Stepan 5

SAFETY DATA SHEET

1. Identification

Product identifier STEPOSOL DG

Other means of identification

Product code 1558 Recommended use Surfactant

Recommended restrictions For industrial use only. Manufacturer/Importer/Supplier/Distributor information

Manufacturer

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

USA

General 1-847-446-7500 Telephone

E-mail Not available.

1-800-228-5635 **Emergency phone number** Medical

Chemtrec 1-800-424-9300 Chemtrec Int'I +1 703-527-3887

2. Hazard(s) identification

Physical hazards Not classified.

Serious eye damage/eye irritation **Health hazards** Category 1 **Environmental hazards** Hazardous to the aquatic environment, acute Category 2

Hazardous to the aquatic environment,

Category 2

long-term hazard

Not classified. **OSHA** defined hazards

Label elements



Signal word Danger

Hazard statement Causes serious eye damage. Toxic to aquatic life with long lasting effects.

Precautionary statement

Prevention Wear eye/face protection. Avoid release to the environment.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and Response

easy to do. Continue rinsing. Immediately call a poison center/doctor. Collect spillage.

Store away from incompatible materials. Storage

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

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information Not applicable.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Ammonium methyl sulfate*		Proprietary	35 - 45
Fatty alcohol ethoxylate*		Proprietary	35 - 45
Nonionic diluent*		Proprietary	15 - 25

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off

contaminated clothing and wash before reuse.

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

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

Rinse mouth. Get medical attention if symptoms occur. Ingestion

Most important symptoms/effects, acute and

delayed

Indication of immediate

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.

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

medical attention and special treatment needed

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

Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

equipment/instructions

Move containers from fire area if you can do so without risk.

Specific methods General fire hazards

Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

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.

Methods and materials for containment and cleaning up 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. Use water spray to reduce vapors or divert vapor cloud drift. Prevent entry into waterways, sewer, basements or confined areas. 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 release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Do not get this material in contact with eyes. Avoid contact with skin. Avoid prolonged exposure. Avoid contact with clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid release to the environment. Do not empty into drains.

Conditions for safe storage, including any incompatibilities Store in original tightly closed container.

Material ID: 6282 Product code: 1558 Version #: 04 Revision date: 01-24-2020 Print date: 01-24-2020

8. Exposure controls/personal protection

Occupational exposure limits

US. Workplace Environmental Exposure Level (WEEL) Guides

Form Components Value Type Nonionic diluent* **TWA** 10 ma/m3 Aerosol.

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. Eye wash facilities and emergency shower must be available when handling this product.

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 appropriate chemical resistant gloves. Wear appropriate chemical resistant clothing. Other

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment. Thermal hazards Wear appropriate thermal protective clothing, when necessary

General hygiene considerations

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.

Not available. Odor **Odor threshold** Not available.

4.5 - 6.5 (1% in water) < 30.2 °F (< -1 °C) Melting point/freezing point Initial boiling point and boiling > 212 °F (> 100 °C)

range

Flash point > 201.0 °F (> 93.9 °C) Pensky-Martens Closed Cup

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

Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - upper

(%) temperature

NOT APPLICABLE.

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available.

Not Determined or Unknown Vapor pressure Estimated heavier than air. Vapor density

Not available. Relative density

Solubility(ies)

Solubility (water) Not available. Not available. **Auto-ignition temperature Decomposition temperature** Not available. 200 cP @ 25C Viscosity

Other information

8.86 lb/gal @ 25C Density

0 - 2 % Percent volatile

Material name: STEPOSOL DG SDS US

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.

Avoid temperatures exceeding the flash point. Contact with incompatible materials. Conditions to avoid

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contact Causes mild skin irritation. Eve 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. Mild skin irritation. May cause redness and pain.

Information on toxicological effects

May be harmful if swallowed. May be harmful in contact with skin. Acute toxicity

Causes mild skin irritation. Skin corrosion/irritation Causes serious eye damage. Serious eye damage/eye

irritation

Respiratory or skin sensitization

Based on available data, the classification criteria are not met. Respiratory sensitization This product is not expected to cause skin sensitization. Skin sensitization

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

mutagenic or genotoxic.

