

SAFETY DATA SHEET

1 Identification of the substance or preparation and of the company/undertaking

1.1 Product identifier

Product Name: CAT SULPHITE L (CSL)
Datasheet Number: 575662-r 1. 0. 0
Product Part Number: 575662 (25 liter)
Head Office:: Wilhelmsen Ships Service AS
Address: Strandveien 20, N1324 Lysaker, Norway, Tel(+47) 67 58 45 50

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

Boiler water treatment

1.3 Details of the supplier of the safety data sheet

Name of Supplier: Wilhelmsen Ships Service AS
Address of Supplier: Willem Barentszstraat 50
3165AB Rotterdam
The Netherlands
Telephone: +31 10 4877 777
Fax: +31 10 4877 888
Responsible Person: Patrick Rijdsijk, Product HSE Manager, Tel.:+31 6 349 440 35
Email: patrick.rijdsijk@wilhelmsen.com

1.4 Emergency telephone number

****ONL TO BE USED IN CASE OF AN INCIDENT****

NCEC: +44 1865 407333, CHEMTREC (800) 424 9300
American Chemistry Council +1 703 527 3887,
Greece +30 210 7793777
Australia: +61 3 9630 0998

2 Hazards identification

2.1 Classification of the substance or mixture

- Council Directive 1999/45/EEC Classification, packing and labelling of dangerous preparations.
- Carcinogen, category 2

2.2 Label elements



Toxic

Risk Phrases

- May cause cancer by inhalation (R49)
- Harmful if swallowed (R22)
- Contact with acids liberates toxic gas (R31)

Safety Phrases

- Keep away from acid (S14)
- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice (S26)
- Wear suitable gloves and eye/face protection (S37/39)
- If swallowed seek medical advice immediately and show this container or label (S46)

2.3 Other hazards

- Odour: Pungent odour, Strong smell of sulphur

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2 Hazards identification (....)

- Appearance: Liquid, pink, soluble in water
- Contact with eyes: Causes severe irritation
- Contact with skin: Causes redness and irritation

3 Composition/information on ingredients

3.1 Mixtures

Chemical Name	Concentration	CAS Number	EC Number	R/H Phrases*	Symbols
sodium bisulphite	30-60%	7631-90-5	231-548-0	22, 31	Xn
cobalt sulphate	0.01-0.25%	10124-43-3	233-334-2	49, 22, 42/43, 50/53, 60, 68	T, N Carc. Cat. 2;

*See Section 16

4 First aid measures

4.1 Description of first aid measures

- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- Contaminated clothing should be laundered before reuse
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- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
-
- IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
- Give plenty of water to drink
- Never make an unconscious person vomit or drink fluids
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- IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
-
- When in doubt or symptoms persist, seek medical attention

4.2 Most important symptoms and effects, both acute and delayed

- Possible redness and irritation of affected areas
- Can cause damage to the intestines

4.3 Indication of immediate medical attention and special treatment needed

5 Fire-fighting measures

5.1 Extinguishing media

- Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions

5.2 Special hazards arising from the substance or mixture

- Smoke from fires is toxic

5.3 Advice for firefighters

- Wear chemical protection suit and positive-pressure breathing apparatus

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Wear protective clothing as per section 8

6.2 Environmental Precautions

- Do not allow to enter public sewers and watercourses

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6 Accidental release measures (....)

6.3 Methods and material for containment and cleaning up

- Absorb spillage in inert material and shovel up
- Flush spill area with copious amounts of water

6.4 Reference to other sections

7 Handling and storage

7.1 Precautions for safe handling

- See Section 8
- Avoid contact with acid
- Avoid contact with skin and eyes (S24/25)
- Eyewash bottles should be available

7.2 Conditions for safe storage, including any incompatibilities

- Keep only in the original container in a cool, well ventilated place away from acid (S3/9/14/49)
- Protect from frost

7.3 Specific end use(s)

8 Exposure controls/personal protection

8.1 Control parameters

- TLV (TWA) 5 mg/m³ (Sodium bisulphite)

8.2 Exposure controls

- The undiluted product must not be used in a confined space without good ventilation

Occupational exposure controls

- Wear suitable protective clothing, including eye/face protection and gloves (plastic or rubber are recommended)
- Respiratory protection may be required under exceptional circumstances when excessive air contamination exists



Goggles



Gloves



Suit



No Smoking

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Odour: Pungent odour, Strong smell of sulphur
- Appearance: Liquid, pink, soluble in water
- pH 4-6 at 10 % concentration
- Boiling point >100 °C at 760 mm /Hg
- Vapour pressure - not known
- Freezing point <0 °C at 760 mm/Hg
- Completely soluble in water
- Specific gravity (water=1) 1.35
- Non combustible

9.2 Other information

- None
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10 Stability and reactivity

10.1 Reactivity

- This article is considered stable under normal conditions
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10 Stability and reactivity (....)

