



## SAFETY DATA SHEET RADIATOR SEALER

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Product name RADIATOR SEALER  
Product No. BRS500, CFR301, RAS205, RAS301, RRS301, SFD135, SRS300

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

Identified uses Car maintenance product.

#### 1.3. Details of the supplier of the safety data sheet

Supplier TETROSYL LIMITED  
BEVIS GREEN WORKS  
WALMERSLEY  
BURY  
BL9 6RE  
0161 764 5981  
0161 797 5899  
info@tetrosyl.com

Manufacturer TETROSYL LIMITED  
BEVIS GREEN WORKS  
WALMERSLEY  
BURY  
BL9 6RE  
0161 764 5981  
0161 797 5899  
info@tetrosyl.com

#### 1.4. Emergency telephone number

0161 764 5981

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards	Not classified.
Human health	Not classified.
Environment	Aquatic Chronic 3 - H412

Classification (1999/45/EEC) R52/53.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.  
Human health  
See section 11 for additional information on health hazards.

#### 2.2. Label elements

**RADIATOR SEALER**

## Detergent Labelling:

Contains Benzisothiazolinone,OCTYL  
ISOTHIAZOLONE,2-METHYLISOTHIAZOL-3(2H)-ONE

Label In Accordance With (EC) No. 1272/2008

No pictogram required.

## Hazard Statements

H412 Harmful to aquatic life with long lasting effects.

## Precautionary Statements

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P273 Avoid release to the environment.  
P501 Dispose of contents/container in accordance with local regulations.

## Supplemental label information

EUH208 Contains 1,2-BENZISOTHIAZOL-3(2H)  
-ONE,TETRAHYDRO-1,3,4,6-TETRAKIS(HYDROXYMETHYL)  
)IMIDAZO[4,5-D]IMIDAZOLE-2,5(1H,3H)-DIONE. May  
produce an allergic reaction.

**2.3. Other hazards****SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.2. Mixtures**

2-OCTYL-2H-ISOTHIAZOL-3-ONE	0.0001 - <0.1%
CAS-No.: 26530-20-1	EC No.: 247-761-7
Classification (EC 1272/2008)	Classification (67/548/EEC)
Acute Tox. 4 - H302	T;R23/24
Acute Tox. 3 - H311	C;R34
Acute Tox. 3 - H331	Xn;R22
Skin Corr. 1B - H314	R43
Skin Sens. 1 - H317	N;R50/53
Aquatic Acute 1 - H400	
Aquatic Chronic 1 - H410	
CRISTOBALITE/QUARTZ MIXTURE	0.0001 - <0.1%
CAS-No.: 14808-60-7	EC No.: 238-878-4
Classification (EC 1272/2008)	Classification (67/548/EEC)
STOT RE 2 - H373	Xn;R48/20.

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DIETHYLENE GLYCOL	0.1 - <0.3%
CAS-No.: 111-46-6	EC No.: 203-872-2
Classification (EC 1272/2008) Acute Tox. 4 - H302	Classification (67/548/EEC) Xn;R22
TETRAHYDRO-1,3,4,6-TETRAKIS(HYDROXYMETHYL)IMIDAZO[4,5-D]IMIDAZOLE-2,5(1H,3 H)-DIONE	0.1 - <0.3%
CAS-No.: 5395-50-6	EC No.: 226-408-0
Classification (EC 1272/2008) Not classified.	Classification (67/548/EEC) R43.
TRIPOTASSIUM PHOSPHATE	1.0 - <3.0%
CAS-No.: 7778-53-2	EC No.: 231-907-1
Classification (EC 1272/2008) Not classified.	Classification (67/548/EEC) Xi;R36/37/38.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

#### SECTION 4: FIRST AID MEASURES

##### **4.1. Description of first aid measures**

###### General information

Remove affected person from source of contamination. Get medical attention if any discomfort continues.

###### Inhalation

Get medical attention if any discomfort continues.

