Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only outdoors or in a

well-ventilated area. Wear protective gloves/eye protection/face protection.

**Response** If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse

cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. In case of fire: Use appropriate media

to extinguish.

Storage Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place.

Keep cool. Store locked up.

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

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	%
Soybean Oil, Methyl Esters		67784-80-9	40 - 70

Material name: STEPOSOL SC

SDS US

4.77

 Chemical name
 Common name and synonyms
 CAS number
 %

 \_Ethyl lactate
 97-64-3
 40 - 70

 Other components below reportable levels
 0.01

# 4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON

CENTER or doctor/physician if you feel unwell.

damage including blindness could result.

**Skin contact** Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention immediately.

**Ingestion** Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and

symptoms/effects, acute and delayed

Indication of immediate medical attention and special

treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye

**General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

# 5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing

media
Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

Fire fighting equipment/instructions

Specific methods
General fire hazards

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

mixtures. During fire, gases hazardous to health may be formed.

The product is combustible, and heating may generate vapors which may form explosive vapor/air

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials. Combustible liquid. Porous material such as rags, paper, insulation, or organic clay may spontaneously combust when wetted with this material.

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of vapors or mists. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material.

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. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground.

#### 7. Handling and storage

Precautions for safe handling

Keep away from open flames, hot surfaces and sources of ignition. When using do not smoke. Do not get this material in contact with eyes. Avoid breathing mist or vapor. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

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Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Keep in an area equipped with sprinklers.

## 8. Exposure controls/personal protection

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering

controls

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.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection

Hand protection Wear protective gloves.

Other Wear suitable protective clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment. If engineering controls do

not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved

respirator must be worn.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke. 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

Appearance Clear.
Physical state Liquid.
Form Liquid.
Color Yellow.
Odor Pungent.
Odor threshold Not available.

**pH** 6.5 - 8 (10% in IPA) **Melting point/freezing point** < 24 °F (< -4.44 °C)

Initial boiling point and boiling

range

Flash point

327.2 - 329 °F (164 - 165 °C)

> 141.0 °F (> 60.6 °C) Pensky-Martens Closed Cup

**Evaporation rate** Estimated slower than ethyl ether.

Flammability (solid, gas)

Upper/lower flammability or explosive limits

Explosive limit - lower (%)

Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Estimated heavier than air.

Relative density Not available.

Solubility(ies)

Solubility (water)

Auto-ignition temperature

Decomposition temperature

Viscosity

Not available.

Not available.

Vot available.

100 cP @ 25C

Other information

**Density** 7.88 lb/gal @ 25C

**Pour point** 25 - 27 °F (-3.89 - -2.78 °C)

**VOC** 53 %

Material ID: 6519 Product code: 2144 Version #: 05 Revision date: 08-01-2022 Print date: 08-01-2022

## 10. Stability and reactivity

**Reactivity**The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the

flash point. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

## 11. Toxicological information

#### Information on likely routes of exposure

**Inhalation** May cause irritation to the respiratory system.

**Skin contact** No adverse effects due to skin contact are expected.

**Eye contact** Causes serious eye damage.

**Ingestion** Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye

damage including blindness could result.

#### Information on toxicological effects

Acute toxicity

May cause respiratory irritation. Expected to be a low hazard for usual industrial or commercial

handling by trained personnel.

Product Species Test Results

STEPOSOL SC
Acute

Dermal

LD50 Rabbit 4000 mg/kg ATE mix

Oral

LD50 Rat > 5000 mg/kg ATE mix

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

Serious eye damage/eye

irritation

Causes serious eye damage.

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 1910.1001-1053)

Not listed.

#### 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

Respiratory tract irritation.

Specific target organ toxicity -

repeated exposure

Not applicable.

Aspiration hazard Not applicable.

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# 12. Ecological information

The product is not classified as environmentally hazardous. However, this does not exclude the **Ecotoxicity** 

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability No data is available on the degradability of this product.

No data available. Bioaccumulative potential 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

General The provided transportation classifications are for bulk shipments only and may not be

representative of all package/shipment sizes.

DOT

**UN number** NA1993

**UN proper shipping name** 

Transport hazard class(es)

Combustible Liquid, N.O.S. (Ethyl lactate)

3 Class Subsidiary risk Ш Packing group

Special precautions for user Not available.

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

Not available.

DOT



# 15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

**Toxic Substances Control Act (TSCA)** 

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

Not regulated.

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

Not listed.

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#### SARA 304 Emergency release notification

Not regulated.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

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

#### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

Classified hazard Flammable (gases, aerosols, liquids, or solids)

Serious eye damage or eye irritation categories

Specific target organ toxicity (single or repeated exposure)

# SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

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

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

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

#### **US** state regulations

#### **California Proposition 65**



Taiwan

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.

# 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)	No
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)	No
New Zealand	New Zealand Inventory (NZIoC)	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory \*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

country(s).

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

Taiwan Inventory (TCSI)

Issue date 04-10-2015 08-01-2022 **Revision date** 

Version # 05 **HMIS®** ratings

Health: 3 Flammability: 2

Physical hazard: 0

Health: 3 NFPA ratings

Flammability: 2 Instability: 0

Material name: STEPOSOL SC

Yes

Yes

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

#### **Disclaimer**

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#### **Revision information**

Hazard(s) identification: Disposal Hazard(s) identification: Prevention Hazard(s) identification: Response Hazard(s) identification: Storage

Composition / Information on Ingredients: Disclosure Overrides

HazReg Data: International Inventories