

SAFETY DATA SHEET

COOLI ADDITIVE PLUS



Section 1. Identification

Product identifier : COOLI ADDITIVE PLUS
Cat. No. : 49900071, 49900072
Container size : 1 l, 4 l
Other means of identification : Not available.
Product type : Liquid.

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

Product use : Additive for cutting fluid
Area of application : Professional applications.

Supplier's details : Struers ApS Singapore Branch
1008 Toa Payoh North
#05-07/08
Singapore 318996
Singapore
Telephone: +65 () 3165 0200

e-mail address of person responsible for this SDS : sdsquestions@struers.dk

Emergency telephone number (with hours of operation) : 24-hour Emergency Medical Service (EMS): 995.

Section 2. Hazards identification

Classification of the substance or mixture : Not classified.

GHS label elements

Signal word : No signal word.
Hazard statements : No known significant effects or critical hazards.
Precautionary statements
Prevention : Not applicable.
Response : Not applicable.
Storage : Not applicable.
Disposal : Not applicable.

Other hazards which do not result in classification : None known.

Version : 1.06

Date of issue/Date of revision : 3/20/2026



Section 3. Composition/information on ingredients

Substance/mixture : Mixture
 Other means of identification : Not available.

Ingredient name	%	Identifiers
2,2'-(methylimino)diethanol	≤7	CAS: 105-59-9
Sebacic acid, compound with 2-aminoethanol	≤5	-
benzotriazole	≤2	CAS: 95-14-7
1,2-Ethanediamine, N1,N1,N2,N2-tetramethyl-, polymer with 1,1'-oxybis [2-chloroethane]	≤0.2	CAS: 31075-24-8
pyridine-2-thiol 1-oxide, sodium salt	≤0.2	CAS: 3811-73-2

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Chemical formula : Not applicable.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Ingestion : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : No known significant effects or critical hazards.
Inhalation : No known significant effects or critical hazards.
Skin contact : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : No specific data.
Inhalation : No specific data.
Skin contact : No specific data.
Ingestion : No specific data.

Section 4. First aid measures

Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

- Suitable extinguishing media** : In case of fire, use water spray (fog), foam, dry chemical or CO₂.
- Unsuitable extinguishing media** : Do not use water jet.

Specific hazards arising from the chemical : In a fire or if heated, a pressure increase will occur and the container may burst.

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Remark : Not considered to be a product presenting a risk of explosion.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and material for containment and cleaning up

Version : 1.06

Date of issue/Date of revision : 3/20/2026



Section 6. Accidental release measures

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contain and collect spillage with non-combustible, absorbent material e. g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8).
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

- Conditions for safe storage, including any incompatibilities** : Store between the following temperatures: 5 to 35°C (41 to 95°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

None.

Biological exposure indices

No exposure indices known.

- Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Section 8. Exposure controls/personal protection

Eyeface protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. > 8 hours (breakthrough time): Recommended: Nitrile gloves. Breakthrough time: 480 minutes thickness: 0.11 mm
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
Thermal hazards	: Not available.

Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state	: Liquid.
Colour	: Yellow.
Odour	: Mild.
Odour threshold	: Not available.
pH	: 9.6 [DIN 51369]
Melting point/freezing point	: <0°C (<32°F) [Estimated.]
Boiling point or initial boiling point and boiling range	: ≥100°C (≥212°F) [Estimated.]
Flash point	: Open cup: >100°C (>212°F)
Evaporation rate	: Not available.
Flammability	: Non-flammable.
Lower and upper explosion limit/flammability limit	: Not available.
Vapour pressure	: ≤2.3 kPa (≤17.476 mm Hg) [Literature]
Relative vapour density	: Not applicable.
Relative density	: Not available.
Density	: 1.055 g/cm³ [DIN 51757]
Solubility(ies)	:

Section 9. Physical and chemical properties and safety characteristics

Media	Result
water	Soluble

Miscible with water	: Yes.
Partition coefficient: n-octanol/water	: Not applicable.
Auto-ignition temperature	: Not applicable.
Decomposition temperature	: Not applicable.
Viscosity	: Dynamic (room temperature): Not available. Kinematic (room temperature): 10 mm ² /s (10 cSt) [DIN 51562-1] Kinematic (40°C (104°F)): Not available.
Flow time (ISO 2431)	: Not available.
Particle characteristics	
Median particle size	: Not applicable.
Other information	
Physical/chemical properties comments	: No additional information.

