Stepan

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name or designation

STEOL CS-230 HA

of the mixture

UFI: 54JP-TEPV-GY0J-EN0R, (Only for EU)

Synonyms None. 7502EU **Product code**

16-November-2017 Issue date

0.3 Version number

15-March-2023 **Revision date** 28-April-2022 Supersedes date

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Industrial use

Anionic surfactant

Mixture for further formulation

None known. Uses advised against

1.3. Details of the supplier of the safety data sheet

Stepan UK Limited

Address Bridge Str., Stalybridge

Cheshire, SK15 1PH

United Kingdom

+44(0) 161 338 9000 **Telephone** +44(0) 161 303 2991 Fax E-mail sds.contact@stepan.com

See email address **Contact person**

1.4. Emergency telephone number

General in EU 112 (Available 24 hours a day. SDS/Product information may not be available for

the Emergency Service.)

Guy's Hospital Poisons

Unit

(00 44)(1 71) 6 35 91 91

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards

Skin corrosion/irritation Category 2 H315 - Causes skin irritation. Serious eye damage/eye irritation Category 1 H318 - Causes serious eye

damage.

Environmental hazards

H412 - Harmful to aquatic life with Hazardous to the aquatic environment, Category 3

long lasting effects. long-term aquatic hazard

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

UFI: 54JP-TEPV-GY0J-EN0R, (Only for EU)

Contains: Alcohols, C12-14, ethoxylated, sulfates, sodium salts

Hazard pictograms

Signal word Danger

Material name: STEOL CS-230 HA SDS GREAT BRITAIN

Material ID: 12179 Product code: 7502EU Version No.: 03 Revision date: 15-March-2023 Print date: 15-March-2023

Hazard statements

Causes skin irritation. H315

Causes serious eye damage. H318

Harmful to aquatic life with long lasting effects. H412

Precautionary statements

Prevention

Wash thoroughly after handling. P264

Wear protective gloves/protective clothing/eye protection/face protection. P280

Response

IF ON SKIN: Wash with plenty of soap and water. P302 + P352

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present P305 + P351 + P338

and easy to do. Continue rinsing

Immediately call a POISON CENTRE/doctor. P310

Storage Disposal

> Dispose of contents/container in accordance with local/regional/national/international regulations. P501

Supplemental label information None.

2.3. Other hazards This mixture does not contain substances that are assessed to be vPvB / PBT according to

Regulation (EC) No 1907/2006, Annex XIII.

The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU)

2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

Mixture

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	20 - < 30	68891-38-3 500-234-8	-	-	
Specific Concentration Limit			l318, Aquatic Chronic 3;H41 Eye Irrit. 2;H319: 5 % <= C <		

Classification: Met. Corr. 1;H290, Skin Corr. 1A;H314, Eye Dam. 1;H318

Composition comments

The full text for all H-statements is displayed in section 16.

See special hints in section 15.

SECTION 4: First aid measures

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

protect themselves.

4.1. Description of first aid measures

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

Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get Skin contact

medical advice/attention. Wash contaminated clothing 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

4.2. Most important symptoms and effects, both acute and

delayed

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

4.3. Indication of any immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards No unusual fire or explosion hazards noted.

5.1. Extinguishing media

Suitable extinguishing

media

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media

Do not use water jet.

Material name: STEOL CS-230 HA Material ID: 12179 Product code: 7502EU Version No.: 03 Revision date: 15-March-2023 Print date: 15-March-2023 SDS GREAT BRITAIN

5.2. Special hazards arising from the substance or mixture In the event of fire the following can be released: Sulphur Oxides (SOx). Carbon oxides (COx)

5.3. Advice for firefighters

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

Special fire fighting

procedures

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

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

Wear appropriate personal protective equipment.

For emergency responders Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the

SDS.

6.2. Environmental precautions Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all

environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into

drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up Prevent product from entering drains.

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. 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.

