



# SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

## Radiator Flush

**TEC-2000 LTD.**

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HERTS., SG4 9WQ, U.K.

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Version Number: 8

Dated: 14.11.2016

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

#### 1.1 Product Identifier

Trade Name: TEC-2000 Radiator Flush

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

Application of the substance / the preparation: Cooling system cleaner.

#### 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: TEC-2000 LTD., P.O. Box 285, Hitchin, Herts., SG4 9WQ, U.K.

#### 1.4 Emergency telephone number

0044 (Ø) 1462-433 660 - 0044 (Ø) 7831 105386 (24hrs)

UK - National Poisons Emergency: +44 870 600 6266 (24h - health professionals only).

Ireland - National Poisons Information Centre: +353 1 8379964.

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

#### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008:

The product is classified and labelled according to the CLP regulation.

#### Hazard pictograms:



GHS07

Signal word:

Warning

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.

P103 Read label before use.

P280 Wear protective gloves/protective clothing/eye protection/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.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention..

#### 2.3 Other hazards

##### Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

**SECTION 3: Composition/information on ingredients****3.2 Mixtures****Hazardous components:**

CAS: 5329-14-6	sulphamidic acid	10-<25%
EINECS: 226-218-8		
Index number: 016-026-00-0	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Aquatic Chronic 3, H412	

**Additional information:** For the wording of the listed risk phrases refer to section 16.

**SECTION 4: First aid measures****4.1 Description of first aid measures**

**After inhalation:** Move patient to fresh air, if symptoms persist consult a doctor.

**After skin contact:** Immediately wash with water and soap and rinse thoroughly.

**After eye contact:** Rinse opened eye for several minutes under running water.

**After swallowing:** Do not induce vomiting; call for medical help immediately.

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

No further relevant information available.

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

No further relevant information available.

**SECTION 5: Firefighting Measures****5.1 Extinguishing media****Suitable extinguishing agents:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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

No further relevant information available.

**5.3 Advice for firefighters****Protective equipment**

Wear self-contained respiratory protective device.

**SECTION 6: Accidental Release Measures****6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment.

**6.2 Environmental precautions**

Do not allow to enter sewers/ surface or ground water.

**6.3 Methods and material for containment and cleaning up**

Dispose of the material collected according to regulations.

**6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

**SECTION 7: Handling and Storage**

**7.1 Precautions for safe handling:** No special measures required.

**Information about fire - and explosion protection:**

No special measures required.

**7.2 Conditions for safe storage, including any incompatibilities****Requirements to be met by storerooms and receptacles:**

Store in a cool, dry place in tightly closed receptacles.

**Information about storage in one common storage facility:**

Store away from oxidising agents.

**Further information about storage conditions:**

None.

**7.3 Specific end use(s):** No further relevant information available.

**SECTION 8: Exposure Controls/Personal Protection****8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**Additional information:** The lists valid during the making were used as basis.

**8.2 Exposure controls****Personal protective equipment**

**Respiratory protection:** Not required.

**Protection of hands:**

Protective gloves.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

**Eye protection:**

Safety glasses with side-shields (EN 166).

**Body protection:** Protective work clothing.

**SECTION 9: Physical And Chemical Properties****9.1 Information on basic physical and chemical properties****General Information****Appearance:**

**Form:** Liquid.

**Colour:** Colourless

**Odour:** Odourless.

**Odour threshold:** Not determined.

**pH-value:** Not determined.

**Melting point/Melting range:** Not determined.

**Boiling point/Boiling range:** Not determined.

**Flash point:** Not determined.

**Flammability (solid, gaseous):** Not determined.

**Ignition temperature:** Not determined.

**Decomposition temperature:** Not determined.

**Danger of explosion:** Product does not present an explosion hazard.

**Explosion limits:**

**Lower:** Not determined.

**Upper:** Not determined.

**Oxidising properties:** Not determined.

**Vapour pressure at 20 °C:** Not determined.

**Density:** Not determined.

**Relative density:** Not determined.

**Vapour density:** Not determined.

**Evaporation rate:** Not determined.

**Solubility in / Miscibility with**

**Water:** Not determined.

**Partition coefficient (n-octanol/water):** Not determined.

**Viscosity:**

**Dynamic:** Not determined.

**Kinematic:** Not determined.

**Solids content:** 15%

**9.2 Other information:** No further relevant information available.

**SECTION 10: Stability and Reactivity**

- 10.1 Reactivity: No further relevant information available.
- 10.2 Chemical stability  
**Thermal decomposition / conditions to be avoided:**  
 No decomposition if used and stored according to specifications.
- 10.3 Possibility of hazardous reactions: No dangerous reactions known.
- 10.4 Conditions to avoid: No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No further relevant information available.

**SECTION 11: Toxicological Information**

## 11.1 Information on toxicological effects

**Acute toxicity****LD/LC50 values:****5329-14-6 sulphamidic acid**

Oral	LD50	3160 mg/kg (rat)
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**Primary irritant effect:**

- Skin corrosion/irritation:** Irritant to skin and mucous membranes.
- Serious eye damage/irritation:** Irritating effect.
- Respiratory or skin sensitisation:** No sensitising effects known.

**SECTION 12: Ecological information**

## 12.1 Toxicity

**Aquatic toxicity:** No further relevant information available.

12.2 Persistence and degradability: No further relevant information available.

12.3 Bioaccumulative potential: No further relevant information available.

12.4 Mobility in soil: No further relevant information available.

**General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**12.5 Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

12.6 Other adverse effects: No further relevant information available.

**SECTION 13: Disposal Considerations**

## 13.1 Waste treatment methods

- Recommendation:** Do not allow product to reach sewage system.
- Uncleaned packaging Recommendation:** Disposal must be made according to official regulations. Packaging that may not be cleansed must be disposed of in the same manner as the product.

**SECTION 14: Transport Information**

## 14.1 UN Number

ADR, ADN, IMDG, IATA Not applicable.

## 14.2 UN proper shipping name

ADR, ADN, IMDG, IATA Not applicable.

## 14.3 Transport hazard class(es)

ADR, ADN, IMDG, IATA  
 Class Not applicable.

## 14.4 Packing group

ADR, IMDG, IATA Not applicable.

## 14.5 Environmental hazards

**Marine pollutant:** No

14.6 Special precautions for user Not applicable.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

## SECTION 15: Regulatory Information.

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

Directive 2012/18/EU

Named dangerous substances – ANNEX I: None of the ingredients are listed.

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other Information.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

### Relevant phrases

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

### 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 Harmonised 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 (division of the American Chemical Society)
LC50:	Lethal concentration, 50 percent
LD50:	Lethal dose, 50 percent
Skin Irrit. 2:	Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2:	Serious eye damage/eye irritation, Hazard Category 2
Aquatic Chronic 3:	Hazardous to the aquatic environment - Chronic Hazard, Category 3