###### Ingestion

Consult a physician for specific advice.

###### Skin contact

Promptly wash contaminated skin with soap or mild detergent and water. Promptly remove clothing if soaked through and wash as above.

###### Eye contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Do not rub eye.

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

###### General information

The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

NOTE! Effects may be delayed. Keep affected person under observation.

###### Inhalation

No specific symptoms noted.

###### Ingestion

May cause discomfort if swallowed. May cause stomach pain or vomiting.

###### Skin contact

Prolonged contact may cause redness, irritation and dry skin.

###### Eye contact

May cause temporary eye irritation.

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

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

## **SECTION 5: FIREFIGHTING MEASURES**

### **5.1. Extinguishing media**

Extinguishing media

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

### **5.2. Special hazards arising from the substance or mixture**

Hazardous combustion products

There are no anticipated hazardous decomposition products associated with this material.

Unusual Fire & Explosion Hazards

No unusual fire or explosion hazards noted.

Specific hazards

Not relevant

### **5.3. Advice for firefighters**

Special Fire Fighting Procedures

No specific fire fighting procedure given.

Protective equipment for fire-fighters

Leave danger zone immediately.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **6.1. Personal precautions, protective equipment and emergency procedures**

For personal protection, see section 8. In case of spills, beware of slippery floors and surfaces.

### **6.2. Environmental precautions**

The product should not be dumped in nature but collected and delivered according to agreement with the local authorities.

### **6.3. Methods and material for containment and cleaning up**

For waste disposal, see section 13. When dealing with a spillage, please consult the section relating to suitable protective measures. Provide ventilation and confine spill. Do not allow runoff to sewer. Absorb spillage with non-combustible, absorbent material.

### **6.4. Reference to other sections**

Collect and dispose of spillage as indicated in section 13. For personal protection, see section 8.

## **SECTION 7: HANDLING AND STORAGE**

### **7.1. Precautions for safe handling**

Read and follow manufacturer's recommendations. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Avoid contact with eyes. Avoid eating, drinking and smoking when using the product.

### **7.2. Conditions for safe storage, including any incompatibilities**

Keep upright. Store in tightly closed original container.

### **7.3. Specific end use(s)**

The identified uses for this product are detailed in Section 1.2.

**RADIATOR SEALER****SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Control parameters**

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
CRISTOBALITE/QUARTZ MIXTURE	WEL		0,1 mg/m <sup>3</sup>			
DIETHYLENE GLYCOL	WEL	23 ppm	101 mg/m <sup>3</sup>			

WEL = Workplace Exposure Limit.

**8.2. Exposure controls**

Protective equipment



Process conditions

Use engineering controls to reduce air contamination to permissible exposure level.

Engineering measures

No specific ventilation requirements noted, except this product must not be used in a confined space without good ventilation.

Respiratory equipment

Respiratory protection not required.

Hand protection

For prolonged or repeated skin contact use suitable protective gloves.

Eye protection

Wear approved, tight fitting safety glasses where splashing is probable.

Other Protection

Wear suitable protective clothing as protection against splashing or contamination.

Hygiene measures

Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties**

Appearance	Coloured liquid.
Colour	Brown.
Odour	Characteristic.
Solubility	Soluble in water.
Initial boiling point and boiling range (°C)	>100
Melting point (°C)	Not determined.
Relative density	1.05 20°c
Vapour density (air=1)	Not determined.
Vapour pressure	Not determined.
Evaporation rate	Not determined.
pH-Value, Diluted Solution	9.0-11.5

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Viscosity <200 cSt 20°C  
Decomposition temperature (°C)  
Not determined.  
Odour Threshold, Lower  
Not determined.  
Odour Threshold, Upper  
Not determined.  
Flash point (°C) >100  
Auto Ignition Temperature (°C)  
Not determined.  
Flammability Limit - Lower(%)  
Not determined.  
Flammability Limit - Upper(%)  
Not determined.  
Partition Coefficient  
(N-Octanol/Water)  
Not determined.  
Oxidising properties  
Not available.

