

Productname : RADIATOR CLEAN Creationdate : 06.05.20 Version : 1.1
 Ref.Nr.: BDS002574_3_20200506 (EN) Replaces: BDS002574_20200504

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

1.1. Product identifier

RADIATOR CLEAN
Bulk

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

Cleaners - Heavy duty

1.3. Details of the supplier of the safety data sheet

CRC Industries Europe BV
Touwslagerstraat 1
9240 Zele
Belgium
Tel.: +32(0)52/45.60.11
Fax.: +32(0)52/45.00.34
E-mail : hse@crcind.com

Subsidiaries		Tel	Fax
CRC Industries Finland Oy	Smedsgatan 3-5 LT4, PL62, 08101 LOJO	+358/(19)32.921	
CRC Industries France	6, avenue du marais, C.S. 90028, 95102 Argenteuil Cedex	01.34.11.20.00	01.34.11.09.96
CRC Industries Deutschland GmbH	Südring 9, D-76473 Iffezheim	(07229) 303 0	(07229)30 32 66
CRC INDUSTRIES IBERIA S.L.U.	GREMIO DEL CUERO-PARC.96, POLIGONO INDUSTRI. DE HONTORIA, 40195 SEGOVIA	0034/921.427.546	0034/921.436.270
CRC Industries Sweden	Laxfiskevägen 16, 433 38 Partille	0046/31 706 84 80	0046/31 27 39 91

1.4. Emergency telephone number

CRC Industries Europe, Belgium: Tel.: +32(0)52/45.60.11 (office hours)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Physical: Not classified
 Classification is based on test data.
Health: Eye irritation, category 2
 Causes serious eye irritation.



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Classification based on calculation method.

Environment: Hazardous to the aquatic environment, chronic category 4
 Harmful to aquatic life with long lasting effects.

Classification based on calculation method.

Other hazards : Contains:
 1,2-benzisothiazol-3(2H)-one
 May produce an allergic reaction.

Other hazards : Not classified

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictogram(s):



Signal word: Warning

Hazard statement(s): H319 : Causes serious eye irritation.
 H412 : Harmful to aquatic life with long lasting effects.

Precautionary statement(s): P102 : Keep out of reach of children.
 P280 : Wear protective gloves/protective clothing/eye protection/face protection.
 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.

Supplemental Hazard information: Contains:
 1,2-benzisothiazol-3(2H)-one
 May produce an allergic reaction.

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

2.3. Other hazards

No information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

Hazardous ingredient	Registration number	CAS-nr.	EC-nr	w/w %	Hazard Class and Category	Hazard statement	Notes
amines, tallow	-	61791-	500-	<2	Acute Tox. 4 Skin Irrit. 2 Eye	H302 H315 H318 H400 H410	



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alkyl, ethoxylated		26-2	153-8 (NLP)		Dam. 1, Aquatic Acute 1, Aquatic Chronic 1		
Disodium metasilicate anhydrous	01-2119449811-37	6834-92-0	229-912-9	<1	Met. Corr. 1, Skin Corr. 1B, Eye Dam. 1, STOT SE 3	H290,H314,H335	
1,2-benzisothiazol-3(2H)-one	-	2634-33-5	220-120-9	<0.05	Acute Tox. 2, Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 2	H330,H302,H315,H318,H317,H400,H411	X,R

Explanation notes

R : substance in plant protection or biocidal product regarded as being registered (art.15 REACH Regulation No 1907/2006)

X : SCL (specific concentration limit)in accordance with art.10 of CLP Regulation No 1272/2008

(* Explanation phrases : see chapter 16)

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

Contact with eyes :	If substance has got into eyes, immediately wash out with water for at least 15 minutes Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice
Contact with skin :	Wash with water and soap. Seek medical attention if irritation persists
Inhalation :	Fresh air, keep warm and at rest. Seek medical attention if ill effects occur
Ingestion :	If swallowed do not induce vomiting Seek medical advice

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

Inhalation :	May cause irritation. Symptoms : sore throat, cough
Ingestion :	May cause gastrointestinal disturbances Symptoms : sore throat, abdominal pain, nausea, vomiting
Skin contact :	May cause irritation. Symptoms : redness and pain
Eye contact :	Irritating to eyes Symptoms : redness and pain, impaired vision

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

General Advice :	If you feel unwell, seek medical advice (show the label where possible) If symptoms persist always call a doctor
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SECTION 5: Firefighting measures**5.1. Extinguishing media**

foam, carbon dioxide or dry agent



CRC Industries Europe bvba

Touwslagerstraat 1, 9240 Zele – Belgium

Tel (+32) (0) 52 / 45 60 11 – Fax (+32) (0) 52 / 45 00 34 – www.crcind.com

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5.2. Special hazards arising from the substance or mixture

May give off noxious and toxic fumes in a fire

5.3. Advice for firefighters

Keep container(s) exposed to fire cool, by spraying with water
In case of fire, do not breathe fumes
Wear breathing apparatus

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes.
Ensure adequate ventilation
Wear suitable protective clothing including eye/face protection.

6.2. Environmental precautions

Do not allow to enter public sewers and watercourses
If polluted water reaches drainage systems or water courses, immediately inform appropriate authorities

6.3. Methods and material for containment and cleaning up

Absorb spillage in suitable inert material

6.4. Reference to other sections

For further information see section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Do not breathe aerosols or vapours.
Ensure adequate ventilation
Avoid contact with skin and eyes.
Wash thoroughly after use
Wear protective gloves/protective clothing/eye protection/face protection.
Eyewash bottles should be available

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed, in a cool, well ventilated place.
Keep out of reach of children.

