



according to Regulation (EC) No 1907/2006

Radiator Conditioner

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

1.1. Product identifier

Radiator Conditioner

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

Use of the substance/mixture

care agent

corrosion preventing agent

1.3. Details of the supplier of the safety data sheet

Company name: CTP-GmbH

Street: Saalfelder Strasse 35
Place: D-07338 Leutenberg

Telephone: +4936734/230-0 Telefax: +4936734/230-22

e-mail: hotline@ctp-gmbh.de

Contact person: Jens Moeller, Dipl.-Chem. Telephone: +4936734/230-19

Internet: www.ctp-gmbh.de

1.4. Emergency telephone For Germany: +49-361-730730 (24 hours/7 days)

number:

Further Information

Article Number: 33306, 33300, 33301, 33309, 33305, 33303

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Acute toxicity: Acute Tox. 4 Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Specific target organ toxicity - repeated exposure: STOT RE 2

Hazard Statements:
Harmful if swallowed.
Causes skin irritation.
Causes serious eye irritation.

May cause damage to organs through prolonged or repeated exposure.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazardous components which must be listed on the label

ethanediol, ethylene glycol 2-aminoethanol, ethanolamine Signal word: Warning

Pictograms:





Hazard statements

H302 Harmful if swallowed.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.





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H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves and eye/face protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P314 Get medical advice/attention if you feel unwell.

P501 Dispose of this material and its container to hazardous or special waste collection point.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Additives

corrosion preventing agent

Hazardous components

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	Classification according to Regula			
107-21-1	ethanediol, ethylene glycol	65 - < 70 %		
	203-473-3		01-2119456816-28	
	Acute Tox. 4, STOT RE 2; H302 I			
N/A	polymers, org. phosphorus comp	1 - < 5 %		
	Skin Irrit. 2, Eye Irrit. 2; H315 H3			
N/A	carboxylic acid with ethanolamine	1 - < 5 %		
	Skin Irrit. 2, Eye Irrit. 2; H315 H3	9		
141-43-5	2-aminoethanol, ethanolamine	1 - < 5 %		
	205-483-3	603-030-00-8		
	Acute Tox. 4, Acute Tox. 4, Acute			
12179-04-3	disodium tetraborate pentahydrat	1 - < 5 %		
	215-540-4		01-2119490790-32	
	Repr. 1B, Eye Irrit. 2; H360FD H3			

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

Further Information

This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH:

>= 0,1 % disodium tetraborate decahydrate; borax decahydrate

SECTION 4: First aid measures

4.1. Description of first aid measures





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General information

Remove affected person from the danger area and lay down.

Remove contaminated, saturated clothing immediately.

After inhalation

Move victim to fresh air. Put victim at rest and keep warm.

In case of breathing difficulties administer oxygen. Consult physician.

After contact with skin

After contact with skin, wash immediately with: Water and soap.

After contact with eves

If product gets into the eye, keep e4yelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an opthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water.

Give activated carbon, in order to reduce the resorption in the gastro-enteric tract.

Do NOT induce vomiting. Consult physician.

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

Frequently or prolonged contact with skin may cause dermal irritation.

Irritation of eyes: Irritant effect possible.

After ingestion: Harmful. Irritant and corrosive effects.

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

Symptoms: Dizziness. Nausea. unconsciousness. Nature of Hazard: Heart circulatory collapse.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray. alcohol resistant foam. Dry extinguishing powder. Carbon dioxide (CO2).

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

No information available.

5.3. Advice for firefighters

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

Additional information

Contaminated fire-fighting water must be collected separately.

Contaminated fire-fighting water must not get into the sewerage network.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Provide adequate ventilation.

Remove all sources of ignition.

Avoid contact with skin and eyes.

Do not breathe gas/fumes/vapour/spray.

6.2. 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.





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6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Provide adequate ventilation.

6.4. Reference to other sections

No data

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Keep container tightly closed in a cool, well-ventilated place.

Advice on protection against fire and explosion

Keep away from sources of ignition. - No smoking.

Concentrated vapors are heavier than air. Vapours may form explosive mixtures with air.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep in a cool, well-ventilated place. Storage temperature: at below °C: 50 °C

Advice on storage compatibility

Should be stored seperately from oxidizing agents.

Further information on storage conditions

Hygroscopic product.

Store container under dry conditions and firmly closed.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
141-43-5	2-Aminoethanol	1	2.5		TWA (8 h)	WEL
		3	7.6		STEL (15 min)	WEL
107-21-1	Ethane-1,2-diol, vapour	20	52		TWA (8 h)	WEL
		40	104		STEL (15 min)	WEL

8.2. Exposure controls

Protective and hygiene measures

Take off immediately all contaminated clothing

Do not breathe gas/fumes/vapour/spray.

