



ALPINE C12 Evo Revision date: 27.01.2023 Page 1 of 11 SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier ALPINE C12 Evo 1.2. Relevant identified uses of the substance or mixture and uses advised against Use of the substance/mixture engine coolant Uses advised against No information available. 1.3. Details of the supplier of the safety data sheet Mitan Mineralöl GmbH Company name: Street: Industriestraße 8 Place: D-49577 Ankum +49 (0)5462/7470-50 Telefax: +49 (0)5462/7470-33 Telephone: info@mitan-oil.de e-mail: Internet: www.mitan-oil.de Responsible Department: Produktsicherheit / Product Safety sicherheitsdatenblatt@mitan-oil.de Giftinformationszentrum Nord (Göttingen) 1.4. Emergency telephone +49 (0)551/19240 number: **SECTION 2: Hazards identification**

SECTION 2. Hazarus identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Acute Tox. 4; H302 STOT RE 2; H373

Full text of hazard statements: see SECTION 16.

Warning

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

Ethane-1,2-diol

Signal word: Pictograms:

•.



Hazard statements

H302	
H373	

Harmful if swallowed. May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

· · · · · · · · · · · · · · · · · · ·	
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.





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P330	Rinse mouth.					
P314	Get medical advice/attention if you feel unwell.					
P501	Dispose of contents / container in accordance with official regulations.					
2.3. Other hazards						
No information	n available.					

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name							
	EC No	Index No	REACH No					
	GHS Classification							
107-21-1	Ethane-1,2-diol							
	203-473-3	603-027-00-1	01-2119456816-28					
	Acute Tox. 4, STOT RE 2; H302	2 H373						
2492-26-4	Sodium benzothiazol-2-yl sulphi	0,1 - < 0,25 %						
	219-660-8							
	Met. Corr. 1, Skin Corr. 1B, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; H290 H314 H317 H400 H410							

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity			
	Specific Conc. L	imits, M-factors and ATE				
107-21-1	203-473-3	Ethane-1,2-diol				
	dermal: LD50 = > 3500 mg/kg; oral: LD50 = 7712 mg/kg					

Further Information

This mixture contains no substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Take off contaminated clothing and wash it before reuse.

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

Remove person to fresh air and keep comfortable for breathing.

In all cases of doubt, or when symptoms persist, seek medical advice.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.





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Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion

Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting. When in doubt or if symptoms are observed, get medical advice.

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

No information available.

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

Use water spray jet to protect personnel and to cool endangered containers.

Co-ordinate fire-fighting measures to the fire surroundings.

- alcohol resistant foam
- Extinguishing powder
- Carbon dioxide (CO2)
- Water mist

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Non-flammable. Formation of toxic gases is possible during heating or in case of fire.

In case of fire may be liberated:

- Carbon monoxide (CO)
- Carbon dioxide (CO2).
- Pyrolysis products, toxic

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Suppress gases/vapours/mists with water spray jet.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Dispose of waste according to applicable legislation.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

6.3. Methods and material for containment and cleaning up

For containment

Stop leak if safe to do so.





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Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up

Collect in closed and suitable containers for disposal.

Treat the recovered material as prescribed in the section on waste disposal.

Clean contaminated articles and floor according to the environmental legislation.

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Always close containers tightly after the removal of product. Do not put any product-impregnated cleaning rags into your trouser pockets. Clear spills immediately. Use only in well-ventilated areas.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed and in a well-ventilated place. Keep only in the original container. Store in a cool dry place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints on joint storage

Do not store together with:

- Materials capable of ignition under almost all normal temperature conditions
- Explosives

7.3. Specific end use(s)

engine coolant

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
107-21-1	Ethane-1,2-diol, vapour	20	52		TWA (8 h)	WEL
		40	104		STEL (15 min)	WEL





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DNEL/DMEL values

CAS No	Substance							
DNEL type		Exposure route	Effect	Value				
107-21-1	Ethane-1,2-diol							
Worker DNEL,	long-term	inhalation	local	35 mg/m³				
Worker DNEL, long-term		dermal	systemic	106 mg/kg bw/day				
Consumer DNEL, long-term		inhalation	local	7 mg/m³				
Consumer DNE	EL, long-term	dermal	systemic	53 mg/kg bw/day				

PNEC values

CAS No	Substance				
Environmental compartment Value					
107-21-1	Ethane-1,2-diol				
Freshwater		10 mg/l			
Freshwater (intermittent releases) 10 mg/l					
Marine water 1 mg/l					
Freshwater sediment 37 mg/kg					
Marine sedir	3,7 mg/kg				
Micro-organi	isms in sewage treatment plants (STP)	199,5 mg/l			
Soil		1,53 mg/kg			

8.2. Exposure controls



Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations.

Protective and hygiene measures

Take off contaminated clothing and wash it before reuse.

Wash hands and face before breaks and after work and take a shower if necessary.

When using do not eat, drink, smoke, sniff. Keep away from food, drink and animal feedingstuffs.

