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# **Safety Data Sheet**

# **ADDINOL Antifreeze CHB**

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# 1. Identification

### **Product identifier**

ADDINOL Antifreeze CHB

# Recommended use of the chemical and restrictions on use

### Use of the substance/mixture

Anti-freezing agent.

# Details of the supplier of the safety data sheet

Manufacturer

Company name: ADDINOL Lube Oil GmbH

Gebäude 4609

 Street:
 Am Haupttor

 Place:
 D-06237 Leuna

 Telephone:
 +49 (0) 3461 845-0

e-mail: info@addinol.de
Contact person: Application Technology

Internet: www.addinol.de

Responsible Department: ADDINOL Application Technology

Supplier

Company name: ADDINOL Lube Oil GmbH
Street: Am Haupttor, D - 06237 Leuna

Telephone: +1 647 939 9938 e-mail: +1 647 939 9938 laura.nelson@addinol.de

Emergency phone number: +16479399938 available Mon - Fri, 8:00 am to 4:30 pm EST

# 2. Hazard(s) identification

# Classification of the chemical

#### Regulation (EC) No 1272/2008

Acute Tox. 4; H302 STOT RE 2; H373

Full text of hazard statements: see SECTION 16.

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

#### **Label elements**

# Regulation (EC) No 1272/2008

# Hazard components for labelling

ethanediol; ethylene glycol **Signal word:** Warning

Pictograms:





#### **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/vapors/spray.

P264 Wash hands thoroughly after handling.

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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 to an appropriate recycling or disposal facility.

# Additional advice on labelling

The product is classified and labelled according to EC directives or corresponding national laws.

### Hazards not otherwise classified

Spilled product must not leak into the ground.

Do not allow uncontrolled discharge of product into the environment.

### 3. Composition/information on ingredients

#### **Mixtures**

### **Hazardous components**

CAS No	o Components				
	EC No	Index No	REACH No		
	Classification (Regulation (EC) No 1272/2008)				
107-21-1	21-1 ethanediol; ethylene glycol				
	203-473-3 603-027-00-1				
	Acute Tox. 4, STOT RE 2; H302 H373				
29385-43-1	Tolyltriazole				
	249-596-6				
	Repr. 2, Acute Tox. 4, Aquatic Chro	onic 2; H361d H302 H411			
-	Kalium (2-Benzothiazolyl)-thio-azetat				
	Repr. 2, Acute Tox. 4, Eye Dam. 1,	Aquatic Chronic 3; H361 H302 H318	3 H412		

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

#### Specific Conc. Limits. M-factors and ATE

		,								
CAS No	EC No Components		Quantity							
	Specific Conc.	pecific Conc. Limits, M-factors and ATE								
107-21-1	21-1 203-473-3 ethanediol; ethylene glycol		80 - < 100 %							
	inhalation: LC	shalation: LC50 = >2,5 mg/l (vapours); dermal: LD50 = >3500 mg/kg; oral: LD50 = 1600 mg/kg								
29385-43-1	3-1 249-596-6 Tolyltriazole		< 0,5 %							
	dermal: LD50	ermal: LD50 = > 2000 mg/kg; oral: LD50 = ca. 720 mg/kg								
-	- Kalium (2-Benzothiazolyl)-thio-azetat		< 0,5 %							
	oral: ATE = 50	ATE = 500 mg/kg								

### **Further Information**

Classification system: The classification corresponds to the current US lists and is completed by information from specialist literature and company information.

### 4. First-aid measures

## **Description of first aid measures**

## **General information**

Self-protection of the first aider. Change contaminated clothing. Do not put any product-impregnated cleaning rags into your trouser pockets.

# After inhalation

Move victim to fresh air. Put victim at rest and keep warm. In case of persistent complaints seek medial

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advice.

#### After contact with skin

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

#### After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

#### After ingestion

Do NOT induce vomiting.

