

COOL-D33

Safety Data Sheet

according to Regulation (EU) 2015/830

Issue date: 8/3/2022 Revision date: 8/3/2025

Version: 1.2

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

1.1. Product identifier

Product form : Mixture
Trade name : COOL-D33
Product code : COOL-D33
Product group : Trade product

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Biodispersant

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

ImproChem(Pty) Ltd T/A AECI Water
1 Wharhirst Road
Umbogintwini - South Africa
T +27(31) 949 8200

1.4. Emergency telephone number

Emergency number : 0800 SPILLS or 0800 774557

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, Category 2 H315

Serious eye damage/eye irritation, Category 2 H319

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice. Causes serious eye irritation. Causes skin irritation.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS07

Signal word (CLP) : Warning
Hazard statements (CLP) : H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
Precautionary statements (CLP) : P264 - Wash hands, forearms and face thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P337+P313 - If eye irritation persists: Get medical advice/attention.

Labelling according to Directive 67/548/EEC or 1999/45/EC

2.3. Other hazards

COOL-D33

Safety Data Sheet

according to Regulation (EU) 2015/830

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
SODIUM LIGNOSULPHONATE	(CAS-No.) 68131-31-7 (EC-No.) 268-613-8	30 – 45	Not classified
DIETHYLENE GLYCOL	(CAS-No.) 111-46-6 (EC-No.) 203-872-2 (EC Index-No.) 603-140-00-6 (REACH-no) 01-2119457857-21	10 – 20	Acute Tox. 4 (Oral), H302
DIOCTYL SULFOSUCCINATE SODIUM SALT	(CAS-No.) 577-11-7 (EC-No.) 209-406-4	5 – 15	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Dam. 1, H318
POLY(ETHYLENE GLYCOL)-BLOCK-POLY(PROPYLENE GLYCOL)-BLOCK-POLY(ETHYLENE GLYCOL)	(CAS-No.) 2594-62-8	1 – 5	Not classified

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Treat symptomatically.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Seek medical attention if ill effect develops.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek immediate medical advice.
First-aid measures after ingestion	: Rinse mouth with water. Do not induce vomiting. Get immediate medical advice/attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after eye contact	: Eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Not flammable.
Explosion hazard	: No direct explosion hazard.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

5.3. Advice for firefighters

Precautionary measures fire	: Evacuate area.
Firefighting instructions	: Cool laterally with water containers exposed to flames, even after the fire is extinguished. Do not enter fire area without proper protective equipment, including respiratory protection. Evacuate area.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Avoid contact with skin, eyes and clothing. Do not handle until all safety precautions have been read and understood. Evacuate area.
------------------	--

6.1.1. For non-emergency personnel

Protective equipment	: Wear recommended personal protective equipment.
----------------------	---

COOL-D33

Safety Data Sheet

according to Regulation (EU) 2015/830

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Evacuate unnecessary personnel. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up : Take up liquid spill into absorbent material. Scoop absorbed substance into closing containers.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not handle until all safety precautions have been read and understood. Avoid contact with skin and eyes.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ensure adequate ventilation, especially in confined areas. Facilities: shower, eye shower.

Storage conditions : Store in a well-ventilated place. Keep cool. Protect from freezing.

Heat and ignition sources : Keep away from ignition sources.

Storage area : Keep container in a well-ventilated place. Keep only in the original container. Keep out of direct sunlight.

7.3. Specific end use(s)

Due to the nature of the raw material components used in this product, a small degree of sedimentation is normal. Periodic mixing of the product is recommended.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

SODIUM LIGNOSULPHONATE (68131-31-7)

United Kingdom - Occupational Exposure Limits

DIETHYLENE GLYCOL (111-46-6)

United Kingdom - Occupational Exposure Limits

Local name	2,2'-Oxydiethanol
WEL TWA (OEL TWA) [1]	101 mg/m ³ 2,2'-Oxydiethanol; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
WEL TWA (OEL TWA) [2]	23 ppm 2,2'-Oxydiethanol; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)

DIETHYLENE GLYCOL (111-46-6)

United Kingdom	Local name	2,2'-Oxydiethanol
United Kingdom	WEL TWA (OEL TWA) [1]	101 mg/m ³ 2,2'-Oxydiethanol; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL TWA (OEL TWA) [2]	23 ppm 2,2'-Oxydiethanol; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)

COOL-D33

Safety Data Sheet

according to Regulation (EU) 2015/830

8.2. Exposure controls

Appropriate engineering controls	: Ensure good ventilation of the work station.
Personal protective equipment	: Gloves, shoulder length. Protective clothing. Protective goggles. Safety Boots. In case of insufficient ventilation, wear suitable respiratory equipment.
Hand protection	: Protective gloves
Eye protection	: Protective goggles
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment



Environmental exposure controls : Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Brown to black.
Odour	: Characteristic odour.
Odour threshold	: No data available
pH	: 4.5 – 7.5 (25 C)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 100 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1.09 – 1.13 g/cm ³ (25 C)
Solubility	: soluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: Viscosity @ 0 degC = 178 cps, Viscosity @ 5 degC = 87cps, Viscosity @10 degC = 44cps
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable under normal conditions. Protect from freezing.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