10.2 Chemical stability

- Considered stable under normal conditions

10.3 Possibility of hazardous reactions

- No hazardous reactions known if used for its intended purpose

10.4 Conditions to avoid

- Avoid overheating

10.5 Incompatible materials

- Incompatible with acid
- Incompatible with oxidizing substances

10.6 Hazardous Decomposition Products

- Decomposition products may include sulphur oxides
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11 Toxicological information

11.1 Information on toxicological effects

- LD50 (oral, rat) 2 mg/kg
- (NaHSO₃)

Inhalation

- Vapours or aerosols may cause irritation of eyes, nose and respiratory tract
- May cause cancer by inhalation (R49)

Contact with skin

- Causes irritation

Contact with eyes

- Causes redness and irritation

Ingestion

- Harmful if swallowed (R22)
- Can cause damage to the intestines

Carcinogenicity

- Cobalt sulphate:
 - May cause cancer by inhalation (R49)
 - Category 2 Carcinogen
-

12 Ecological information

12.1 Toxicity

- May cause acute effects in the aquatic environment

12.2 Persistence and degradability

- Its main ingredients will either dissolve rapidly and dissociate in water or are readily/inherently biodegradable.
- Degrades rapidly on exposure to air

12.3 Bioaccumulation Potential

- Cobalt is known to bioaccumulate.

12.4 Mobility in soil

- Completely soluble in water

12.5 Results of PBT and vPvB assessment

12.6 Other Adverse Effects

- No environmental problems are expected when the product is used / handled correctly. In its intended use, the product will not be released into the environment.
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13 Disposal considerations

CAT SULPHITE L (CSL)

13 Disposal considerations (....)

13.1 Waste treatment methods

- Do not discharge into drains or the environment, dispose to an authorised waste collection point
- Disposal should be in accordance with local, state or national legislation

Classification

- This material and/or its container must be disposed of as hazardous waste
 - EU Waste class: 06.03
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14 Transport information



Corrosive

14.1 UN Number

- UN2693

14.2 UN Proper Shipping Name

- Bisulfites, aqueous solution, n.o.s. (sodium bisulfite)

14.3 Transport hazard class(es)

- 8

14.4 Packing group

- III

14.5 Environmental hazards

- Presents little or no hazard to the environment

14.6 Special precautions for user

- Forbidden on passenger aircraft

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

- Not applicable

Other information

Road/Rail (ADR/RID)

Proper Shipping Name:	Bisulfites, aqueous solution, n.o.s. (sodium bisulfite)		
ADR UN No.:	UN2693	ADR Hazard Class:	8
ADR Packing Group:	III	ADR subrisk:	n/a
ADR Flashpoint:	n/a		

Sea (IMDG)

Proper Shipping Name:	Bisulfites, aqueous solution, n.o.s. (sodium bisulfite)		
IMDG UN No.:	UN2693	IMDG Hazard Class.:	8
IMDG Pack Group.:	III	IMDG EmS:	F-A, S-B
IMDG subrisk:	n/a	IMDG Flashpoint:	n/a

Air (ICAO/IATA)

Proper Shipping Name:	Bisulfites, aqueous solution, n.o.s. (sodium bisulfite)		
ICAO Un No.:	UN2693	ICAO Hazard Class.:	8
ICAO Packing Group.:	III	ICAO subrisk:	n/a
ICAO Flashpoint:	n/a		

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14 Transport information (....)

DOT / CFR (US Department of Transportation)

DOT Proper Shipping Name:	Bisulfites, aqueous solution, n.o.s. (sodium bisulfite)		
Hazardous Material:	sodium bisulfite		
Hazard Class:	8	Identification Number:	UN2693
Product RQ (lbs):	7700	DOT subrisk:	n/a
DOT Flashpoint:	n/a		

15 Regulatory information

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

- This Safety Data Sheet has been prepared in accordance with article 31 and annex II in REACH and Directive 453/2010/EU.
- This Safety Data Sheet is provided in compliance with The Dangerous Preparations Directive (88/379/EEC)
- This Safety Data Sheet is provided in compliance with The Dangerous Substances Directive (67/548/EEC)

15.2 Chemical Safety Assessment

None

16 Other information

Text of R and S phrase codes used in this safety data sheet:- R22: Harmful if swallowed; R31: Contact with acids liberates toxic gas; R42/43: May cause sensitisation by inhalation and skin contact; R49: May cause cancer by inhalation; R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment; R60: May impair fertility; R68: Possible risk of irreversible effects.

The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents

The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product's properties

The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other application(s) without seeking advice from manufacturer

