

# MATERIAL SAFETY DATA SHEET

## BARS RADIATOR CLEANER

VERSION: 01  
DATE: 25/ 03/08

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### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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PRODUCT NAME: Bars Radiator Cleaner  
SYNONYMS: Reactor Product Powder  
PRODUCT CODES: BLR150

COMPANY: Bar's Leaks (Australia) Pty Limited  
DIVISION: Manufacturing  
ADDRESS: 44 Kareena Road,  
Miranda NSW 2228  
Australia

EMERGENCY PHONE: (02) 9524 5236

PRODUCT USE: Motor vehicle cooling system cleaner. Application through radiator or cooling system.

SECTION 1 NOTES:

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### SECTION 2: HAZARDS IDENTIFICATION

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#### HAZARD CLASSIFICATION

HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS  
AS DETERMINED BY NOHSC:1008(2004) APPROVED CRITERIA

HAZARD Warning. Irritant.

RISK PHRASE Irritating to eyes.

SAFETY PHRASE Do not breathe dust.  
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

SECTION 2 NOTES: Contact with eyes may cause severe irritation, and possible eye burns.

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### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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<u>INGREDIENT:</u>	<u>CAS NO.</u>	<u>% WT</u>
Carbonic Acid Sodium Salts	497-19-8	100%

For further information contact the manufacturer, details in Section 1.

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### SECTION 4: FIRST AID MEASURES

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EYES: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If eye irritation persists get medical aid immediately.

SKIN: Wash with soap and water until no evidence of the chemical remains (15 – 20 minutes). Wash clothing before reuse. Thoroughly clean shoes before reuse.

INGESTION: Do not induce vomiting. If the victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

INHALATION: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear. Do NOT use mouth-to-mouth resuscitation.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:  
Treat symptomatically.

SECTION 4 NOTES:

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### SECTION 5: FIRE-FIGHTING MEASURES

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**FLASH POINT:**

F: N/A  
C: N/A

**METHOD USED:** N/A

**EXTINGUISHING MEDIA:** Use agent most appropriate to extinguish fire. Use water spray, dry chemical, carbon dioxide, or appropriate foam.

**SPECIAL FIRE FIGHTING PROCEDURES:** None

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** None

**HAZARDOUS DECOMPOSITION PRODUCTS:** No data available.

**SECTION 5 NOTES:** This product is non-flammable and does not support combustion. As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Wear appropriate protective clothing to prevent contact with skin and eyes. Wear a self-contained breathing apparatus (SCBA) to prevent contact with thermal decomposition products. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas. The residue from any fire involving this material will be alkaline.

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### SECTION 6: ACCIDENTAL RELEASE MEASURES

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**ACCIDENTAL RELEASE MEASURES:**

Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation. Dispose of by approved landfill or recycle in accordance with local body bylaws and regulations.

**SECTION 6 NOTES:** Not considered to be a significant environmental hazard.

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### SECTION 7: HANDLING AND STORAGE

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**HANDLING AND STORAGE:** Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use only in a well-ventilated area. Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Avoid ingestion and inhalation. Wash clothing before reuse.

**STORAGE:** Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

**OTHER PRECAUTIONS:**

**SECTION 7 NOTES:**

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### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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**ENGINEERING CONTROLS:** Good general ventilation should be sufficient to control airborne levels. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

**RESPIRATORY PROTECTION:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

**EYE PROTECTION:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**SKIN PROTECTION:** Wear appropriate protective gloves to prevent skin exposure.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Wear appropriate protective clothing to minimize contact with skin.

**WORK HYGIENIC PRACTICES:** Wash hands after contact with product.

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION continued**

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**EXPOSURE GUIDELINES: LIMITS**

Chemical Name	ACGIH	NIOSH	OSHA – Final PEL'S
Sodium Carbonate decahydrate	None listed	None listed	None listed
Sodium Carbonate, anhydrous	None listed	None listed	None listed

**SECTION 8 NOTES:** For Nuisance Dusts OSHA PEL = 15 mg/m<sup>3</sup>

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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**APPEARANCE:** Tan and white powder.

**pH AS SUPPLIED:** N/A  
**pH (At specified dilution):** No data.

**VAPOUR PRESSURE:** N/A

**VAPOUR DENSITY:** N/A

**BOILING POINT RANGE:** N/A

**FREEZING POINT RANGE:** N/A

**SOLUBILITY IN WATER:** Partially soluble.

**DENSITY (H<sub>2</sub>O = 1):**  
@ 20°C: 1.46

**FLASHPOINT:** N/A

**SECTION 9 NOTES:**

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**SECTION 10: STABILITY AND REACTIVITY**

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**STABILITY:** Stable at room temperature in closed containers under normal storage and handling conditions. Decomposed by acids with effervescence, evolution of carbon dioxide. Avoid dust generation, prolonged exposure to air.

