

# Safety Data Sheet

**SPINOGY Coolant** 

Rev. date: 28.02.2022

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

according to regulation (EG) Nr. 1907/2006

1.1 Product identifier

Product: SPINOGY Coolant

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

Uses advised against: None

Use of the substance/mixture: Heat transfer fluid, cooling brine, antifreeze, corrosion

protection agent

#### 1.3 Details of the supplier of the safety data sheet

Company name: SPINOGY GmbH
Street: Brunnenweg 17

Place: D-64331 Weiterstadt
Phone: +49 (0) 6150 - 97096 0
Fax: +49 (0) 6150 - 97096 10

Website: www.spinogy.de E-Mail: mail@spinogy.de

Responsible Department: Marc Schmidt-Winterstein

Tel.: +49 (0) 6150 - 97096 80

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1.4 Emergency telephone number

Number: +49 (0) 6150 – 97096 0 (Mo. to Fr., 8 am to 5 pm)

Responsible: Marc Schmidt-Winterstein

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Giftnotruf Mainz - 24 hours emergency service

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#### 2.1 Classification of the substance or mixture

**SECTION 2:** Hazards identification

Regulation (EG) Nr. 1272/2008

Hazard categories:

Acute toxicity: Acute Tox. 4

STOT RF 2

Hazard Statements: Harmful if swallowed.

> May cause damage to organs through prolonged or repeated exposure.

2.2 Label elements

Regulation (EG) Nr. 1272/2008

Hazard components for labelling Ethanediol, Ethylene

Specific target organ toxicity - repeated exposure:

glycol

Signal word: Warning

Piktograms:



GHS 07

Hazard statements:

H302 Harmful if swallowed.

H373 May cause damage to organs through

prolonged or repeated exposure.

Precautionary statements:

P260 Do not breathe

dust/fume/gas/mist/vapours/spray.

P270 Do not eat, drink or smoke when using this

product.

P301+P312 IF SWALLOWED: Call a POISON

CENTER/doctor if you feel unwell.

P330 Rinse mouth.

P314 Get medical advice/attention if you feel

unwell.

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

Additional advice on labelling: The product is labeled in accordance with

Regulation (EC) no. 1272/2008 (GHS).

2.3 Other hazards:

According to Regulation (EC) No 1907/2006



SPINOGY GmbH Brunnenweg 17 64331 Weiterstadt mail@spinogy.de

(REACH), this product is regarded to be neither 970 960

PBT nor vPvB.

High risk of slipping due to leakage/spillage of product.

## **SECTION 3:** Composition/information on ingredients

### 3.1 Chemical characterization:

Mixture of the following substances with non-hazardous admixtures.

## Hazardous components:

CAS-No.	Chemical name:			Quantity:
	EG-No.	Index-No.	REACH-No.	
	Classification according to Regulation (EC) No. 1272/2008 [CL			
107-21-1	Ethanediol, Ethylene glycol		95 - <= 100 %	
	203-473-3		01-2119456816-28	
	Acute Tox. 4, STOT RE 2; H302 H373			

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

## 4.1 Description of first aid measures

General information: Remove contaminated soaked clothing immediately. In

the event of persistent symptoms receive medical

treatment.

After inhalation: Move to fresh air in case of accidental inhalation of

vapours. In the event of symptoms refer for medical

treatment.

After contact with skin: Wash off immediately with soap and plenty of water.

Consult a doctor if skin irritation persists.

After contact with eyes: Rinse immediately with plenty of water, also under the

eyelids, for at least 15 minutes.

Seek medical treatment by eye specialist.

After ingestion: Never give anything by mouth to an unconscious

person. Do not induce vomiting. Rinse out mouth and give plenty of water to drink. Seek medical treatment immediately. Symptoms of poisoning may not occur for





many hours, therefore keepunder medical supervision for at least 48 hours.