Avoid contact with skin and eyes.

When using do not eat, drink or smoke.

Wash hands before breaks and after work.

Eye/face protection

Tightly sealed safety glasses.

Hand protection

Tested protective gloves are to be worn:

CR (polychloroprenes, Chloroprene rubber). Butyl rubber.





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Material thickness: 0,5 mm penetration time: >= 8 h

NBR (Nitrile rubber).

Material thickness: 0,35 mm penetration time: >= 8 h

Skin protection

Wear suitable solvent-proof protective clothing according to EN 465.

Respiratory protection

In case of accumulation of fumes/aerosols, provide adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: liquid

Colour: colourless, clear

Odour: odourless

Test method

pH-Value (at 20 °C): 9 - 10

Changes in the physical state

Ignition temperature: > 400 °C

Density (at 20 °C): 1,09 g/cm³

Water solubility: easily soluble. (at 20 °C)

9.2. Other information

No data

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

No decomposition when used as intended.

10.3. Possibility of hazardous reactions

No dangerous reactions are known.

10.4. Conditions to avoid

UV-solarization/sunlight.

Keep away from moisture.

Do not store at temperatures over: 50 °C No decomposition when used as intended.

10.5. Incompatible materials

Oxidizing agents, strong. acid, concentrated.

Alkalis (alkalis), concentrated.

10.6. Hazardous decomposition products

nitrogen oxides (NOx).

SECTION 11: Toxicological information





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11.1. Information on toxicological effects

ATEmix calculated

ATE (oral) 753,8 mg/kg

Acute toxicity

CAS No	Chemical name						
	Exposure routes	Method	Dose	Species	Source		
107-21-1	ethanediol, ethylene glycol						
	oral	LD50	4700 mg/kg	Rat	GESTIS		
	dermal	LD50	10600 mg/kg	Rabbit	GESTIS		
141-43-5	2-aminoethanol, ethanolamine						
	oral	LD50	1515 mg/kg	Rat			
	dermal	LD50	1025 mg/kg	Rabbit	IUCLID		
	inhalative vapour	ATE	11 mg/l				
	inhalative aerosol	ATE	1,5 mg/l				
12179-04-3	disodium tetraborate pentahydrate; borax pentahydrate						
	inhalative (4 h) vapour	LC50	>2,03 mg/l	Rat			

Irritation and corrosivity

In case of prolonged or frequently repeated skin contact: Irritant.

Following eye contact: Irritant.

After ingestion: Irritant and corrosive effects

SECTION 12: Ecological information

12.1. Toxicity

CAS No	Chemical name						
	Aquatic toxicity	Method	Dose	[h] [d]	Species	Source	
141-43-5	2-aminoethanol, ethanolamine						
	Acute fish toxicity	LC50	150 mg/l	96 h	Onchorhynchus mykiss	IUCLID	
	Acute algae toxicity	ErC50	22 mg/l	72 h	Desmodesmus subspicatus		
	Acute crustacea toxicity	EC50	65 mg/l	48 h	Daphnia magna		

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No indication of bio-accumulation potential.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
107-21-1	ethanediol, ethylene glycol	-1,36
141-43-5	2-aminoethanol, ethanolamine	-1,91 (25°C)

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

No information available.





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Further information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Do not dispose with household waste.

Arrange about the exact waste code with the local waste disposal expert.

Have to add a Special treatment in compliance with official regulations in contact with approved waste disposal companies and with authorities in charge.

Contaminated packaging

Container must be completely emptied.

Cleaned containers may be recycled.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number:

14.2. UN proper shipping name:

14.3. Transport hazard class(es):

14.4. Packing group:

Other applicable information (land transport)

No dangerous good in sense of these transport regulations.

Inland waterways transport (ADN)

Other applicable information (inland waterways transport)

No dangerous good in sense of these transport regulations.

Marine transport (IMDG)

Other applicable information (marine transport)

No dangerous good in sense of these transport regulations.

Air transport (ICAO)

Other applicable information (air transport)

No dangerous good in sense of these transport regulations.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

No information available.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No information available.

SECTION 15: Regulatory information

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

National regulatory information

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.





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SECTION 16: Other information

Relevant H and EUH statements (number and full text)

H302 Harmful if swallowed.
H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H360FD May damage fertility. May damage the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

The receiver of our product is singulary 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.)