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

1.1 Product Identifier

Material name : Cooling System Cleaner
Product code : RFPLWM300

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,
Tweed Farm, Lawn Lane
Fenwick
Doncaster
DN6 0HB

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./ EC No./ Reg. No	Classification (1272/2008/EC)	Content
SULPHAMIC ACID	5329-14-6 226-218-8 -	Skin Irrit.2; H315 Eye Irrit.2; H319 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 **o**xidising 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

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

12. ECOLOGICAL INFORMATION

12.1 Toxicity Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability Highly persistent.

12.3 Bioaccumulative potential Low potential for bioaccumulation.

12.4 Mobility in soil Highly mobile.

12.5 Results of PBT and vPvB assessment Contains no PBT or vPvB substances.

12.6 Other adverse effects 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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