

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## Autoprofi Radiator Flush

Print date: 22.09.2014

Product code: 1499

Page 1 of 7

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

#### 1.1. Product identifier

Autoprofi Radiator Flush

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

##### Use of the substance/mixture

Cleaning agent for radiators

#### 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 number:

For Germany: +49-361-730730 (24 hours/7 days)

#### Further Information

Article Number: 43227

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Indications of danger: C - Corrosive

R phrases:

Causes severe burns.

##### GHS classification

Hazard categories:

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Hazard Statements:

Causes skin irritation.

Causes serious eye irritation.

#### 2.2. Label elements

Signal word: Warning

Pictograms: GHS07



##### Hazard statements

H315	Causes skin irritation.
H319	Causes serious eye irritation.

##### Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
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

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## Autoprofi Radiator Flush

Print date: 22.09.2014

Product code: 1499

Page 2 of 7

P337+P313 present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/attention.

### 2.3. Other hazards

No information available.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Chemical characterization

Organic and inorganic acids  
corrosion preventing agent  
Cleaning agent.

#### Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
226-218-8	sulfamic acid, sulphamic acid, sulphamidic acid	10 - < 15 %
5329-14-6	Xi - Irritant R36/38-52-53	
016-026-00-0	Eye Irrit. 2, Skin Irrit. 2, Aquatic Chronic 3; H319 H315 H412	
201-069-1	citric acid	1 - < 5 %
5949-29-1	Xi - Irritant R36	
	Eye Irrit. 2; H319	

Full text of R-, H- and EUH-phrases: 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. Move victim to fresh air. Put victim at rest and keep warm.  
Immediately remove any wetted clothing, shoes or stockings.

#### After inhalation

Provide fresh air. In case of difficulties of breathing consult physician.

#### After contact with skin

Change contaminated clothing. After contact with skin, wash immediately with plenty of water and soap.  
Wash contaminated clothing prior to re-use.

#### After contact with eyes

Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart.  
Consult physician.

#### After ingestion

Rinse mouth immediately and drink plenty of water.  
Do not induce vomiting. Consult physician.

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

Irritant effect on the skin: Irritant and corrosive effects.  
Following eye contact: Risk of serious damage to eyes.  
After ingestion: Harmful. Irritant and corrosive effects.

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

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Autoprofi Radiator Flush**

Print date: 22.09.2014

Product code: 1499

Page 3 of 7

The following symptoms may occur:  
Coughing. Nausea. shortage of breath. Belly-ache.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Extinguishing powder.  
Sand.  
alcohol resistant foam.

**Unsuitable extinguishing media**

High power water jet.

**5.2. Special hazards arising from the substance or mixture**

Sulphur dioxide (SO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>). Ammonia.

**5.3. Advice for firefighters**

No information available.

**Additional information**

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

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Provide adequate ventilation. Avoid contact with skin and eyes.

**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**

Prevent spreading of spillages (e.g. by oil barrier).  
Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

**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 place.  
Avoid contact with skin and eyes.

**7.2. Conditions for safe storage, including any incompatibilities****Advice on storage compatibility**

Do not store together with: Alkalis (alkalis).

**7.3. Specific end use(s)**

No information available.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****8.2. Exposure controls****Protective and hygiene measures**

Remove contaminated, saturated clothing immediately.

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## Autoprofi Radiator Flush

Print date: 22.09.2014

Product code: 1499

Page 4 of 7

Avoid contact with skin and eyes.

**Eye/face protection**

Wear tightly sealed safety glasses against possible splashes into the eyes.

**Hand protection**

Tested protective gloves are to be worn: Butyl rubber.

### SECTION 9: Physical and chemical properties

**9.1. Information on basic physical and chemical properties**

Physical state:	liquid, clear
Colour:	light yellow
Odour:	odourless

**Test method**

pH-Value (at 20 °C):	0-1
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**Changes in the physical state**

Melting point:	< 0 °C
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Initial boiling point and boiling range:	> 100 °C
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Density (at 20 °C):	1,07 g/cm³
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Water solubility: (at 20 °C)	easily soluble.
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**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**

No decomposition when used as intended.