COOL-D33

Safety Data Sheet

according to Regulation (EU) 2015/830

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

SODIUM LIGNOSULPHONATE (68131-31-7)	
LD50 oral rat	20000 mg/kg
DIOCTYL SULFOSUCCINATE SODIUM SALT (577-11-7)	
LD50 oral rat	> 2000 mg/kg (Rat)
LD50 oral	4620 mg/kg bodyweight
LD50 dermal rabbit	> 10000 mg/kg (Rabbit)
LD50 dermal	> 10000 mg/kg bodyweight
LC50 Inhalation - Rat (Dust/Mist)	20000 mg/m ³
DIETHYLENE GLYCOL (111-46-6)	
LD50 oral	19600 mg/kg bodyweight
LD50 dermal rabbit	11890 mg/kg (Rabbit)
LC50 Inhalation - Rat (Dust/Mist)	130 mg/m ³

Skin corrosion/irritation : Causes skin irritation.

pH: 4.5 – 7.5 (25 C)

Serious eye damage/irritation : Causes serious eye irritation.

pH: 4.5 – 7.5 (25 C)

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

SODIUM LIGNOSULPHONATE (68131-31-7)	
EC50 - Crustacea [1]	500-665, TLM; 96 h; Mysidacea
DIOCTYL SULFOSUCCINATE SODIUM SALT (577-11-7)	
LC50 - Fish [1]	28 mg/l
LC50 - Fish [2]	28 mg/l (LC50; 96 h)
EC50 - Crustacea [1]	36 mg/l (EC50; 48 h)
EC50 - Other aquatic organisms [1]	36 mg/l
EC50 - Other aquatic organisms [2]	IC50 algae (72 h) mg/l
DIETHYLENE GLYCOL (111-46-6)	
LC50 - Fish [1]	> 5000 ppm (LC50; 24 h)
EC50 - Crustacea [1]	> 10000 mg/l (EC50; 24 h)
EC50 - Other aquatic organisms [1]	> 10000 mg/l
EC50 - Other aquatic organisms [2]	IC50 algae (72 h) mg/l

12.2. Persistence and degradability

SODIUM LIGNOSULPHONATE (68131-31-7)	
Persistence and degradability	Biodegradability: not applicable. No (test) data on mobility of the substance available.
ThOD	Not applicable (inorganic)
DIOCTYL SULFOSUCCINATE SODIUM SALT (577-11-7)	
Persistence and degradability	Readily biodegradable in water. Photodegradation in water.

COOL-D33

Safety Data Sheet

according to Regulation (EU) 2015/830

DIETHYLENE GLYCOL (111-46-6)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil. Photolysis in the air.
Biochemical oxygen demand (BOD)	0.02 g O ₂ /g substance
Chemical oxygen demand (COD)	1.51 g O ₂ /g substance
ThOD	1.51 g O ₂ /g substance
BOD (% of ThOD)	0.015

12.3. Bioaccumulative potential

SODIUM LIGNOSULPHONATE (68131-31-7)	
Bioaccumulative potential	Bioaccumulation: not applicable.

DIOCTYL SULFOSUCCINATE SODIUM SALT (577-11-7)	
BCF - Fish [1]	< 0.9/<9.3,BCF
Partition coefficient n-octanol/water (Log Pow)	6.1
Bioaccumulative potential	Not bioaccumulative.

DIETHYLENE GLYCOL (111-46-6)	
BCF - Fish [1]	100 (BCF; Other; 3 days; Leuciscus melanotus; Static system; Fresh water; Experimental value)
Partition coefficient n-octanol/water (Log Pow)	-1.98 (Calculated; Other)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

12.4. Mobility in soil

DIETHYLENE GLYCOL (111-46-6)	
Surface tension	0.0485 N/m
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	Koc, SRC PCKOCWIN v1.66; 1; Calculated value; log Koc; SRC PCKOCWIN v1.66; 0; Calculated value

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

- Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations : Disposal must be done according to official regulations.
Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

- UN-No. (ADR) : Not applicable
UN-No. (IMDG) : Not applicable
UN-No. (IATA) : Not applicable

14.2. UN proper shipping name

- Proper Shipping Name (ADR) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable

14.3. Transport hazard class(es)

ADR

- Transport hazard class(es) (ADR) : Not applicable

IMDG

- Transport hazard class(es) (IMDG) : Not applicable

IATA

- Transport hazard class(es) (IATA) : Not applicable

COOL-D33

Safety Data Sheet

according to Regulation (EU) 2015/830

14.4. Packing group

Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable

14.5. Environmental hazards

Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available

14.6. Special precautions for user

- Overland transport

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level

COOL-D33

Safety Data Sheet

according to Regulation (EU) 2015/830

NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
Skin Irrit. 2	Skin corrosion/irritation, Category 2

SDS ImproChem Test

"DISCLAIMER: The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued. IMPROCHEM MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether ImproChem's product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of the ImproChem product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate ImproChem product to determine whether it is fit for a particular purpose and suitable for user's method of use or application. ImproChem provides information in electronic form as a service to its customers. Due to the remote possibility that electronic transfer may have resulted in errors, omissions or alterations in this information, ImproChem makes no representations as to its completeness or accuracy. In addition, information obtained from a database may not be as current as the information in the SDS available directly from ImproChem."