Eye/face protection

During filling, metering, mixing and sampling must be used:

Wear eye/face protection. EN 166

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Recommended glove articles: EN ISO 374

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material: 0,4 mm

Breakthrough times and swelling properties of the material must be taken into consideration. Breakthrough time: > 8h

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves





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mentioned above together with the su Skin protection Wear suitable protective clothing. EN Respiratory protection In case of inadequate ventilation wea	I 14605	
SECTION 9: Physical and chemical pro	operties	
9.1. Information on basic physical and che	emical properties	
Physical state:	Liquid	
Colour:	violet	
Odour:	characteristic	
Odour threshold:	not determined	
pH-Value (at 20 °C):	7,5 - 9,0	
Changes in the physical state		
Melting point/freezing point:	-12 °C	
Boiling point or initial boiling point and boiling range:	197 °C	
Flash point:	> 111 °C	
Sustaining combustion:	No data available	
Flammability		
Solid/liquid:	not applicable	
Gas:	not applicable	
Explosive properties The product is not: Explosive.		
Auto-ignition temperature:	>400 °C	
Self-ignition temperature		
Solid: Gas:	not applicable	
-	not applicable	
Decomposition temperature:	not determined	
Oxidizing properties The product is not: oxidising.		
Density (at 20 °C):	1,13 g/cm³	
Water solubility:	completely miscible	
Solubility in other solvents not determined		
Partition coefficient n-octanol/water:	not determined	
Viscosity / dynamic:	not determined	
Viscosity / kinematic:	not determined	
Relative vapour density:	not determined	
Evaporation rate:	not determined	
9.2. Other information		
Solid content:	not determined	





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SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Avoid: Thermal decomposition Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Safe handling: see section 7

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

Hazardous combustion products:

- Carbon monoxide (CO)
- Carbon dioxide (CO2).

- Pyrolysis products, toxic

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Acute toxicity

Harmful if swallowed.

ATEmix calculated

ATE (oral) 526,3 mg/kg

CAS No	Chemical name									
	Exposure route	Dose		Species	Source	Method				
107-21-1	Ethane-1,2-diol									
	oral	LD50 mg/kg	7712	Rat		according to BASF-internal standards				
	dermal	LD50 mg/kg	> 3500			LD50 derived from developmental toxicity				

Irritation and corrosivity

Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.





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STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure. (Ethane-1,2-diol)

Aspiration hazard

Based on available data, the classification criteria are not met.

Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

11.2. Information on other hazards

Endocrine disrupting properties

See section: 12.6

SECTION 12: Ecological information

12.1. Toxicity

The product is not: Ecotoxic.

CAS No	Chemical name								
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method		
107-21-1	Ethane-1,2-diol								
	Acute fish toxicity	LC50 mg/l	> 72860	96 h	Pimephales promelas	Environ. Toxicology and Chemistry, Vol.	EPA 600/4-90/027. U.S. Environmental Pro		
	Acute algae toxicity	ErC50 13000 mg/l	6500 -	96 h	Pseudokirchneriella subcapitata	Study report (1982)	other: EPA 600/9-78-018, 1978		
	Acute crustacea toxicity	EC50 mg/l	> 100	48 h	Daphnia magna	Study report (1998)	OECD Guideline 202		
	Fish toxicity	NOEC mg/l	15380	7 d	Pimephales promelas	Environ. Toxicology and Chemistry, Vol.	other: EPA 600/4-89/001. U.S. Environmen		
	Algae toxicity	NOEC mg/l	> 100	8 d	Scenedesmus quadricauda	REACh Registration Dossier	OECD Guideline 201		
	Crustacea toxicity	NOEC 15000 mg/l	7500 -	21 d	Daphnia magna	REACh Registration Dossier	other: ASTM		

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
107-21-1	Ethane-1,2-diol	-1,36

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

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12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: 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 number: No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. 14.2. UN proper shipping name: 14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. 14.4. Packing group: Marine transport (IMDG) No dangerous good in sense of this transport regulation. 14.1. UN number: 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 number: No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. 14.2. UN proper shipping name: 14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. 14.4. Packing group: 14.5. Environmental hazards ENVIRONMENTALLY HAZARDOUS: No 14.6. Special precautions for user No dangerous good in sense of this transport regulation. 14.7. Maritime transport in bulk according to IMO instruments No dangerous good in sense of this transport regulation.





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SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 75

2010/75/EU (VOC): 2004/42/EC (VOC):

Information according to 2012/18/EU (SEVESO III): 95 % (1054,5 g/l) 100 % (1110 g/l) Not subject to 2012/18/EU (SEVESO III)

National regulatory information

Employment restrictions:

Water hazard class (D):

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). 1 - slightly hazardous to water

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 2,4,8,9,10,11,12,13.

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service LC50: Lethal concentration, 50% LD50: Lethal dose, 50% CLP: Classification, labelling and Packaging REACH: Registration, Evaluation and Authorization of Chemicals GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals UN: United Nations DNFL: Derived No Effect Level DMFL: Derived Minimal Effect Level PNEC: Predicted No Effect Concentration ATE: Acute toxicity estimate LL50: Lethal loading, 50% EL50: Effect loading, 50% EC50: Effective Concentration 50% ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration BCF: Bio-concentration factor PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative





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RID: Regulations concerning the international carriage of dangerous goods by rail ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)

EmS: Emergency Schedules

MFAG: Medical First Aid Guide

ICAO: International Civil Aviation Organization

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container

VOC: Volatile Organic Compounds

SVHC: Substance of Very High Concern

For abbreviations and acronyms, see table at http://abbrev.esdscom.eu

Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Acute Tox. 4; H302	Calculation method
STOT RE 2; H373	Calculation method

Relevant H and EUH statements (number and full text)

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)