

**1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING**

**1.1 Product Identifier**

Material name : Sol-X Radiator Flush  
Product code : SXRF350

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

Product use : Radiator Cleaner

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

Manufacturer/Supplier: Central Solutions (GB) Ltd.,  
Sol-X House,  
Windmill Lane,  
Norton  
Doncaster  
DN6 9AT

Tel. : 01302 708895  
Fax. : 01302 708895

Email (for SDSs) : info@solxsolutions.com

**1.4 Emergency tel. no. : 01302 708895 (Office hours)**

**2. HAZARDS IDENTIFICATION**

**2.1 Classification of the substance or mixture**

**According to 1272/2008/EC: Classification, Labelling and Packaging of Substances and Mixtures (CLP) Regulation:**

Skin Irrit.2; H315  
Eye Irrit.2; H319  
Aq.Chronic 3; H412

**2.2 Label elements**

**Labelling according to EC Directives: 1272/2008/EC:**

Signal word: Warning

Pictogram(s):



|               |              |   |
|---------------|--------------|---|
| H-Statements: | H315         | Causes skin irritation.   |
|               | H319         | Causes serious eye irritation.  |
|               | H412         | Harmful to aquatic life with long lasting effects.  |
| P-Statements: | P280         | Wear protective gloves/protective clothing/eye protection/face protection.  |
|               | P302+352     | IF ON SKIN: Wash with soap and water.   |
|               | P305+351+338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. |
|               | P337+313     | If eye irritation persists, get medical advice/attention.   |
|               | P273         | Avoid release to the environment.   |
|               | P501         | Dispose of in accordance with local/national regulations.   |

**2.3 Other hazards**

No data available.

**3. COMPOSITION/INFORMATION ON INGREDIENTS****3.2 Mixtures:****Hazardous components**

| Chemical Name  | CAS No./<br>EC No./<br>Reg. No | Classification (1272/2008/EC)                                 | Content |
|----------------|--------------------------------|---|---------|
| SULPHAMIC ACID | 5329-14-6<br>226-218-8<br>-    | Skin Irrit.2; H315<br>Eye Irrit.2; H319<br>Aq.Chronic 3; H412 | 10-25%  |

See Section 16 for the full text of the H-statements noted above.

**4. FIRST AID MEASURES****4.1 Description of first aid measures**

**General advice:** Remove casualty from exposure ensuring one's own safety whilst doing so. Take off any contaminated clothing and shoes/boots immediately. Never give anything by mouth to an unconscious person. This product is of low acute toxicity.

**Skin contact:** Wash with soap and water. Seek medical advice if irritation develops.

**Eye contact:** Rinse with water for 10 minutes and seek medical advice if irritation persists.

**Ingestion:** Rinse mouth with water and give water to drink. Do not induce vomiting. Seek medical advice.

**Inhalation:** Unlikely to be a cause for concern in normal circumstances; remove to fresh air if affected..

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

May cause irritation to eyes, nose or throat.

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

See information above.

**5. FIRE-FIGHTING MEASURES****5.1 Extinguishing media**

Suitable extinguishing media: Product is non-flammable; use appropriate media for surrounding area.

Unsuitable extinguishing media: High volume water jet

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

Specific hazards during fire-fighting: Irritating/toxic fumes may be released at elevated temperatures.

**5.3 Advice for fire-fighters:**

Special protective equipment: Wear self-contained breathing apparatus. Use personal protective equipment.

Further information: Standard procedure for chemical fires. Use water spray to cool unopened containers. Do not allow fire run-off to enter drains.

**6. ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

Evacuate personnel to safe areas. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Use personal protective equipment to deal with spillage.

**6.2 Environmental precautions**

Prevent product from entering drains. If product enters waterways, inform relevant authorities.

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

Wipe up any liquid spillage with absorbent material such as sand, earth, or vermiculite, and place in a labelled container for disposal in accordance with local/national regulations.

**6.4 References to other sections:** See sections 8 and 13 for personal protection and disposal information.

**7. HANDLING AND STORAGE****7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Handle with care.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in a cool, well ventilated area. Protect from frost, heat and sunlight. Incompatible with oxidising agents. Keep away from food, drink and animal feed.

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

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****8.1 Control parameters**

No ingredients have been assigned a workplace exposure limit.

**8.2 Exposure controls**

**Engineering measures:** Ensure there is sufficient ventilation of the area.

**Personal protective equipment**

**Respiratory protection:** Unlikely to be necessary in normal circumstances.

**Hand protection:** Wear chemically resistant gloves such as butyl rubber approved to standard EN 374.

**Eye protection:** Chemical splash goggles to standard EN166.

**Skin and body protection:** General workwear. Remove and replace contaminated clothing.

**Hygiene measures:** Handle in accordance with good industrial hygiene and safety practices. Do not eat or drink whilst using the product. Wash hands before breaks and at the end of the work day. Wash contaminated clothing before re-use.