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerisation will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: Reactive or incompatible with the following materials: oxidising materials and acids.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SADT	: Not available.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result
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Section 11. Toxicological information

2,2'-(methylimino)diethanol

Rabbit - Dermal - LD50

6220 mg/kg

Rat - Oral - LD50

4780 mg/kg

Sebacic acid, compound with
2-aminoethanol

Rat - Inhalation - LC50 Dusts and mists

1.5 mg/l [4 hours]

Rat - Oral - LD50

1951 mg/kg

1,2-Ethanediamine, N1,N1,N2,
N2-tetramethyl-, polymer with 1,1'-
oxybis[2-chloroethane]

Rabbit - Dermal - LD50

>2000 mg/kg

Rat - Inhalation - LC50 Dusts and mists

2.9 g/m³ [4 hours]

pyridine-2-thiol 1-oxide, sodium salt

Rat - Female - Oral - LD50

OECD 401 [Acute Oral Toxicity]

1208 mg/kg

Rabbit - Dermal - LD50

720 mg/kg

Conclusion/Summary[Product]

: Not available.

Skin corrosion/irritation

Conclusion/Summary[Product]

: Not available.

Serious eye damage/eye irritation

Product/ingredient name

Result

benzotriazole

Rabbit - Eyes - Severe irritant

Amount/concentration applied: 100 mg

Conclusion/Summary[Product]

: Not available.

Respiratory corrosion/irritation

Conclusion/Summary[Product]

: Not available.

Respiratory or skin sensitization

Skin

Conclusion/Summary[Product]

: Not available.

Respiratory

Conclusion/Summary[Product]

: Not available.

Germ cell mutagenicity

Conclusion/Summary[Product]

: Not available.

Carcinogenicity

Section 11. Toxicological information

Conclusion/Summary[Product] : Not available.

Reproductive toxicity

Product/ingredient name	Result	
2,2'-(methylimino)diethanol	Rat - Male - Oral 1000 mg/kg - NOAEL	OECD 416 [Two-Generation Reproduction Toxicity Study]
	Rat - Male, Female - Oral 300 mg/kg - NOAEL	OECD 416 [Two-Generation Reproduction Toxicity Study]
pyridine-2-thiol 1-oxide, sodium salt	Rat - Male - Oral 2.8 mg/kg - LOAEL	EPA
	Rat - Female - Oral 1.4 mg/kg - LOAEL	EPA
	Rat - Male - Oral 1.4 mg/kg - NOAEL	EPA
	Rat - Female - Oral 0.7 mg/kg - NOAEL	EPA

Conclusion/Summary[Product] : Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Result
Sebacic acid, compound with 2-aminoethanol	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3
pyridine-2-thiol 1-oxide, sodium salt	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Result
pyridine-2-thiol 1-oxide, sodium salt	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE (nervous system) - Category 1

Aspiration hazard

Not available.

Information on likely routes of exposure

Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Potential acute health effects

Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.

Section 11. Toxicological information

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Product/ingredient name	Result
pyridine-2-thiol 1-oxide, sodium salt	Chronic - Rat - Oral - LOAEL 1.5 mg/kg [90 days] Chronic - Rat - Oral - NOAEL 0.5 mg/kg [90 days]

Conclusion/Summary[Product] : Not available.

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
COOLI ADDITIVE PLUS	20202.0	N/A	N/A	N/A	30
2,2'-(methylimino)diethanol	4780	6220	N/A	N/A	N/A
Sebacic acid, compound with 2-aminoethanol	N/A	N/A	N/A	N/A	1.5
benzotriazole	500	N/A	N/A	N/A	N/A
1,2-Ethanediamine, N1,N1,N2,N2-tetramethyl-, polymer with 1,1'-oxybis[2-chloroethane]	1951	N/A	N/A	N/A	2.9
pyridine-2-thiol 1-oxide, sodium salt	1208	720	N/A	N/A	0.5