Rinse mouth immediately and drink plenty of water. Call a physician immediately.

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

Ingestion causes nausea, weakness and central nervous system effects. The following symptoms may occur: Headache. drowsiness.

### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

# 5. Fire-fighting measures

### **Extinguishing media**

#### Suitable extinguishing media

Foam. Extinguishing powder Carbon dioxide (CO2)

### Unsuitable extinguishing media

Strong water jet

# Specific hazards arising from the chemical

In case of fire, the following may be released: Carbon monoxide Carbon dioxide (CO2)

## Special protective equipment and precautions for fire-fighters

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

#### **Additional information**

Co-ordinate fire-fighting measures to the fire surroundings. Use water spray/stream to protect personnel and to cool endangered containers. In case of fire and/or explosion do not breathe fumes. Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

### 6. Accidental release measures

# Personal precautions, protective equipment and emergency procedures

### General advice

High slip hazard because of leaking or spilled product. Remove all sources of ignition. Wear respiratory protection when in the presence of vapor, dust, and aerosols. Avoid contact with skin, eye and clothing.

#### **Environmental precautions**

Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities. Prevent spread over a wide area (e.g. by containment or oil barriers).

# Methods and material for containment and cleaning up

### Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Clean contaminated articles and floor according to the environmental legislation.

#### Reference to other sections

Safe handling: see section 7

Personal protection equipment (PPE): see section 8 Section 12: Ecological Information (non-mandatory)

Disposal: see section 13

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### 7. Handling and storage

### Precautions for safe handling

### Advice on safe handling

Take precautionary measures against static discharges. Avoid contact with skin, eyes and clothes.

#### Advice on protection against fire and explosion

Take precautionary measures against static discharges. Use only antistatically equipped (spark-free) tools.

#### Advice on general occupational hygiene

Wash hands before breaks and after work. Take off immediately all contaminated clothing. Wash contaminated clothing prior to re-use. Do not eat, drink, smoke or sneeze at the workplace.

## Conditions for safe storage, including any incompatibilities

# Requirements for storage rooms and vessels

Keep the packing dry and well sealed to prevent contamination and absorbtion of humidity. Keep container tightly closed in a cool place. Keep/Store only in original container.

# Hints on joint storage

Keep away from food, drink and animal feed. Keep away from: Oxidizing agents, strong.

# Further information on storage conditions

storage temperature 5 - 40°C

Protect against: UV-radiation/sunlight, Frost, Heat.

### Specific end use(s)

Anti-freezing agent. Further information: see technical data sheet.

# 8. Exposure controls/personal protection

# **Control parameters**

#### **Exposure limits**

CAS No.	Substance	ppm	mg/m³	f/cc	Category	Origin
-	Uranium soluble and insoluble compounds, as		0.2		TWA (8 h)	ACGIH-2021
			0.6		STEL (15 min)	ACGIH-2021

#### **DNEL/DMEL values**

CAS No.	Substance							
DNEL type	NEL type		Effect	Value				
29385-43-1	9385-43-1 Tolyltriazole							
Worker DNEL,	Worker DNEL, long-term		systemic	21,2 mg/m³				
Worker DNEL,	Worker DNEL, long-term		systemic	0,3 mg/kg bw/day				
Consumer DN	Consumer DNEL, long-term		systemic	0,01 mg/kg bw/day				
Consumer DN	Consumer DNEL, long-term		systemic	0,01 mg/kg bw/day				

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#### **PNEC values**

CAS No.	Substance		
Environmenta	ll compartment	Value	
29385-43-1	Tolyltriazole		
Freshwater	Freshwater		
Freshwater (intermittent releases)		0,086 mg/l	
Marine water		0,02 mg/l	
Freshwater sediment		0,117 mg/kg	
Marine sediment		0,292 mg/kg	
Micro-organisms in sewage treatment plants (STP)		39,4 mg/l	
Soil		0,0187 mg/kg	

# **Exposure controls**





#### Appropriate engineering controls

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

### Individual protection measures, such as personal protective equipment

### Eye/face protection

Tightly sealed safety glasses, German Industry Norms (DIN) / European Norms (EN): EN 166

## **Hand protection**

Tested protective gloves must be worn: German Industry Norms (DIN) / European Norms (EN): EN ISO 374

Duration of wearing with permanent contact: 480 min

Suitable material: NBR (Nitrile rubber) Thickness of glove material: 0.7 mm.