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

May cause damage to organs through prolonged or repeated exposure. (kidney, oral) Harmful if swallowed.

## 4.3 Indications of immediate medical attention or special treatment

Treat symptoms.

**SECTION 5:** Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

(CO2),

Alcohol-resistant foam, dry chemical, carbon dioxide

water-spray.

Unsuitable extinguishing media:

Full water jet.

5.2 Special hazards arising from the substance or mixture

Fire may produce: Carbon monoxide and carbon dioxide Under certain fire

conditionstraces of other toxic substances cannot be excluded. Vapours may form explosive mixture with air.

<u>5.3 Advice for firefighters:</u> Cool containers at risk with water spray jet. Use

breathing apparatus with independent air supply. Wear full protective suit. Suppress escaping gasses/vapours

with directed water spray jet.

Additional information: Collect contaminated fire-fighting water, avoid any

release into the sewerage. Fire residues and

contaminated firefighting water must be disposed of in

accordance with the local regulations.



#### **SECTION 6:** Accidental release measures

## 6.1 Personal precautions, protective equipment and emergency procedures

In case of vapour formation use respirator. Ensure adequate ventilation. Avoid contact with eyes, skin or mucous membrane. Use personal protective clothing.

## 6.2 Environmental precautions

Do not discharge into the drains/surface waters/ground water.



## 6.3 Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica

gel, acid binder, universal binder).

Shovel into suitable container for disposal.

6.4 Reference to other sections

Information for disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling:

Use only in thoroughly ventilated areas. Avoid contact with eyes, skin or mucous membrane. Care for thoroughly room ventilation, if necessary suck off at

workplace.

Advice on protection against fire and explosion:

Keep away from sources of ignition - No smoking. Take measures against electrostatically charging. Vapours can form an explosive mixture with air.

Further information on handling:

Avoid formation of aerosols. Do not inhale vapour/aerosol. In case of insufficient ventilation,

especially in confined areas.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels:

Store only in original container at cool and aired place.

Keep in a dry place.

Advice on storage compatibility:

Keep away from food, drink and animal feeding stuffs.

Further information on storage conditions:

Keep container tightly closed.

7.3 Specific end use(s):

No data available.



## SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Components with limit values that require monitoring at the workplace:

Ethan-1,2-diol (Monoethylene glykol, MEG)

CAS-No.: 107-21-1 EG-No.: 203-473-3

Exposure limit

IOELV European Union (2000/39/EWG)

Ethylene glycol

Long-term value: 52 mg/m³ 20 ml/m³ Short-term value: 104 mg/m³ 40 ml/m³

AGW (Germany) / TRGS 900

Ethandiol

Value: 26 mg/m³ 10 ml/m³

Peak limit: 2(I)
Skin absorption / sensitization: H
Pregnancy group: Y

## Ethan-1,2-diol, CAS 107-21-1 / EG No. 203-473-3

DNEL value	Route of exposure	Exposure time	Effect	Value
(Employee)	dermal	Long-term (chronically)	systemic	106 mg/kg/day
	inhalative	Long-term (chronically)	local	35 mg/m <sup>3</sup>

#### Ethan-1,2-diol, CAS 107-21-1 / EG No. 203-473-3

DNEL value	Route of exposure	Exposure time	Effect	Value
(Consumer)	dermal	Long-term (chronically)	systemic	53 mg/kg/day
	inhalative	Long-term (chronically)	local	7 mg/m³

## Ethan-1,2-diol, CAS 107-21-1 / EG No. 203-473-3

PNEC value	Environmental compartment	Туре	Value
	Water	Fresh water	10 mg/l
	Water	Sea water	1 mg/l
	Water	Fresh water sediment	20,9mg/l
	Water	AQUA intermittent	10mg/kg
	Soil	-	1,53 mg/kg
	Sewage plant (STP)	-	199,5 mg/l





8.2 Exposure controls

Appropriate engineering controls:

Ensure adequate ventilation, especially in confined

areas.