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

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 classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not applicable.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

Toxic to aquatic life with long lasting effects. **Ecotoxicity** The product is not readily biodegradable. Persistence and degradability

No data available. Bioaccumulative potential Partition coefficient n-octanol / water (log Kow)

Nonionic diluent* -0.92

No data available. Mobility in soil

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

UN number UN3082

UN proper shipping name Environmentally hazardous substance, liquid, N.O.S. (Ammonium Methyl Sulfate)

Transport hazard class(es)

Class 9
Subsidiary risk Packing group III

Environmental hazards Marine Pollutant **Special precautions for user** Not available.

IMDG

UN number UN3082

UN proper shipping name Environmentally hazardous substance, liquid, N.O.S. (Ammonium Methyl Sulfate), MARINE

POLLUTANT

Transport hazard class(es)

Class 9
Subsidiary risk Packing group III
Environmental hazards

Marine pollutant Yes

EmS Not available.

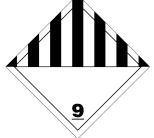
Special precautions for user Not available.

Transport in bulk according to Not available.

Annex II of MARPOL 73/78 and

the IBC Code

IATA; IMDG



Marine pollutant



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.

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

Yes

chemical

Classified hazard categories

Serious eye damage or eye irritation

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

Not regulated.

(SDWA)

US state regulations

California Proposition 65



WARNING: This product can expose you to chemicals including acetaldehyde, which are known to the State of California to cause cancer, and ethylene glycol, which are 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/Carcinogenic substance

1,4-dioxane (CAS 123-91-1) Listed: January 1, 1988 Acetaldehyde (CAS 75-07-0) Listed: April 1, 1988 Ethylene oxide (CAS 75-21-8) Listed: July 1, 1987

California Proposition 65 - CRT: Listed date/Developmental toxin

Ethylene Glycol (CAS 107-21-1) Listed: June 19, 2015 Ethylene oxide (CAS 75-21-8) Listed: August 7, 2009 Methanol (CAS 67-56-1) Listed: March 16, 2012

California Proposition 65 - CRT: Listed date/Female reproductive toxin

Ethylene oxide (CAS 75-21-8) Listed: February 27, 1987

California Proposition 65 - CRT: Listed date/Male reproductive toxin

Ethylene oxide (CAS 75-21-8) Listed: August 7, 2009

International Inventories

Australia Australian Inventory of Chemical Substances (AICS) Canada Domestic Substances List (DSL) Canada Non-Domestic Substances List (NDSL) China Inventory of Existing Chemical Substances in China (IECSC) Japan Inventory of Existing and New Chemical Substances (ENCS) New Zeeland Inventory (NZIGC)	Country(s) or region	Inventory name	On inventory (yes/no)*
Canada Non-Domestic Substances List (NDSL) China Inventory of Existing Chemical Substances in China (IECSC) Japan Inventory of Existing and New Chemical Substances (ENCS)	Australia	Australian Inventory of Chemical Substances (AICS)	Yes
China Inventory of Existing Chemical Substances in China (IECSC) Japan Inventory of Existing and New Chemical Substances (ENCS)	Canada	Domestic Substances List (DSL)	No
Japan Inventory of Existing and New Chemical Substances (ENCS)	Canada	Non-Domestic Substances List (NDSL)	Yes
·	China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Now Zoaland Now Zoaland Inventory (NZIoC)	Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
New Zealand Inventory (NZIOC)	New Zealand	New Zealand Inventory (NZIoC)	No

Country(s) or region Inventory name On inventory (yes/no)*

Philippines Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

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

 Issue date
 10-08-2014

 Revision date
 01-24-2020

Version # 04

HMIS® ratings Health: 3

Flammability: 1 Physical hazard: 0

NFPA ratings Health: 3

Flammability: 1 Instability: 0

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Revision informationThis document has undergone significant changes and should be reviewed in its entirety.

Material name: STEPOSOL DG SDS US