Wearing time with occasional contact (splashes): 30 min

Suitable material: NBR (Nitrile rubber) Thickness of glove material: 0.4 mm

Protect skin by using skin protective cream.

### Skin protection

Wear suitable protective clothing. Change contaminated clothing. Do not put any product-impregnated cleaning rags into your trouser pockets.

# Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Breathing protection with filter against organic gases and vapours type A - boiling point > 65°C: A1: < 1000 ppm; A2: < 5000 ppm; A3: < 10000 ppm

# 9. Physical and chemical properties

# Information on basic physical and chemical properties

Physical state: liquid
Color: dark green
Odor: characteristic
Odour threshold: not determined

**Test method** 

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Changes in the physical state

Melting point/freezing point:

Boiling point or initial boiling point and

<163 °C

<p>C

boiling range:

Flash point: 122 °C DIN EN ISO 2719

**Flammability** 

Solid/liquid: not determined
Gas: not determined

**Explosive properties** 

Section 12: Ecological Information (non-mandatory)

Lower explosion limits:

Upper explosion limits:

not determined

not determined

Auto-ignition temperature:

not determined

Self-ignition temperature

Solid: not determined Gas: not determined Decomposition temperature: not determined pH-Value (at 20 °C): 8,5
Viscosity / kinematic: not applicable

Solubility in other solvents

not determined

Partition coefficient n-octanol/water: not determined

Vapor pressure: not determined

Density (at 20 °C): 1,119 g/cm³ DIN 51757

Relative vapour density: not determined

Other information

Information with regard to physical hazard classes

Oxidizing properties not determined

Other safety characteristics

Evaporation rate: not determined

Further Information not determined

# 10. Stability and reactivity

# Reactivity

The product is stable under storage at normal ambient temperatures.

# **Chemical stability**

The mixture is chemically stable under recommended conditions of storage, use and temperature.

## Possibility of hazardous reactions

No known hazardous reactions.

# **Conditions to avoid**

Do not overheat to avoid decomposition by heat.

Refer to chapter 7 No further action is necessary.

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# **Incompatible materials**

Reacts with: Oxidizing agents, strong.

# **Hazardous decomposition products**

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO2)

# 11. Toxicological information

### Information on toxicological effects

#### **Acute toxicity**

Harmful if swallowed

#### **ATEmix** calculated

ATE (oral) 1641,0 mg/kg

CAS No	Components							
	Exposure route	Dose		Species	Source	Method		
107-21-1	ethanediol; ethylene glyc	ol						
	oral	mg/kg		Cat				
	dermal			Mouse				
	inhalation (4 h) vapour	LC50	>2,5 mg/l	Rat				
29385-43-1	Tolyltriazole							
	oral LD50 ca. 720 mg/kg			Rat	Study report (1983)	OECD Guideline 401		
			Rabbit	Study report (1984)	OECD Guideline 402			
-	Kalium (2-Benzothiazolyl)-thio-azetat							
	oral	ATE mg/kg	500					

#### Irritation and corrosivity

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

## Sensitizing 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.

# Specific target organ toxicity (STOT) - single exposure

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

# Specific target organ toxicity (STOT) - repeated exposure

May cause damage to organs through prolonged or repeated exposure (ethanediol; ethylene glycol)

# **Aspiration hazard**

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

# Information on other hazards

# **Endocrine disrupting properties**

not applicable

# 12. Ecological information

# **Ecotoxicity**

No data available

Mixture not tested.

