

Productname : SERVISOL HEAT SINK COMPOUND
Creationdate : 29.06.17 Version : 2.0
Ref.Nr.: UDS000584_3_20170629 (EN) **Replaces:** UDS000584_20150723

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

1.1. Product identifier

SERVISOL HEAT SINK COMPOUND
Bulk

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

Conduction electric/thermal

1.3. Details of the supplier of the safety data sheet

CRC Industries UK Ltd.
Ambersil House - Wylds Road
Castlefield Industrial Estate
TA6 4DD Bridgwater Somerset
United Kingdom
Tel.: +44 1278 727200
Fax.: +44 1278 425644
E-mail : hse.uk@crcind.com

Subsidiaries		Tel	Fax
CRC Industries Deutschland GmbH	Südring 9, D-76473 Iffezheim	(07229) 303 0	(07229)30 32 66

1.4. Emergency telephone number

(+44)(0)1278 72 7200 (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: Not classified
Classification based on calculation method.
Environment: Hazardous to the aquatic environment, acute category 1
Very toxic to aquatic life with long lasting effects.
Classification based on calculation method.
Other hazards : Not classified



Productname : SERVISOL HEAT SINK COMPOUND
Ref.Nr.: UDS000584_3_20170629 (EN)
Creationdate : 29.06.17 Version : 2.0
Replaces: UDS000584_20150723

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictogram(s):



Signal word: Warning
Hazard statement(s): H410 : Very toxic to aquatic life with long lasting effects.
P273 : Avoid release to the environment.
P391 : Collect spillage.
P501-2 : Dispose of contents/container to an authorised waste collection point.

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
zinc oxide	01-2119463881-32	1314-13-2	215-222-5	50-100	Aquatic Acute 1, Aquatic Chronic 1	H400,H410	B
Explanation notes							
B : substance with national established workplace exposure limit							
(* 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 plenty of water for several minutes
Seek medical attention if irritation persists

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



Productname : SERVISOL HEAT SINK
COMPOUND
Ref.Nr.: UDS000584_3_20170629 (EN)
Creationdate : 29.06.17 Version : 2.0
Replaces: UDS000584_20150723

Inhalation : Excessive inhalation of solvent vapours may give rise to nausea, headaches and dizziness
Ingestion : May cause gastrointestinal disturbances
Symptoms : sore throat, abdominal pain, nausea, vomiting
Skin contact : Mildly irritating to skin
Symptoms : redness and pain
Eye contact : Mildly irritating to eyes
Symptoms : redness and pain

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

foam, carbon dioxide or dry agent

5.2. Special hazards arising from the substance or mixture

Forms hazardous decomposition products
CO,CO₂

5.3. Advice for firefighters

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Shut off all ignition sources
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



Productname : SERVISOL HEAT SINK
COMPOUND
Ref.Nr.: UDS000584_3_20170629 (EN)
Creationdate : 29.06.17 Version : 2.0
Replaces: UDS000584_20150723

For further information see section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Use only in well ventilated areas
Avoid contact with skin and eyes.
Wash thoroughly after use
Wear protective gloves/protective clothing/eye protection/face protection.

7.2. Conditions for safe storage, including any incompatibilities

Keep in a cool, dry, well ventilated place
Keep out of reach of children.

7.3. Specific end use(s)

Conduction electric/thermal

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.
inhalation :	Ensure adequate ventilation In case of insufficient ventilation, wear suitable respiratory equipment.
hands and skin :	When handling the product wear chemical-resistant gloves (standard EN 374). The breakthrough time of the glove should be longer than the total duration of product use. If work lasts longer than the breakthrough time, gloves should be changed part-way through.
Recommended gloves:	Nitrile
eyes :	Wear safety eyewear according to EN 166.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties



Productname : SERVISOL HEAT SINK
COMPOUND
Ref.Nr.: UDS000584_3_20170629 (EN)
Creationdate : 29.06.17 Version : 2.0
Replaces: UDS000584_20150723

Apperance : physical state : Grease.
colour : White.
odour : Characteristic odor.
pH : Not available.
Boiling point/range : Not available.
Flash point : > 150 °C (Closed Cup)
Evaporation rate : Not available.
Explosion limits : upper limit : Not available.
lower limit : Not available.
Vapour pressure : Not available.
Relative density : 2.30 g/cm3.
Solubility in water : Insoluble in water
Auto-ignition : > 400 °C
Viscosity : Not available.

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

No hazardous reactions known if used for its intended purpose

10.4. Conditions to avoid

Avoid overheating

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



Productname : SERVISOL HEAT SINK COMPOUND
Creationdate : 29.06.17 Version : 2.0
Ref.Nr.: UDS000584_3_20170629 (EN) **Replaces:** UDS000584_20150723

skin corrosion/irritation: based on available data the classification criteria are not met
serious eye damage/irritation: based on available data the classification criteria are not met
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 : Inhalation of solvent vapours may give rise to nausea, headaches and dizziness
Ingestion : May cause gastrointestinal disturbances
Skin contact : May cause irritation.
Eye contact : May cause irritation.

Toxicological data :

Hazardous ingredient	CAS-nr.	method	
zinc oxide	1314-13-2	LC50 inhal.rat	> 5.7 mg/l

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

Hazardous to the aquatic environment, acute category 1
 Very toxic to aquatic life with long lasting effects.

Ecotoxicological data:

Hazardous ingredient	CAS-nr.	method	
zinc oxide	1314-13-2	IC50 algae	0.136 mg/l
		LC50 fish	0.169 mg/l
		EC50 daphnia	1.7 mg/l

12.2. Persistence and degradability

No information available

12.3. Bioaccumulative potential

No information available

12.4. Mobility in soil

Productname : SERVISOL HEAT SINK
COMPOUND
Ref.Nr.: UDS000584_3_20170629 (EN)
Creationdate : 29.06.17 Version : 2.0
Replaces: UDS000584_20150723

Insoluble in water

12.5. Results of PBT and vPvB assessment

No information available

12.6. Other adverse effects

No information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product : This material and its container must be disposed of in a safe way.
Do not discharge into drains or the environment, dispose to an authorised waste collection point.
Contaminated packaging : Disposal should be in accordance with local, state or national legislation

SECTION 14: Transport information

14.1. UN number

UN-number : 3082

14.2. UN proper shipping name

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Zinc oxide)

14.3. Transport hazard class(es)

Class: 9
ADR/RID - Classification code: M6

14.4. Packing group

Packing group: III

14.5. Environmental hazards

ADR/RID - Environmentally hazardous: Yes
IMDG - Marine pollutant: Marine pollutant
IATA/ICAO - Environmentally hazardous: Yes



Productname :	SERVISOL HEAT SINK COMPOUND	Creationdate :	29.06.17 Version : 2.0
Ref.Nr.:	UDS000584_3_20170629 (EN)	Replaces:	UDS000584_20150723

14.6. Special precautions for user

ADR/RID - Tunnelcode:	(E)
IMDG - Ems:	F-A, S-F
IATA/ICAO - PAX:	964
IATA/ICAO - CAO	964

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

Not applicable.

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: H400 : Very toxic to aquatic life.
H410 : Very toxic to aquatic life with long lasting effects.

REVISIONS IN CHAPTRE : 8.2. Exposure controls
acronyms and synonyms: TWA = time weight average
STEL = short time exposure limit
VOC = volatile organic compounds
PBT = persistant bioaccumulative toxic
vPvB = very persitant 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. Apart from any fair dealing for purposes of study, research and review of health, safety and environmental risks, no part of these documents may be reproduced by any process without written permission from CRC.

