# Stepan 5

# SAFETY DATA SHEET

## 1. Identification

**Product identifier** STEOL CS-230

Other means of identification

**Product code** 2314 Recommended use Surfactant

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

Manufacturer

Stepan Company Company name Address 1101 Skokie Blvd.

Northbrook, IL 60062

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'l +1 703-527-3887

2. Hazard(s) identification

Not classified. **Physical hazards** 

Skin corrosion/irritation **Health hazards** Category 2

> Serious eye damage/eye irritation Category 1

**Environmental hazards** Hazardous to the aquatic environment, acute Category 2

Hazardous to the aquatic environment, Category 3

long-term hazard

**OSHA** defined hazards Not classified.

Label elements



Signal word Danger

Causes skin irritation. Causes serious eye damage. Toxic to aquatic life. Harmful to aquatic life **Hazard statement** 

with long lasting effects.

**Precautionary statement** 

Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves/eye Prevention

protection/face protection.

Response IF ON SKIN: Wash with plenty of soap and water. Specific treatment (see this label). If skin

> irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. 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.

**Storage** Store away from incompatible materials.

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

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

## 3. Composition/information on ingredients

#### **Mixtures**

Material name: STEOL CS-230

Material ID: 1397 Product code: 2314 Version #: 06 Revision date: 09-18-2023 Print date: 09-18-2023

Chemical name	Common name and synonyms	CAS number	%
Water		7732-18-5	73 - 75
Alkyl (C10-16) Ether sulfate, sodium salt (Alternative CAS 68891-38-3)		68585-34-2	25 - 27
Alcohols, C12-14, ethoxylated		68439-50-9	0 - 2

#### 4. First-aid measures

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

**Skin contact**Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation

occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

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. Do not induce vomiting without advice from

poison control center.

Symptoms may be delayed.

Most important symptoms/effects, acute and

symptoms/effects, acute and delayed

Indication of immediate medical attention and special

treatment needed
General information

Provide general supportive measures and treat symptomatically. Keep victim under observation.

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

damage including blindness could result. Skin irritation. May cause redness and pain.

Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the

material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

## 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.

During fire, gases hazardous to health may be formed.

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

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

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. 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. Prevent product from entering drains. 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 taste or swallow. Do not get this material in contact with eyes. Avoid contact with skin. Avoid contact with clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Avoid release to the environment. Do not empty into drains.

Material name: STEOL CS-230

SDS US

Conditions for safe storage, including any incompatibilities

Store in original tightly closed container.

## 8. Exposure controls/personal protection

**Biological limit values**No biological exposure limits noted for the ingredient(s).

Appropriate engineering Ensure adequate ventilation, especially in confined areas. Eye wash facilities and emergency

controls 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).

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Other Wear appropriate chemical resistant clothing.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Not available.

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 Not available.

Odor Not available.

Odor threshold Not available.

**pH** 6.5 - 8.5 (10% aqueous)

Melting point/freezing point 28.4 °F (-2 °C)
Initial boiling point and boiling > 212 °F (> 100 °C)

range

Flash point None (Cleveland Open Cup)

Evaporation rate Estimated slower than ethyl ether

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressureNot determined or unknownVapor densityEstimated lighter than air

Relative density Not available.

Solubility(ies)

Solubility (water)

Auto-ignition temperature

Decomposition temperature

Viscosity

Not available.

Not available.

373 cP @ 25C

Other information

Density 8.70 lb/gal @ 25C

Fire point None (Cleveland Open Cup)

Percent volatile 73 - 75 % Pour point 33.8 °F (1 °C)

## 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.

Material name: STEOL CS-230 SDS US

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

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

flash point. Contact with incompatible materials.

Strong oxidizing agents. Strong acids.

Incompatible materials

Hazardous decomposition

products

Upon decomposition, this product may yield sulfur dioxide and oxides of sulfur.

## 11. Toxicological information

Information on likely routes of exposure

Prolonged inhalation may be harmful. Inhalation

Skin contact Causes 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 Not available.

#### Information on toxicological effects

**Acute toxicity** 

**Product Test Results Species** STEOL CS-230

**Acute** 

Dermal

LD50 Rabbit > 2000 mg/kg

Oral

Rat LD50 > 2000 mg/kg

Causes skin irritation. Skin corrosion/irritation

Serious eye damage/eye

irritation

Causes serious eye damage.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

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

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

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 Contains no ingredient listed as toxic to reproduction

Specific target organ toxicity -

single exposure

Not applicable.

Specific target organ toxicity -

repeated exposure

Not applicable.

**Aspiration hazard** Not applicable.

12. Ecological information

Toxic to aquatic life. Harmful to aquatic life with long lasting effects. **Ecotoxicity** 

Persistence and degradability Readily biodegradable. No data available. Bioaccumulative potential Mobility in soil No data available.

Material name: STEOL CS-230

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 in accordance with all applicable 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 Not available.

Annex II of MARPOL 73/78 and

the IBC Code

## 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 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes

chemical

Skin corrosion or irritation

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)

Material name: STEOL CS-230 SDS US

#### **US state regulations**

#### California Proposition 65



WARNING: This product can expose you to chemicals including formaldehyde, which are known to the State of California to cause cancer, and methanol, 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 Ethylene oxide (CAS 75-21-8) Listed: July 1, 1987 Formaldehyde (CAS 50-00-0) Listed: January 1, 1988

California Proposition 65 - CRT: Listed date/Developmental toxin

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**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AIIC)	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
New Zealand	New Zealand Inventory (NZIoC)	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

(PICCS)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

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

Issue date 07-09-2014 **Revision date** 09-18-2023

Version # 06

**HMIS®** ratings Health: 2

Flammability: 1

Physical hazard: 0

NFPA ratings Health: 2

> Flammability: 1 Instability: 0

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or furnishing of any information in this SDS, or in any other way related (directly or indirectly) to this SDS. The receipt and use of this information constitutes consent to these terms and conditions.

Material name: STEOL CS-230 SDS US

Yes

<sup>\*</sup>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).

#### **Revision information**

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

Composition / Information on Ingredients: Disclosure Overrides
First-aid measures: Most important symptoms/effects, acute and delayed
Handling and storage: Precautions for safe handling
Exposure controls/personal protection: Respiratory protection

Toxicological information: Respiratory sensitization

HazReg Data: International Inventories

Material name: STEOL CS-230 SDS US