

Productname : RADIATOR CLEANER **Creationdate :** 08.10.09
Ref.Nr.: BB13300-3-081009 **Replaces:** 31.10.07

1. IDENTIFICATION OF PRODUCT AND COMPANY

Productname : RADIATOR CLEANER
Bulk

Application : Additives

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2. HAZARD IDENTIFICATION

Health and Safety : According to EU-directive 99/45/EC not classified
Environment : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. COMPOSITION AND INFORMATION ON COMPONENTS

Hazardous ingredient	CAS-nr	EINECS	w/w %	symbol	R-phrases*	Notes
amines, tallow alkyl, ethoxylated	61791-26-2 (polymer)	500-153-8 (NLP)	<2.5	Xn,N	22-38-41-50/53	

(* Explanation risk-phrases : see chapter 16)

4. FIRST AID MEASURES

General Advice : The usual precautions for handling chemicals should be observed
If any symptoms should occur, seek medical advice.



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Contact with eyes : If substance has got into eyes, immediately wash out with plenty of water

Contact with skin : Wash with water and soap.

Inhalation : Inhalation is unlikely to occur

Ingestion : If swallowed accidentally, do not induce vomiting and seek medical advice.

5. FIRE-FIGHTING MEASURES

Flash point (without propellant): None

Explosion limits : upper limit : not available

lower limit : not available

Extinguishing media : not applicable

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : It is advisable to take precautions to avoid contact with skin and eyes when handling the product.

Environmental precautions : Do not allow to enter public sewers and watercourses

Cleaning methods : Wash spill site with water and detergent

7. HANDLING AND STORAGE

Handling procedures : The usual precautions for handling chemicals should be observed
Avoid contact with skin and eyes.

Storage procedures : Store frost free
Keep out of reach of children.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Personal protection : It is advisable to take precautions to avoid contact with skin and eyes when handling the product.

hands and skin : Wear suitable protective gloves

eyes : Wear safety goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES (for aerosols without propellant)

Apperance : physical state : Liquid

colour : colorless

odour : Odourless

Melting point/range : 0 °C

Boiling point/range : 100 °C

Relative density : 1.00 g/cm³ (@ 20°C)



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pH :	9.5 - 10.5
Vapour pressure :	not available
Relative vapour density :	not available
Solubility in water :	Soluble in water
Flash point :	None
Auto-ignition :	not available
Viscosity :	not available
Evaporation rate :	not applicable

10. STABILITY AND REACTIVITY

Conditions to be avoided :	Reacts with acids
Materials to be avoided :	None
Hazardous decomposition compounds :	No hazardous decomposition products known

11. TOXICOLOGICAL INFORMATION

Skin contact :	Mildly irritant
Eye contact :	Mildly irritating to eyes
Other information:	No experimental data available

12. ECOLOGICAL INFORMATION

Degradability : The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC)No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Hazardous ingredient	CAS-nr	method	
amines, tallow alkyl, ethoxylated	61791-26-2 (polymer)	LC50 fish	0.13 mg/l
		EC50 daphnia	0.17 mg/l

Other adverse effects : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Do not allow to enter public sewers and watercourses

13. WASTE DISPOSAL

Disposal should be in accordance with local, state or national legislation



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14. TRANSPORT

Road/Rail - ADR/RID :	---- Not classified
Sea - IMDG :	---- Not classified
Air - IATA/ICAO :	---- Not classified

15. REGULATORY INFORMATION

Risk-phrase(s) :	R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Safety-phrase(s) :	S2: Keep out of the reach of children. S24/25: Avoid contact with skin and eyes. S35: This material and its container must be disposed of in a safe way.

Regulation (EC) No 648/2004 on detergents: cationic surfactants < 5 %
benzisothiazolinone

16. OTHER INFORMATION

This product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with any legal regulation.
The information contained herewith is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It does not guarantee any specific properties.

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REVISIONS IN CHAPTRE : 12

***Explanation risk-phrases:**
R22: Harmful if swallowed.
R38: Irritating to skin.
R41: Risk of serious damage to eyes.
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

This Material Safety Data Sheet may already have been revised at this moment for reason such as legislation, availability of components and newly acquired experiences. The latest and only valid version of this Material Safety Data Sheet will be sent to you upon simple request or can be found on our website : www.crcind.com. We recommend you to register on this website for this product so you will be able to receive any future updated version automatically.