6.4. Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe

handling

Provide adequate ventilation. Do not get this material in contact with eyes. Avoid contact with eyes.

skin and clothing. Wear appropriate personal protective equipment. Avoid release to the

Store in tightly closed original container in a dry, cool and well-ventilated place.

environment. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

7.3. Specific end use(s) Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

UK. EH40 Workplace Exposure Limits (WELs)

Components	Туре	Value
Sodium hydroxide (CAS 1310-73-2)	STEL	2 mg/m3

Biological limit values

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

Recommended monitoring

procedures

Follow standard monitoring procedures.

Derived no effect levels (DNELs)

General Population

Components	Value	Assessment factor	Notes
Alcohols, C12-14, ethoxylated, sulfates, so	odium salts (CAS 68891-38-3)		
Long-term, Local, Dermal	79 μg/cm2		
Long-term, Systemic, Dermal	1650 mg/kg bw/day	20	Repeated dose toxicity
Long-term, Systemic, Inhalation	52 mg/m3	5	Repeated dose toxicity
Long-term, Systemic, Oral	15 mg/kg bw/day	20	Repeated dose toxicity
Sodium hydroxide (CAS 1310-73-2)			
Short-term, Systemic, Inhalation	1 mg/m3	1	respiratory tract irritation

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Components	Value	Assessment factor	Notes
Alcohols, C12-14, ethoxylated, sulfates, so	odium salts (CAS 68891-38-3)		
Long-term, Local, Dermal	132 µg/cm2		
Long-term, Systemic, Dermal	2750 mg/kg bw/day	12	Repeated dose toxicity
Long-term, Systemic, Inhalation	175 mg/m3	3	Repeated dose toxicity
Sodium hydroxide (CAS 1310-73-2)			
Short-term, Systemic, Inhalation	1 mg/m3	1	respiratory tract irritation

Predicted no effect concentrations (PNECs)

Components	Value	Assessment factor Notes	
Alcohols, C12-14, ethoxylated, sulfates	s, sodium salts (CAS 68891-3	8-3)	
Freshwater	0.24 mg/l	5	
Intermittent releases	0.071 mg/l		
Marine water	0.024 mg/l	50	
Sediment (freshwater)	0.917 mg/kg		
Sediment (marine water)	0.092 mg/kg		
Soil	7.5 mg/kg	100	
STP	10 g/l	1	

8.2. Exposure controls

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

General information Use personal protective equipment as required. Personal protection equipment should be chosen

according to the CEN standards and in discussion with the supplier of the 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. Suitable gloves can be recommended by the glove

supplier. PVC gloves are recommended.

- Other Wear appropriate chemical resistant clothing.

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

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Hygiene measures 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.

Environmental exposure

controls

Inform appropriate managerial or supervisory personnel of all environmental releases.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state Liquid. Form Liquid.

Colour Colourless to light yellow.

Odour Characteristic.
Odour threshold Not available.

pH 10.5 - 11.5 @ 100 g/l (20°C)

Melting point/freezing point < 5 °C (< 41 °F)
Initial boiling point and boiling > 100 °C (> 212 °F)

range

Flash point Not applicable
Evaporation rate Not available.
Flammability (solid, gas) Not applicable.

Linear/Lewer flammability or explanate limits.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available.

Explosive limit - upper Not available.

(%)

Not available. Vapour pressure Vapour density Not available. 1.03 @ 20 °C Relative density

Solubility(ies)

Soluble Solubility (water) Not available. Auto-ignition temperature Not available. **Decomposition temperature** Not available. Viscosity Not explosive. **Explosive properties** Oxidising properties Not oxidising.

9.2. Other information

Kinematic viscosity 97 mm2/s @ 20°C

SECTION 10: Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. 10.1. Reactivity

Material is stable under normal conditions. 10.2. Chemical stability

10.3. Possibility of hazardous

10.4. Conditions to avoid

reactions

No dangerous reaction known under conditions of normal use.

To avoid thermal decomposition, do not overheat. Contact with incompatible materials.

10.5. Incompatible materials Avoid contact with acids and oxidising substances. Alkalis.

10.6. Hazardous At thermal decomposition temperatures, carbon monoxide and carbon dioxide. Sulphur Oxides

decomposition products (SOx).