**Environmental exposure controls:** Do not discharge into drains or rivers.

**9. PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

|  |                   |
|--|-------------------|
| State and colour                       | Colourless liquid |
| Odour                                  | Mild              |
| Odour Threshold                        | No data available |
| Flammability                           | Non-Flammable     |
| Flash point                            | No data available |
| Lower explosion limit                  | No data available |
| Upper explosion limit                  | No data available |
| Explosive properties                   | Not explosive     |
| Thermal decomposition                  | No data available |
| Auto-ignition temperature              | No data available |
| Oxidising properties                   | Non-oxidising     |
| Solubility in water                    | Soluble           |
| Solubility in other solvents           | No data available |
| pH                                     | 2-3               |
| Melting point/range                    | No data available |
| Boiling point/range                    | No data available |
| Relative density                       | No data available |
| Vapour pressure                        | No data available |
| Vapour density                         | No data available |
| Partition coefficient: n-octanol/water | No data available |
| Viscosity (kinematic)                  | No data available |
| Evaporation rate                       | No data available |

**10. STABILITY AND REACTIVITY**

|   |  |
|---|--|
| 10.1 Reactivity                         | Generally non-reactive.                  |
| 10.2 Chemical stability                 | Stable under normal conditions.          |
| 10.3 Possibility of hazardous reactions | None if stored and used as directed.     |
| 10.4 Conditions to avoid                | None if stored and used as directed.     |
| 10.5 Incompatible materials             | Strong alkalis. Strong oxidising agents. |
| 10.6 Hazardous decomposition products   | Oxides of sulphur. Oxides of nitrogen.   |

**11. TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects****Acute toxicity**

| Chemical name  | Oral (LD50)       | Inhalation (LC50) | Dermal (LD50)     |
|----------------|-------------------|-------------------|-------------------|
| Sulphamic acid | >3160 mg/kg (Rat) | No data available | No data available |

|   |  |
|---|--|
| <b>Skin corrosion/irritation:</b>             | Causes skin irritation.                          |
| <b>Serious eye damage/eye irritation:</b>     | Causes eye irritation.                           |
| <b>Respiratory or skin sensitisation:</b>     | Not classed as a respiratory or skin sensitizer. |
| <b>Repeated dose toxicity:</b>                | No data available.                               |
| <b>Carcinogenicity:</b>                       | Not carcinogenic.                                |
| <b>Mutagenicity:</b>                          | Not mutagenic.                                   |
| <b>Toxicity for reproduction:</b>             | Not toxic for reproduction.                      |
| <b>Specific target organ toxicity (STOT):</b> | No data available.                               |

**Further information** No data available.

**12. ECOLOGICAL INFORMATION**

|  |  |
|--|--|
| <b>12.1 Toxicity</b>                           | Harmful to aquatic life with long lasting effects. |
| <b>12.2 Persistence and degradability</b>      | Highly persistent.                                 |
| <b>12.3 Bioaccumulative potential</b>          | Low potential for bioaccumulation.                 |
| <b>12.4 Mobility in soil</b>                   | Highly mobile.                                     |
| <b>12.5 Results of PBT and vPvB assessment</b> | Contains no PBT or vPvB substances.                |
| <b>12.6 Other adverse effects</b>              | None known.  |

**13. DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

Disposal operations: Dispose of in accordance with local and national regulations. Do not dispose of waste into sewer.  
Do not dispose of together with household waste. Contact licensed waste disposal company.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Do not burn or use a cutting torch on the empty container.

**14. TRANSPORT INFORMATION**

- 14.1 UN number ADR/RID/ADN; IMDG; ICAO:** Not classified as dangerous goods.
- 14.2 UN proper shipping name:** Not classified as dangerous goods.
- 14.3 Transport hazard class(es) :** Not classified as dangerous goods.
- 14.4 Packing Group:** Not classified as dangerous goods.
- 14.5 Environment hazards Marine Pollutant:** No
- 14.6 Special precautions for user :** Not classified as dangerous goods.
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** Not applicable.

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

Volatile Organic Compounds (VOC) content: 0 g/l. (Directive 1999/13/EC)

**15.2 Chemical Safety Assessment**

A Chemical Safety Assessment has not been performed on this product.

**16. OTHER INFORMATION**

This safety data sheet is prepared in accordance with Commission Regulation (EU) No.453/2010.

**Full text of H-statements referred to under sections 2 and 3**

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

**Abbreviations and acronyms**

CAS: Chemical Abstract Service (division of the American Chemical Society). {Section 3}.  
STOT: Single Target Organ Toxicity (Section 11).  
TWA: Time-weighted average. (Section 8).  
STEL: Short-term exposure limit. (Section 8).  
EC50: Effective Concentration, 50 percent. (Section 12).  
LC50: Lethal Concentration, 50 percent. (Section 11/12).  
LD50: Lethal Dose, 50 percent. (Section 11).

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

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