

SAFETY DATA SHEET



1. Identification

Product identifier STEOL CS-230 PCK SURFACTANT

Other means of identification

Product code 62499

Recommended use Surfactant

Recommended restrictions For industrial use only.

Manufacturer/Importer/Supplier/Distributor information

Supplier:

Company Name Voyageur Soap & Candle Co. LTD

Address Unit 14 - 19257 Enterprise Way
Surrey BC V3S 6J8

Telephone 1 (800) 758-7773

Emergency phone Chemtrec 1(800) 424-9300

2. Hazard(s) identification

Physical hazards Not classified

Health hazards Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 1

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

Hazardous to the aquatic environment, Category 3
long-term hazard

OSHA defined hazards Not classified

Label elements



Signal word	Danger
Hazard statement	Causes skin irritation. Causes serious eye damage. Toxic to aquatic life. Harmful to aquatic life with long lasting effects.
Precautionary statement	
Prevention	Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves/eye protection/face protection.
Response	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. Specific treatment (see this label). If skin irritation occurs: get medical advice/attention. Take off contaminated clothing and wash before reuse. IF ON SKIN: Wash with plenty of soap and water
Storage	Store in a well-ventilated place. Keep cool.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise	None known
Classified (HNOC)	
Supplemental information	None

3. Composition/information on ingredients

Mixtures

Chemical Name	CAS number	%
Water	7732-18-5	67 – 72
Alkyl (C10-16) Ether Sulfate, Sodium Salt	68585-34-2	27 – 28
Alcohols, C10-16, ethoxylated	68002-97-1	0.5 – 1.5
Other components below reportable levels		1.3328

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 if irritation develops or persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur. Do not induce vomiting without advice from poison control center.

Most important Symptoms/effects, acute And delayed Symptoms may include stinging, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

Indication of immediate Medical attention and Special treatment needed Provide general supportive measures and treat symptomatically. Thermal burns: flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed

General information 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. Firefighting measures

Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂)

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

General fire hazards 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 Avoid release to the environment. Contact local authorities in case of

precautions 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 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. Wash contaminated clothing before reuse. Avoid release to the environment. Do not empty into drains.

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

Skin protection

Hand protections Wear appropriate chemical resistant gloves

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

General hygiene considerations When using, do not eat, drink or 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 to slightly hazy

Physical state Liquid

Form Liquid

Colour Not available

Odor Not available

Odor threshold Not available

pH 6.5 – 7.5 (10% in water)

Melting point/freezing point	28.4°F (-2°C)
Initial boiling point and boiling range	>212°F (>100°C)
Flash point	>201.0°F (>93.9°C) Pensky-Martens Closed Cup
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Upper/lower flammability or explosive limits	
Flammability limit – lower (%)	Not available
Flammability limit – upper (%)	Not available
Explosive limit – lower (%)	Not available
Explosive limit – upper (%)	Not available
Vapor pressure	Not available
Vapor density	Not available
Relative density	Not available
Solubility(ies)	
Solubility (water)	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	2000 – 5000 cP @25°C
Other information	
Percent volatile	67 – 72 %
Pour point	33.8°F (1°C)
Specific gravity	1.0457 @25°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
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	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	Prolonged inhalation may be harmful
Skin contact	Causes skin irritation
Eye 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	Species	Test Results
STEOL CS-230 PCK		
Acute		
Dermal		
LD50	Rat	>= 2 g/kg
Oral		
LD50	Rat	>= 2g/kg
Skin corrosion/irritation	Causes skin 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 1910.1001-1052)		
Not regulated		
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

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

Product	Species	Test Results
STEOL CS-230 PCK		
Aquatic		
<i>Acute</i>		
Fish	LC50 Fish	2.3 mg/l, 96 hours
<i>Chronic</i>		
Algae	NOEC Algae	0.9 mg/l, 72 hours
Crustacea	NOEC Crustacea	0.34 mg/l, 21 days
Fish	NOEC Fish	0.12 mg/l, 28 days

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 warning 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

Not available

15. Regulatory information

US Federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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 – Yes

Classified hazard categories – Skin corrosion or irritation

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® 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 Ethylene oxide, which are known to the state of California to cause cancer and 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

California Proposition 65 – CRT: Listed date/Developmental toxin

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

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, 1987

International Inventories

Country(s) or region	Inventory Name	On Inventory
Australia	Australian Inventory of Chemical Substances	Yes
Canada	Domestic Substances List	Yes
Canada	Non-Domestic Substances List	No
China	Inventory of Existing Chemical Substances in China	Yes
Japan	Inventory of Existing and New Chemical Substances	Yes
Korea	Existing Chemical List	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances	Yes
Taiwan	Taiwan Inventory	Yes
United States & Puerto Rico	Toxic Substances Control Act 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 08-10-2018

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End of Safety Data Sheet