Possible decomposition products in case of hydrolysis are: NaHSO4

SECTION 11: Toxicological information

Occupational exposure to the substance or mixture may cause adverse effects. **General information**

Information on likely routes of exposure

No adverse effects due to inhalation are expected. Inhalation

Eye contact Causes serious eye damage.

Skin contact Causes skin irritation.

Ingestion May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of

occupational exposure.

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred **Symptoms**

vision. Permanent eye damage including blindness could result. Skin irritation. May cause

redness and pain.

11.1. Information on toxicological effects

Based on available data, the classification criteria are not met. Acute toxicity

Product Species		Test Results	
STEOL CS-230 HA			
<u>Acute</u>			
Dermal			
	Rat	> 5000 mg/kg (estimated)	
Oral			
LD50 Rat		> 5000 mg/kg (estimated)	
Components Species		Test Results	

Alcohols, C12-14, ethoxylated, sulfates, sodium salts (CAS 68891-38-3)

Acute Dermal

LD50 Rat > 2000 mg/kg (OECD 402)

Oral

LD50 Rat 2870 mg/kg (OECD 401)

Subchronic

Oral

NOAEL Rat > 225 mg/kg bw/day, 90 days (OECD 408)

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye Causes serious eye damage. irritation Based on available data, the classification criteria are not met. Respiratory sensitisation Skin sensitisation Based on available data, the classification criteria are not met. Germ cell mutagenicity Based on available data, the classification criteria are not met. Carcinogenicity Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Reproductive toxicity Based on available data, the classification criteria are not met. Specific target organ toxicity single exposure Specific target organ toxicity -Based on available data, the classification criteria are not met. repeated exposure **Aspiration hazard**

Mixture versus substance

Based on available data, the classification criteria are not met.

No information available.

information

SECTION 12: Ecological information

12.1. Toxicity	Harmful to	o aquatic life with long lasting effects.	
Product		Species	Test Results
STEOL CS-230 HA			
Aquatic			
Acute			
Algae	EC50	Algae	> 92.3 - < 138.5 mg/l, 72 hours (estimated)
Crustacea	EC50	Daphnia	> 24.6 - < 37 mg/l, 48 hours (estimated
Fish	LC50	Fish	> 23.6 - < 35.5 mg/l, 96 hours (estimated)
Chronic			
Algae	NOEC	Algae	> 3.16 - < 4.75 mg/l, 72 hours (estimated)
Crustacea	NOEC	Daphnia	> 0.9 - < 1.35 mg/l, 21 days (estimated
Fish	NOEC	Fish	> 0.46 - < 0.7 mg/l, 28 days (estimated
Components		Species	Test Results
Alcohols, C12-14, ethoxylate	ed, sulfates, sodiu	m salts (CAS 68891-38-3)	
Aquatic			
Acute			
Algae	EC50	Algae	27.7 mg/l, 72 hours (OECD 201)
Crustacea	EC50	Daphnia magna	7.4 mg/l, 48 hours (OECD 202)
Fish	LC50	Danio rerio	7.1 mg/l, 96 hours (OECD 203)
Chronic			
Algae	NOEC	Algae	0.95 mg/l, 72 h
Crustacea	NOEC	Daphnia magna	0.27 mg/l, 21 days (OECD 211)
Fish	NOEC	Oncorhynchus mykiss	0.14 mg/l, 28 days (OECD 215)
Sodium hydroxide (CAS 131	0-73-2)		
Aquatic			
Acute			
Crustacea	EC50	Daphnia	40.4 mg/l, 48 hours
Fish	LC50	Fish	> 35 - < 189 mg/l, 96 hours
12.2. Persistence and degradability	Readily b	iodegradable.	
Biodegradability Percent Degradati	ion (Aerobic Biod	degradation)	

Alcohols, C12-14, ethoxylated, sulfates, sodium salts

100 % (EU Method C.4-A) Test Duration: 28 days >= 77 % (OECD 301 D) Test Duration: 28 days

12.3. Bioaccumulative potential No data available.

Partition coefficient n-octanol/water (log Kow)

> Alcohols, C12-14, ethoxylated, sulfates, sodium salts 0.3 @ 23°C (OECD 123)

No data available. 12.4. Mobility in soil

Adsorption

Soil/Sediment Sorption - Log Koc

Alcohols, C12-14, ethoxylated, sulfates, sodium salts 0.34

12.5. Results of PBT and vPvB

12.6. Other adverse effects

This mixture does not contain substances that are assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.

assessment

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

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste 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).