**9.2. Other information**

None.

**SECTION 10: STABILITY AND REACTIVITY****10.1. Reactivity**

No specific reactivity hazards associated with this product.

**10.2. Chemical stability**

No particular stability concerns.

**10.3. Possibility of hazardous reactions**

Not applicable.

**10.4. Conditions to avoid**

Not relevant

**10.5. Incompatible materials**

Materials To Avoid  
No incompatible groups noted.

**10.6. Hazardous decomposition products**

None under normal conditions.

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1. Information on toxicological effects**

Toxicological information  
No information available.

Health Warnings  
Because of quantity and composition, the health hazard is small.

**SECTION 12: ECOLOGICAL INFORMATION**

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### Ecotoxicity

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

#### **12.1. Toxicity**

Acute Toxicity - Fish

Not available.

Acute Toxicity - Aquatic Invertebrates

Not available.

#### **12.2. Persistence and degradability**

Degradability

There are no data on the degradability of this product.

#### **12.3. Bioaccumulative potential**

Bioaccumulative potential

No data available on bioaccumulation.

Partition coefficient

Not determined.

#### **12.4. Mobility in soil**

Adsorption/Desorption Coefficient

Not available.

#### **12.5. Results of PBT and vPvB assessment**

Not Classified as PBT/vPvB by current EU criteria.

#### **12.6. Other adverse effects**

Not available.

### SECTION 13: DISPOSAL CONSIDERATIONS

#### General information

When handling waste, consideration should be made to the safety precautions applying to handling of the product.

#### **13.1. Waste treatment methods**

Dispose of waste and residues in accordance with local authority requirements. Absorb in vermiculite or dry sand and dispose of at a licenced hazardous waste collection point.

### SECTION 14: TRANSPORT INFORMATION

#### General

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

#### **14.1. UN number**

#### **14.2. UN proper shipping name**

#### **14.3. Transport hazard class(es)**

#### **14.4. Packing group**

#### **14.5. Environmental hazards**

#### **14.6. Special precautions for user**

**RADIATOR SEALER****14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

**SECTION 15: REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

## Uk Regulatory References

The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments.

## EU Legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

**15.2. Chemical Safety Assessment**

No chemical safety assessment has been carried out.

**SECTION 16: OTHER INFORMATION**

## General information

Only trained personnel should use this material.

## Revision Comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision Date 02/12/2013  
Revision 9  
Supersedes date 09/09/2013 v8  
Safety Data Sheet Status Approved.

## Risk Phrases In Full

R34 Causes burns.  
R22 Harmful if swallowed.  
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.  
R36/37/38 Irritating to eyes, respiratory system and skin.  
R43 May cause sensitisation by skin contact.  
R23/24 Toxic by inhalation and in contact with skin.  
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## Hazard Statements In Full

H314 Causes severe skin burns and eye damage.  
H302 Harmful if swallowed.  
H412 Harmful to aquatic life with long lasting effects.  
H317 May cause an allergic skin reaction.  
H373 May cause damage to organs <<Organs>> through prolonged or repeated exposure.  
H331 Toxic if inhaled.  
H311 Toxic in contact with skin.  
H410 Very toxic to aquatic life with long lasting effects.  
H400 Very toxic to aquatic life.



## RADIATOR SEALER

### Disclaimer

The information provided in this document has been compiled on the basis of our current knowledge and is believed to be in accordance with the requirements of the Dangerous Substances Directive, Dangerous Preparations Directive and Safety Data Sheets Directive. The information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any particular conditions or process. The conditions and extent of storage and use of material are outside of our control and within the control of the possessor or user. Consequently it is the responsibility of the possessor or user to satisfy themselves as to the completeness of such information and the suitability of the material for their own particular circumstances, conditions or use.