Protective and hygiene measures:

Wash hands before breaks and immediately after handling the product. When using do not eat, drink or smoke. Avoid contact with skin, eyes and clothing. Take off immediately all contaminated clothing.

Eye/face protection:

Tightly fitting goggles (EN 166).

Eye wash bottle with pure water (EN 15154).

Hand protection:

Chemical-resistant gloves (EN 374).

Suitable materials also for extended, direct contact (recommended: protection index 6, corresponding to a permeation rate > 480 minutes according to EN 374):

Nitrile rubber/nitrile latex - NBR (0,35 mm),

Butyl rubber - Butyl (0,5 mm).

Follow the recommendations of the glove manufacturer for breakthrough properties especially for workplace conditions involving mechanical stress and contact

duration.

Skin protection:

Long sleeved clothing (EN 368).

Respiratory protection:

No personal respiratory protective equipment normally required. Breathing apparatus in the event of aerosol or

mist formation.

#### SECTION 9: Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

General information

Physical state:

Colour:

Odour:

Pink

Odourless
pH-Value (at 20 °C):

Melting point:

Pink

Odourless
7,3-8,3

-13 °C

Boiling point:

197,4 °C





Flash point: 111 °C

Explosive properties: The product is not explosive.

Lower explosion limits:3,2 Vol%Upper explosion limits:15,3 Vol%Ignition temperature:> 400 °C

Oxidizing properties: The product is not self-igniting.

Vapour pressure (20 °C): 0,2 hPa
Density: 1,12 g / cm³

pH-Value 1%: No data available Water solubility (20 °C): Completely miscible

Viscosity, dynamic (20 °C): 16,1 mPa s Viscosity, kinematic (20 °C): 20-30

mm²/s

9.2 Other information

No data available

## SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Reactions with strong oxidizing agents. In use formation of flammable/explosivevapour-air mixtures possible.

10.4 Conditions to avoid

No decomposition if used as directed.

10.5 Incompatible materials

Chromylchlorid, Zin Oxidizing agents, perchloric acid,

alkali hydroxides, chromyl chloride, zinc

10.6 Hazardous decomposition products

Carbon monoxide and carbon dioxide

Carbonyl compounds Dioxolan compounds



## **SECTION 11: Toxicological information**

11.1 Information on toxicological effects:

Ethan-1,2-diol, CAS 107-21-1 / EG No. 203-473-3:

Acute oral toxicity: LD 50, Rat 7712 mg/kg

Acute dermal toxicity: LD50, Mouse >3500 mg/kg

Acute inhalation toxicity: LC50, Rat >2,5 mg/l (6 hours)

Other information:

Acute toxicity: LD50, Rat, intraperitoneally 5010 mg/kg

LD50, Rat, subcutaneous 2800 mg/kg LD50, Rat, intravenous 3260 mg/kg

Primary irritant effect:

Irritant effect skin: Light irritation possible.

Irritant effect eye: Short-term and reversible light irritation possible.

Sensitization: No sensitizing effect

Severe effects after repeated or

prolonged exposure: May cause damage to organs through prolonged

or repeated exposure

### **SECTION 12:** Ecological information

12.1 Toxicity

Ethan-1,2-diol, CAS 107-21-1 / EG No. 203-473-3:

Aquatic toxicity: Fish (Phimephales promelas), LC50: 7.860 mg/l/96 h

Daphnia (Daphnia manga), EC50: 74000 mg/l/24 h
Algae green algae I5, EC50: >10000 mg/l/7 d
Onchorrhynchus mykiss, LC50: 18500 mg/l/96 h
Bacteria (activated sludge), EC20: >1995 mg/l/30 min

12.2 Persistence and degradability

The product has no harmful effect on the environment.

