



Telefax: +4936734/230-22

according to Regulation (EC) No 1907/2006

#### Radiatorfreeze Protection red G12

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

## 1.1. Product identifier

Radiatorfreeze Protection red G12

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

#### Use of the substance/mixture

Anti-freezing 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

e-mail: hotline@ctp-gmbh.de

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

Internet: www.ctp-ambh.de

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

number:

**Further Information** 

Article Number: 32040, 32041, 32042, 32044, 32045, 32046

# **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

## Regulation (EC) No. 1272/2008

Hazard categories:

Acute toxicity: Acute Tox. 4 Reproductive toxicity: Repr. 2

Specific target organ toxicity - repeated exposure: STOT RE 2

Hazard Statements: Harmful if swallowed.

Suspected of damaging the unborn child.

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-ethylhexanoic acid

Signal word: Warning

Pictograms:





# **Hazard statements**

H302 Harmful if swallowed.

H361d Suspected of damaging the unborn child.

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.





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P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash hands thoroughly after handling.

P281 Use personal protective equipment as required.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P405 Store locked up.

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

Anti-freezing agent corrosion preventing agent Inhibitor(s).

# **Hazardous components**

CAS No	Chemical name			Quantity		
	EC No	Index No	REACH No			
	Classification according to Regulation (EC) No. 1272/2008 [CLP]					
107-21-1	ethanediol, ethylene glycol					
	203-473-3		01-2119456816-28			
	Acute Tox. 4, STOT RE 2; H302 H373					
149-57-5	2-ethylhexanoic acid					
	205-743-6	607-230-00-6				
	Repr. 2; H361d ***					
1310-58-3	caustic potash, potassium hydroxide					
	215-181-3	019-002-00-8				
	Acute Tox. 4, Skin Corr. 1A; H302 H314					

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

## **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

#### **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 eyes

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.





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### 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

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.

## 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

High skid risk because of leaking or spilled product.

## **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.

### Advice on storage compatibility

Should be stored seperately from oxidizing agents.





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## Further information on storage conditions

Hygroscopic product.

#### 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
107-21-1	Ethane-1,2-diol, vapour	20	52		TWA (8 h)	WEL
		40	104		STEL (15 min)	WEL
1310-58-3	Potassium hydroxide	-	-		TWA (8 h)	WEL
		-	2		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.

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

Provide for good ventilation, when develop aerosols/mist.

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: colored/red
Odour: characteristic

Test method

pH-Value (at 20 °C): 7,5 - 8,5

Changes in the physical state





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Melting point:	-12 °C						
Initial boiling point and boiling range:	197 °C						
Flash point:	111 °C						
Lower explosion limits:	3,2 vol. %						
Upper explosion limits:	53 vol. %						
Ignition temperature:	400 °C						
Vapour pressure: (at 20 °C)	0,5 hPa						
Density (at 20 °C):	1,10 g/cm³						
Water solubility: (at 20 °C)	easily soluble.						

# 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.

No decomposition when used as intended.

# 10.5. Incompatible materials

Oxidizing agents, strong.

# 10.6. Hazardous decomposition products

No hazardous decomposition products are known.

# **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

## **ATEmix calculated**

ATE (oral) 555,6 mg/kg





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## **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		
149-57-5	2-ethylhexanoic acid						
	oral	LD50	3000 mg/kg	Rat			
	dermal	LD50	> 2000 mg/kg	Rabbit			
1310-58-3	caustic potash, potassium hydroxide						
	oral	LD50	273 mg/kg	Rat	RTECS		

### Sensitising effects

no danger of sensitization.

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

fish toxicity:

Oncorhynchus mykiss LC50 > 18.500 mg/l 96h

aquatoxicity:

Daphnia EC50 > 10.000 mg/l 48h

CAS No	Chemical name								
	Aquatic toxicity	Method	Dose	[h]   [d]	Species	Source			
149-57-5	2-ethylhexanoic acid								
	Acute fish toxicity	LC50	> 250 mg/l	96 h	Leuciscus idus				
	Acute algae toxicity	ErC50	61 mg/l	72 h	Algae				
	Acute crustacea toxicity	EC50	85,4 mg/l	48 h	Daphnia magna				
1310-58-3	caustic potash, potassium hydroxide								
	Acute fish toxicity	LC50	80 mg/l	96 h	Gambusia affinis	IUCLID			

## 12.2. Persistence and degradability

Biological degradation: 56 % 28h

Easily biodegradable (concerning to the criteria of the OECD)

## 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
149-57-5	2-ethylhexanoic acid	2,7

# 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. Carry out a burning of harzardous waste according to official regulations.

#### Waste disposal number of waste from residues/unused products

160114 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; end-of-life vehicles from different means of

transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08); antifreeze fluids containing hazardous

substances

Classified as hazardous waste.

#### Waste disposal number of contaminated packaging

160114 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; end-of-life vehicles from different means of

transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08); antifreeze fluids containing hazardous

substances

Classified as hazardous waste.

## Contaminated packaging

Container must be completely emptied.

Explosive.

Do not pierce, cut up or weld unclean container.

# **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.





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### 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.

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

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

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.
H361d Suspected of damaging 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.)