7.3. Specific end use(s)



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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits :

No information available

8.2. Exposure controls

Control procedures :	Ensure adequate ventilation
Personal protection :	Take precautions to avoid contact with skin and eyes when handling the product. It is good practice to wear gloves and to provide adequate ventilation whenever using the product. In all cases handle and use the product in accordance with good industrial hygiene practices.
inhalation :	In case of insufficient ventilation, wear suitable respiratory equipment.
recommended respiratory protection:	Air purifying respirator equipped with organic gas/vapor cartridge (type A)
hands and skin :	For accidental contact the use of disposable gloves should be sufficient provided they are changed immediately after a splash or spill may occur. If intentional contact is expected reusable gloves should be used with a breakthrough time greater than the total duration of the product use.
Recommended gloves:	(neoprene)
eyes :	Wear safety eyewear according to EN 166.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance : physical state :	Liquid.
colour :	Colourless to yellow.
odour :	Characteristic odor.
pH :	9.5-10.5
Boiling point/range :	100 °C
Flash point :	None
Evaporation rate :	Not available.
Explosion limits : upper limit :	Not available.
lower limit :	Not available.
Vapour pressure :	Not applicable.
Relative density :	0.995 g/cm ³ (@ 20°C).
Solubility in water :	Soluble in water
Auto-ignition :	> 200 °C
Viscosity :	Not applicable.



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9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reactions known if used for its intended purpose

10.2. Chemical stability

Stable

10.3. Possibility of hazardous reactions

In case of fire, do not breathe fumes
May give off noxious and toxic fumes in a fire

10.4. Conditions to avoid

heat

10.5. Incompatible materials

Strong oxidising agent

10.6. Hazardous decomposition products

CO,CO2

SECTION 11: Toxicological information

11.1. Information on toxicological effects

acute toxicity:	based on available data the classification criteria are not met
skin corrosion/irritation:	based on available data the classification criteria are not met
serious eye damage/irritation:	Causes serious eye irritation.
respiratory or skin sensitisation:	based on available data the classification criteria are not met
germ cell mutagenicity:	based on available data the classification criteria are not met
carcinogenicity:	based on available data the classification criteria are not met
toxicity for reproduction:	based on available data the classification criteria are not met
STOT-single exposure:	based on available data the classification criteria are not met
STOT repeated exposure:	based on available data the classification criteria are not met
aspiration hazard:	based on available data the classification criteria are not met

Information on likely routes of exposure:

Inhalation : May cause irritation.



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Ingestion : May cause gastrointestinal disturbances
 Skin contact : May cause irritation.
 Eye contact : Irritating to eyes

Toxicological data :

Hazardous ingredient	CAS-nr.	method	
amines, tallow alkyl, ethoxylated	61791-26-2	LD50 oral rat	500 mg/kg
Disodium metasilicate anhydrous	6834-92-0	LD50 oral rat	300-2000 mg/kg
		LC50 inhal.rat	1-5 mg/l
		LD50 derm.rat	>2000 mg/kg

SECTION 12: Ecological information**12.1. Toxicity**

Hazardous to the aquatic environment, chronic category 4
 Harmful to aquatic life with long lasting effects.

Ecotoxicological data:

Hazardous ingredient	CAS-nr.	method	
amines, tallow alkyl, ethoxylated	61791-26-2	LC50 fish	0.13 mg/l
		EC50 daphnia	0.17 mg/l
Disodium metasilicate anhydrous	6834-92-0	IC50 algae	207 mg/l
		LC50 fish	210 mg/l
		EC50 daphnia	1700 mg/l

12.2. Persistence and degradability

No experimental data available

12.3. Bioaccumulative potential

No experimental data available

12.4. Mobility in soil

Soluble in water

12.5. Results of PBT and vPvB assessment

No information available

12.6. Other adverse effects

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No experimental data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Do not discharge into drains or the environment, dispose to an authorised waste collection point.

SECTION 14: Transport information

14.1. UN number

UN-number : Not classified as hazardous for transport

14.2. UN proper shipping name

Proper shipping name: Not applicable.

14.3. Transport hazard class(es)

Class: Not applicable.
ADR/RID - Classification code: Not applicable.

14.4. Packing group

Packing group: Not applicable.

14.5. Environmental hazards

ADR/RID - Environmentally hazardous: No
IMDG - Marine pollutant: No
IATA/ICAO - Environmentally hazardous: No

14.6. Special precautions for user

ADR/RID - Tunnelcode: Not applicable.
IMDG - Ems: Not applicable.
IATA/ICAO - PAX: Not applicable.
IATA/ICAO - CAO: Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable.



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SECTION 15: Regulatory information

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

The Safety Data Sheet is compiled according to the current European requirements.
Regulation (EC) No 1907/2006 (REACH)
Regulation (EC) No 1272/2008 (CLP)

15.2. Chemical safety assessment

No information available

SECTION 16: Other information

*Explanation hazard statements: H290 : May be corrosive to metals.
H302 : Harmful if swallowed.
H314 : Causes severe skin burns and eye damage.
H315 : Causes skin irritation.
H317 : May cause an allergic skin reaction.
H318 : Causes serious eye damage.
H330 : Fatal if inhaled.
H335 : May cause respiratory irritation.
H400 : Very toxic to aquatic life.
H410 : Very toxic to aquatic life with long lasting effects.
H411 : Toxic to aquatic life with long lasting effects.

acronyms and synonyms: TWA = time weight average
STEL = short time exposure limit
VOC = volatile organic compounds
PBT = persistent bioaccumulative toxic
vPvB = very persistent very bioaccumulative

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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