**10.5. Incompatible materials**

Oxidizing agents. Alkalis (alkalis), concentrated.

**10.6. Hazardous decomposition products**Sulphur dioxide (SO<sub>2</sub>), nitrogen oxides (NO<sub>x</sub>), Ammonia.

### SECTION 11: Toxicological information

**11.1. Information on toxicological effects**

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## Autoprofi Radiator Flush

Print date: 22.09.2014

Product code: 1499

Page 5 of 7

### Acute toxicity

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
5329-14-6	sulfamic acid, sulphamic acid, sulphamidic acid				
	oral	LD50	3160 mg/kg	Rat	
5949-29-1	citric acid				
	oral	LD50	5400 mg/kg	mouse.	
	dermal	LD50	>2000 mg/kg	Rat	

### Irritation and corrosivity

Irritant effect on the skin: Irritant and corrosive effects

Following eye contact: Risk of serious damage to eyes.

### Sensitising effects

none

## SECTION 12: Ecological information

### 12.1. Toxicity

CAS No	Chemical name				
	Aquatic toxicity	Method	Dose	[h]   [d]	Species
5329-14-6	sulfamic acid, sulphamic acid, sulphamidic acid				
	Acute fish toxicity	LC50	70,3 mg/l	96 h	Pimephales promelas
5949-29-1	citric acid				
	Acute fish toxicity	LC50	440 mg/l	96 h	Leuciscus idus
	Acute algae toxicity	ErC50	425 mg/l	96 h	Scenedesmus subspicatus
	Acute crustacea toxicity	EC50	1535 mg/l	48 h	Daphnia magna

### 12.3. Bioaccumulative potential

No information available.

### 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.

### Further information

Do not allow to enter into surface water or drains.

product is acid. The product needs to apply neutralizing agents before draining to wastewater treatment plants.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Advice on disposal

Do not dispose with household waste.

Do not allow to enter into surface water or drains.

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

product is acid. The product needs to apply neutralizing agents before draining to wastewater treatment plants.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Autoprofi Radiator Flush**

Print date: 22.09.2014

Product code: 1499

Page 6 of 7

**SECTION 14: Transport information****Land transport (ADR/RID)**

**14.1. UN number:** UN2967  
**14.2. UN proper shipping name:** SULPHAMIC ACID  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** III  
Hazard label: 8



Classification code: C2  
Special Provisions: -  
Limited quantity: 5 kg  
Transport category: 3  
Hazard No: 80  
Tunnel restriction code: E

**Inland waterways transport (ADN)**

**14.1. UN number:** UN2967  
**14.2. UN proper shipping name:** SULPHAMIC ACID  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** III  
Hazard label: 8



Classification code: C2  
Special Provisions: -  
Limited quantity: 5 kg

**Marine transport (IMDG)**

**14.1. UN number:** UN2967  
**14.2. UN proper shipping name:** SULPHAMIC ACID  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** III  
Hazard label: 8



Marine pollutant: -  
Special Provisions: -  
Limited quantity: 5 kg  
EmS: F-A, S-B

**Air transport (ICAO)**

**14.1. UN number:** UN2967  
**14.2. UN proper shipping name:** SULPHAMIC ACID

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## Autoprofi Radiator Flush

Print date: 22.09.2014

Product code: 1499

Page 7 of 7

**14.3. Transport hazard class(es):** 8

**14.4. Packing group:** III

Hazard label: 8



Special Provisions:

Limited quantity Passenger: 5 kg

IATA-packing instructions - Passenger: 860

IATA-max. quantity - Passenger: 25 kg

IATA-packing instructions - Cargo: 864

IATA-max. quantity - Cargo: 100 kg

### 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

#### EU regulatory information

##### Additional information

Contains:

5 - 15 % nonionic tensides

< 5 % anionic surfactants

##### 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 R-phrases (Number and full text)

- 36 Irritating to eyes.
- 36/38 Irritating to eyes and skin.
- 52 Harmful to aquatic organisms.
- 53 May cause long-term adverse effects in the aquatic environment.

#### Relevant H- and EUH-phrases (Number and full text)

- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H412 Harmful to aquatic life with long lasting effects.

#### 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 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.)*