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

EU waste code The Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Disposal methods/information Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Dispose in accordance with all applicable regulations. Special precautions

Not available.

SECTION 14: Transport information

ADR

14.1. UN number Not available. Not available. 14.2. UN proper shipping

14.3. Transport hazard class(es)

Class Not available.

Subsidiary risk

Not available. Hazard No. (ADR) Tunnel restriction code Not available. Not available. 14.4. Packing group

14.5. Environmental hazards No.

14.6. Special precautions Not available.

for user

RID

14.1. UN number Not available.

14.2. UN proper shipping

name

14.3. Transport hazard class(es)

Not available. Class

Subsidiary risk

14.4. Packing group Not available.

14.5. Environmental hazards No.

14.6. Special precautions Not available.

for user

IATA

14.1. UN number Not available. Not available.

14.2. UN proper shipping

name

14.3. Transport hazard class(es)

Not available. Class

Subsidiary risk

Not available. 14.4. Packing group

14.5. Environmental hazards No.

Not available. 14.6. Special precautions

for user

IMDG

14.1. UN number Not available.14.2. UN proper shipping Not available.

name

14.3. Transport hazard class(es)

Class Not available.

Subsidiary risk

14.4. Packing group Not available.

14.5. Environmental hazards

Marine pollutant No.

EmS Not available.

14.6. Special precautions Not available.

for user

Segregation group: None

14.7. Transport in bulk Not established.

according to Annex II of MARPOL 73/78 and the IBC

Code

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Retained direct EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Not listed

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Not listed.

Other regulations

This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended.

Alternative CAS (purpose of safety) of:

68891-38-3 = 68585-34-2

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) N° 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them at their direct request or at the request of a detergent manufacturer.

15.2. Chemical safety assessment

Exposure scenarios relevant for this material are annexed and distributed as seperate document to this eSDS.

SECTION 16: Other information

List of abbreviations

REACH: Registration, Evaluation and Authorization of Chemicals (REGULATION (EC) No 1907/2006)

CLP: Classification, Labeling and Packaging REGULATION (EC) No 1272/2008

CAS: Chemical Abstract Service

EINECS: European Inventory of Existing Commercial Chemical Substances

PBT: Persistent, bioaccumulative, toxic vPvB: very Persistent, very Bioaccumulative

BLV: Biological Limit Value LD50: Lethal Dose 50%

EC50: Effective Concentration 50% LC50: Lethal Concentration 50% IC50: Inhibition Concentration 50%

ES: Exposure scenario CSR: Chemical Safety Report **DNEL: Derived No Effect Level**

PNEC: Predicted No Effect Concentration

ADR: European agreement concerning the international carriage of dangerous goods by road

RID: Regulations concerning the international carriage of dangerous goods by rail

IMDG Code: International Maritime Dangerous Goods Code

IATA: International Air Transport Association

References

Not available.

Information on evaluation method leading to the

classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any H-statements not written out in full under Sections 2 to 15

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

Product and Company Identification: EU Poison Centre SECTION 2: Hazards identification: Prevention

SECTION 2: Hazards identification: Response

SECTION 2: Hazards identification: Supplemental label information

Composition / Information on Ingredients: Ingredients Physical & Chemical Properties: Multiple Properties SECTION 11: Toxicological information: Acute toxicity

SECTION 12: Ecological information: 12.3. Bioaccumulative potential

HazReg Data: Europe - EU

Training information

Disclaimer

Revision information

Follow training instructions when handling this material.

Stepan UK Limited cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to

assume liability for loss, injury, damage or expense due to improper use.