

**Productname :** SERVISOL HEAT SINK COMPOUND  
**Creationdate :** 29.05.19 Version : 3.0  
**Ref.Nr.:** UDS000584\_3\_20190529 (EN) **Replaces:** UDS000584\_20170629

## 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.**  
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Castlefield Industrial Estate  
TA6 4DD Bridgwater Somerset  
United Kingdom  
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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



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## 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
<b>Explanation notes</b>							
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



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**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,CO<sub>2</sub>

#### 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



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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

<b>Control procedures :</b>	Ensure adequate ventilation
<b>Personal protection :</b>	Take precautions to avoid contact with skin and eyes when handling the product.
<b>inhalation :</b>	Ensure adequate ventilation In case of insufficient ventilation, wear suitable respiratory equipment.
recommended respiratory protection:	Air purifying respirator equipped with ABEK type cartridge
<b>hands and skin :</b>	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
<b>eyes :</b>	Wear safety eyewear according to EN 166.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties



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**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



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**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:** 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	LD50 oral rat	7950 mg/kg
		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



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**12.4. Mobility in soil**

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**

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 : 3077

**14.2. UN proper shipping name**

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc oxide)

**14.3. Transport hazard class(es)**Class: 9  
ADR/RID - Classification code: M7**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

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#### 14.6. Special precautions for user

ADR/RID - Tunnelcode:	(E)
IMDG - Ems:	F-A, S-F
IATA/ICAO - PAX:	956
IATA/ICAO - CAO	956

#### 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 : 14.1. UN number  
14.3. Transport hazard class(es)

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.

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