Section 12. Ecological information

Toxicity

Product/ingredient name Result

Section 12. Ecological information

2,2'-(methylimino)diethanol	Acute - LC50	
	Fish - <i>Leuciscus idus</i>	
	1466 mg/l [96 hours]	
	Acute - EC50	
	Daphnia - <i>Daphnia magna</i>	
	233 mg/l [48 hours]	
	Acute - EC50	
	Algae - <i>Desmodesmus subspicatus</i>	
	>100 mg/l [72 hours]	
	Chronic - EC10	
benzotriazole	Algae - Green algae - <i>Desmodesmus subspicatus</i>	Effect: Population OECD
	1.18 mg/l [72 hours]	
	Chronic - EC10	Effect: Reproduction OECD
	Daphnia - Water flea - <i>Daphnia galeata</i>	
	Age: <24 hours	
	0.97 mg/l [21 days]	
	Acute - EC50	Effect: Intoxication OECD
	Daphnia - Water flea - <i>Daphnia galeata</i>	
	Age: <24 hours	
	15.8 mg/l [48 hours]	
pyridine-2-thiol 1-oxide, sodium salt	EC50	
	Micro-organism	
	940 mg/l [3 hours]	
	Acute - LC50	
	Fish	
	55 mg/l [96 hours]	
	Acute - LC50 - Fresh water	EPA OPP 72-1
	Fish - <i>Oncorhynchus mykiss</i>	
	0.0073 mg/l [96 hours]	
	Acute - EC50 - Fresh water	OECD 202 [Daphnia sp. Acute Immobilization Test and Reproduction Test]
	Daphnia - <i>Daphnia magna</i>	
	0.6 mg/l [48 hours - Static]	
	Acute - EC50 - Fresh water	OECD 201 [Alga, Growth Inhibition Test]
	Algae - <i>Desmodesmus subspicatus</i>	
	0.22 mg/l [72 hours - Static]	
	Acute - NOEC - Fresh water	OECD 201 [Alga, Growth Inhibition Test]
	Algae - <i>Desmodesmus subspicatus</i>	
	0.033 mg/l [72 hours - Static]	

Conclusion/Summary[Product] : Not available.

Persistence and degradability

Product/ingredient name	Result	
2,2'-(methylimino)diethanol	Aerobic	OECD 301A [Ready Biodegradability - DOC Die-Away Test]
benzotriazole	96% [18 days]	
	Aerobic	OECD 302A [Inherent Biodegradability: Modified SCAS Test]
	0.8% [30 days] - Not readily	
	Aerobic	OECD 301B [Ready Biodegradability - CO2 Evolution Test]
	73% [28 days] - Readily	
pyridine-2-thiol 1-oxide, sodium salt		

Section 12. Ecological information

Conclusion/Summary[Product] : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
2,2'-(methylimino)diethanol benzotriazole pyridine-2-thiol 1-oxide, sodium salt	- - -	- - -	Readily Not readily Readily

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
2,2'-(methylimino)diethanol benzotriazole pyridine-2-thiol 1-oxide, sodium salt	-1.08 1.44 -2.38	- - -	Low Low Low

Mobility in soil

Soil/water partition coefficient : Not available.

Other adverse effects

No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	UN	IMDG	IATA	ADR/RID	ADN
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	9006
UN proper shipping name	-	-	-	-	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (benzotriazole)
Transport hazard class(es)	-	-	-	-	9

Version : 1.06

Date of issue/Date of revision : 3/20/2026



Section 14. Transport information

Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	Yes.

Additional information

ADN : The product is only regulated as a dangerous good when transported in tank vessels.

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to IMO instruments : Not available.

Section 15. Regulatory information

Singapore - hazardous chemicals under government control

None.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Ingredient name	List name	Status
Triethanolamine	Schedule III	Listed
Methyldiethanolamine	-	Listed

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Section 16. Other information

History

Date of issue/Date of revision : 3/20/2026
Date of previous issue : 1/13/2025
Version : 1.06
Prepared by : Sphera Solutions

Section 16. Other information

Key to abbreviations

- : ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
- ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
- ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- IATA = International Air Transport Association
- IBC = Intermediate Bulk Container
- IMDG = International Maritime Dangerous Goods
- IMO = International Maritime Organization
- LogPow = logarithm of the octanol/water partition coefficient
- MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- N/A = Not available
- RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
- SGG = Segregation Group
- UN = United Nations

Procedure used to derive the classification

Classification	Justification
Not classified.	

References : GHS - Globally Harmonised System of Classification and Labelling of Chemicals
International transport regulations

🔹 Indicates information that has changed from previously issued version.

Notice to reader

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.