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CAS No	Components						
	Aquatic toxicity	Dose	Oose		Species	Source	Method
29385-43-1	Tolyltriazole						
	Acute fish toxicity	LC50	J. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.		Cyprinodon variegatus	Study report (2003)	other: The test procedure is based on te
	Acute algae toxicity	ErC50			Pseudokirchneriella subcapitata	Study report (1994)	OECD Guideline 201
	Acute crustacea toxicity	EC50 15,8 mg/l			other aquatic crustacea: Daphnia galeata	Environ Sci Pollut Res 19:1781-1790 (201	OECD Guideline 202
	Crustacea toxicity	NOEC mg/l	18,4	21 d		Study report (1995)	other: "Daphnia Reproduction Test" of OE

### **Bioaccumulative potential**

No data available

#### Partition coefficient n-octanol/water

CAS No	Components	Log Pow
29385-43-1	Tolyltriazole	1,079

# **Mobility in soil**

No data available

# Results of PBT and vPvB assessment

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

# **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.

## Other adverse effects

No data available

#### **Further information**

Do not allow to enter into surface water or drains.

### 13. Disposal considerations

### Waste treatment methods

# **Disposal recommendations**

Must not be disposed of with domestic refuse. Do not allow to enter into surface water or drains.

### Contaminated packaging

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Dispose of waste according to applicable legislation. Packing which cannot be properly cleaned must be disposed of.

# 14. Transport information

### Land transport (ADR/RID)

UN number or ID number:
UN proper shipping name:
Transport hazard class(es):
Packing group:

### Inland waterways transport (ADN)

UN number or ID number:
UN proper shipping name:

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<u>Transport hazard class(es):</u> Packing group: -

Marine transport (IMDG)

UN number or ID number:
UN proper shipping name:
Transport hazard class(es):
Packing group:

Air transport (ICAO-TI/IATA-DGR)

UN number or ID number:

UN proper shipping name:

Transport hazard class(es):

Packing group:

**Environmental hazards** 

ENVIRONMENTALLY HAZARDOUS: No

#### Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed.

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

#### Other applicable information

No dangerous good in sense of these transport regulations.

### 15. Regulatory information

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

# EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3

### **National regulatory information**

Water hazard class (D): 1 - slightly hazardous to water

### **Chemical Safety Assessment**

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

# 16. Other information

#### Changes

This data sheet contains changes from the previous version in section(s): 2,5,7,9,12.

### Abbreviations and acronyms

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ASTM - American Society for the Testing of Materials; ATE - Acute Toxicity Estimates; bw - Body weight; CAO - Cargo Aircraft Only; CAS - Chemical Abstracts Service; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DNEL - Derived No-Effect Level; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); EG - European Union; EN - European standards; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the

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Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n;o;s; - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; OECD - Organization for Economic Co-operation and Development; PBT -Persistent, Bioaccumulative and Toxic substance; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulation concerning the International Carriage of Dangerous Goods by Rail; RQ -Reportable Quantity; SADT - Self- Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act: SDS - Safety Data Sheet: TSCA - Toxic Substances Control Act (United States): UN -United Nations: vPvB - Very Persistent and Very Bioaccumulative

Classification for mixtures and used evaluation method according to GHS

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

Acute Tox. 4; H302	Calculation method			
STOT RE 2; H373	Calculation method			
Relevant H statements (full text)				

### H302 Harmful if swallowed

				_		-		
H318	Causes	se	erio	ou	s eye	dan	กลดู	је
	_		-	_			_	

H361 Suspected of damaging fertility or the unborn child

H361d Suspected of damaging the unborn child

H373 May cause damage to organs through prolonged or repeated exposure

H411 Toxic to aquatic life with long lasting effects H412 Harmful to aquatic life with long lasting effects

### Other data

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

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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.)