



Safety Data Sheet

according to Regulation (EC)
No 1907/2006 (REACH) as amended

RADIATOR FLUSH

TEC-2000 LTD.

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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

Technical function TO REMOVE LIME-SCALE AND RUST FROM AUTOMOTIVE COOLING SYSTEMS

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Name or trade name TEC-2000 LIMITED
Address PO Box 285, Hitchin, Hertfordshire, SG4 9WQ, United Kingdom
VAT Reg No GB111112414
Phone +44 (0) 1462 433 660
E-mail mike@tec-2000.co.uk
Web address www.tec-2000.co.uk

Competent person responsible for the safety data sheet

Name TEC-2000 LIMITED
E-mail mike@tec-2000.co.uk

1.4 Emergency telephone number

0044 (Ø) 7831 105386 (24hrs)
NHS Direct: 111
UK-National Poisons Information Service (NPIS): 0344 892 0111 (healthcare professionals only).
Ireland - National Poisons Information Centre (NPIC): (01) 809 2566 (healthcare professionals only).

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:



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.
P264 Wash thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
P321 Specific treatment (see on this label).
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P362+P364 Take off contaminated clothing and wash it before reuse
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**

General information: Immediately remove any clothing soiled by the product.

After inhalation: In case of unconsciousness place patient stably in the recovery position.

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

After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

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:**

CO₂, 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**

Not Required.

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 official 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.

No special precautions are necessary if used correctly.

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:

No special measures required.

Further information about storage conditions:

Keep container tightly closed.

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

Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Avoid contact with the eyes and skin.

Respiratory protection:

Not required.

Hand protection

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



Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/the preparation/ the chemical mixture.

Select the glove material based on a consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material:

The exact break through time must be determined by the manufacturer of the protective gloves.

Eye / Face protection:



Safety goggles (EN 166).

Goggles recommended during refilling

Body protection: Protective work clothing.

SECTION 9: Physical And Chemical Properties

9.1 Information on basic physical and chemical properties

General Information

Physical state:	Fluid
Colour:	Water white.
Odour:	Faint characteristic
Odour threshold:	Not determined.
Melting point/freezing point:	Not determined.
Boiling point or initial boiling point and boiling range:	Not determined.
Flammability	Not determined.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	Not determined.
Decomposition temperature:	Not determined.
pH	Not determined.
Viscosity:	
Kinematic viscosity:	Not determined.
VOC (EC):	
Dynamic:	Not determined.
Solubility:	
Water:	Not determined.
Partition coefficient n-octanol/water (log value):	Not determined.
Vapour pressure:	Not determined.
Density and/or relative density	
Density:	Not determined.
Relative density	1.08
Vapour density	Not determined.

9.2 Other information

Appearance:	
Form:	Liquid.
Ignition temperature:	Not determined.
Explosive properties:	Product does not present an explosion hazard.

Not determined:	
Solids content:	15.0 %
Softening point/range	
Oxidising properties:	Not determined.
Evaporation rate:	Not determined.
Information with regard to physical hazard classes	
Explosives:	Not applicable.
Flammable gases:	Not applicable.
Aerosols:	Not applicable.
Oxidising gases:	Not applicable.
Gases under pressure:	Not applicable.
Flammable liquids:	Not applicable.
Flammable solids:	Not applicable.
Self-reactive substances and mixtures:	Not applicable.
Pyrophoric liquids:	Not applicable.
Pyrophoric solids:	Not applicable.
Self-heating substances and mixtures:	Not applicable.
Substances and mixtures, which emit flammable gases in contact with water:	Not applicable.
Oxidising liquids:	Not applicable.
Oxidising solids:	Not applicable.
Organic peroxides:	Not applicable.
Corrosive to metals:	Not applicable.
Desensitised explosives:	Not applicable.

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.
Sulphur oxides (SO_x).

SECTION 11: Toxicological Information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

LD/LC50 values:		
5329-14-6 sulphamidic acid		
Oral	LD50	3,160 mg/kg (rat)
109-46-6 1,3-dibutyl-2-thiourea		
Oral	LD50	350 mg/kg (rat)

Skin corrosion/irritation:

Causes skin irritation.

Serious eye damage/irritation:

Causes serious eye irritation.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties
None of the ingredients are listed.

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.

12.5 Results of PBT and vPvB assessment**PBT:**

Not applicable.

vPvB:

Not applicable.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects:**Additional environmental information:****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.

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 or ID number****ADR, IMDG, IATA**

UN1760

14.2 UN proper shipping name**ADR**

1760 CORROSIVE LIQUID, N.O.S. (SULPHAMIC ACID)

IMDG, IATA

CORROSIVE LIQUID, N.O.S. (SULPHAMIC ACID)

14.3 Transport hazard class(es)**ADR, IMDG, IATA****Class**

8 Corrosive substances.

Label

8

14.4 Packing group**ADR, IMDG, IATA**

III

14.5 Environmental hazards**Marine pollutant:**

No

14.6 Special precautions for user

Warning: Corrosive substances.

Hazard identification number (Kemler code):

80

EMS Number:

F-A,S-B

Segregation groups:

Acids

Stowage Category

A

Stowage Code

SW2 Clear of living quarters.

14.7 Maritime transport in bulk according to**IMO instruments**

Not applicable.

Transport/Additional information:**ADR****Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

Tunnel restriction code:

E

IMDG**Limited quantities (LQ)**

5L

Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

SECTION 15: Regulatory Information.**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Quantities:****Canada Non-Domestic Substances List (NDSL)**

None of the ingredients are listed.

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 relatif au transport international 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 – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3