It is readily biodegraded according to

OECD 301E / EEC 84/449 C3

Elimination: > 70% DOC Zahn-Wellens-Test

> 99% (21 d; mod. Sturm-Test)





Valuation: Readily biodegraded.

CSB:  $1,29 \text{ g } O_2/\text{kg}$ BSB5:  $0,81 \text{ g } O_2/\text{g}$ Ratio BSB/CSB: 63%

DOC: 90-100% in 10 Tagen

12.3 Bioaccumulative potential

No bioaccumulation is expected

12.4 Mobility in the soil

No data available.

Ecotoxic effects: With the appropriate introduction of low concentrations

into adapted biological wastewater treatment plants, trouble is not to be expected in the decomposition

activity

of activated sludge.

General information: Water hazard class: WHC 1: slightly hazardous for

water.

12.5 Results of PBT and vPvB assessment

PBT: Not determined vPvB: Not determined

12.6 Other adverse effects

Not determined.

### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Advice on disposal: Should not be disposed of with household waste.

Do not flush into surface water or sanitary sewer

system.

Where possible recycling is preferred to disposal. The waste code number must be agreed with the disposer / manufacturer / competent authority.

Waste disposal number of waste from residues/unused products:

160508 WASTES NOT OTHERWISE SPECIFIED IN THE LIST;

gases in pressure containers and discarded chemicals; discarded organic chemicals consisting of or containing

hazardous substances; hazardous waste.





Waste disposal number of used product: 160508

WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; discarded organic chemicals consisting of or containing hazardous substances: hazardous waste.

Waste disposal number of contaminated packaging: 150102

WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); plastic packaging

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal. Contaminated packaging should be emptied as far as possible and after appropriate

cleansing may be taken for reuse. Packaging that cannot be cleaned should be disposed of like the product.

Cleaning agent: Water

#### **SECTION 14: Transport information**

Land transport (ADR/RID):

14.1. UN-Nummer

No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name

No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es)

No dangerous good in sense of this transport regulation.

14.4. Packing group

No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN):

14.1. UN-Nummer

No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name

No dangerous good in sense of this transport regulation.



No dangerous good in sense of this transport regulation.



14.4. Packing group	No dangerous good in sense of this transport regulation.
Marine transport (IMDG): 14.1. UN-Nummer	The dangerous good in sense of this transport regulation.
	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es)	
	No dangerous good in sense of this transport regulation.
14.4. Packing group	No dangerous good in sense of this transport regulation.
Air transport (ICAO-TI/IATA-DGR)  14.1. UN-Nummer	
	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es)	
	No dangerous good in sense of this transport regulation.
14.4. Packing group	No dangerous good in sense of this transport regulation.
14.5. Environmental hazards	No environmentally hazardous
14.6. Special precautions for user	No dangerous good in sense of this transport regulation.
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code	
	No dangerous good in sense of this transport regulation.



### **SECTION 15: Regulatory information**

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

EU regulatory information 2004/42/EG:

 VOC – EU
 0,00%

 VOC – CH
 0,00%

Information according to 2012/18/EU: Not subject to 2012/18/EU (SEVESO III)

National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils

according

to the 'juvenile work protection guideline' (94/33/EC)

Water contaminating class (D): 1 - slightly water contaminating

15.2 Chemical safety assessment

Chemical safety assessments for substances in this

mixture were not carried out.





### **SECTION 16: Other information**

Abbreviations and acronyms

ADR: Accord européen relatif au transport international des

marchandises Dangereuses parRoute (Agreement concerning

the international carriage of Dangerous goods by Road)

IMDG-Code: International Maritime Code for Dangerous Goods

ICAO: International Civil Aviation Organisation (IATA: The

International Air Transport Association)

GHS: Globally Harmonized System of Classification, Labelling

and Packaging of Chemicals

Relevant H and EUH statements (number and full text):

H302 Harmful if swallowed.

H373 May cause damage to organs through prolonged

or repeated exposure.

Further Information:

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product),

but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)