**CONDITIONS TO AVOID (STABILITY):**  
None known.

**HAZARDOUS POLYMERIZATION:**  
Will not occur.

**MATERIALS TO AVOID:** Acids, aluminium.

**HAZARDOUS DECOMPOSITION PRODUCTS:**  
Carbon monoxide, carbon dioxide, sodium oxide.

**SECTION 10 NOTES:**

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**SECTION 11: TOXICOLOGICAL INFORMATION**

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**TOXICOLOGICAL INFORMATION:**

**RTECS#:**  
CAS# 6132-02-1 unlisted.  
CAS# 497-19-8: VZ4050000  
**LD50/LC50:**  
Not available.

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**SECTION 11: TOXICOLOGICAL INFORMATION continued**

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**CAS# 497-19-8:**

Draize test, rabbit, eye: 100 mg/24H Moderate;  
Draize test, rabbit, eye: 50 mg Severe;  
Draize test, rabbit, skin: 500 mg/24H Mild;  
Inhalation, mouse: LC50 = 1200 mg/m<sup>3</sup>/2H;  
Inhalation, rat: LC50 = 2300 mg/m<sup>3</sup>/2H;  
Oral, mouse: LD50 = 6600 mg/kg;  
Oral, mouse: LD50 = 6600 mg/kg;  
Oral, rat: LD50 = 4090 mg/kg.

**Carcinogenicity:**

CAS# 6132-02-1: Not listed by ACGIH, IARC, NTP, or CA Prop 65.  
CAS# 497-19-8: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: No information available.  
Teratogenicity: No information available.  
Reproductive Effects: No information available.  
Mutagenicity: No information available.  
Neurotoxicity: No information available.  
Other Studies:

**EYES:** Dry, powdered sodium carbonate, as 25% to 75% of a mixture with dry sodium sulfate. applied to eyes of rabbits and monkeys in a systematic study was judged "corrosive" or "harmful " to both species, whether or not followed by irrigation at two minutes after application. However, most monkey eyes exposed to 50% mixture showed little or no persistent injury 21 days after exposure.

**SKIN:** An aqueous solution, 50% weight/volume, of sodium carbonate was applied to the intact and abraded skins of rabbits and guinea pigs. The sites were examined at 4, 24, and 48 hours and scored for erythema, edema, or corrosion. The abraded skins of the guinea pigs were negligibly affected, but the rabbit skins showed moderate erythema and edema.

**INHALATION:** Male rats were exposed to an aerosol of a 2% aqueous solution of sodium carbonate, 4 hours a day. 5 days a week, for 3.5 months. In observations from exposure at approximately 70 mg/cubic meter, the weight gain of the exposed group was 24% less than that of controls.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Skin or eye disorders or damaged skin may be aggravated by exposure to this product. Respiratory disorders may be aggravated by exposure to this product.

**SECTION 11 NOTES:**

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**SECTION 12: ECOLOGICAL INFORMATION**

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**ECOLOGICAL INFORMATION:**

No Ecotoxicity data available for this substance.

**SECTION 12 NOTES:**

**ENVIRONMENTAL FATE DATA:** Occurs in nature as the hydrate, the monohydrate, and decahydrate, natron or natrite.

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**SECTION 13: DISPOSAL CONSIDERATIONS**

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**WASTE DISPOSAL METHOD:** Diluted neutralised material may be allowed to enter storm water drains.

Consult Local Body Waste Management Authority for disposal of large quantities of material at approved sites.

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**SECTION 14: TRANSPORT INFORMATION**

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**SHIPPING NAME:** None assigned.  
**DANGEROUS GOODS CLASS:** Not assigned.  
**UN/NA NUMBER:** None assigned.

**SECTION 14 NOTES:**

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### SECTION 15: REGULATORY INFORMATION

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#### US FEDERAL

##### TSCA

CAS# 6132-02-1 is not on the TSCA Inventory because it is a hydrate. It is considered to be listed if the CAS number for the anhydrous form is on the inventory (40CFR720.3(u)(2)).

CAS# 497-19-8 is listed on the TSCA inventory.

##### Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

##### Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

##### Section 12b

None of the chemicals are listed under TSCA Section 12b.

##### TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

##### CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in this material have an RQ.

##### SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

##### SARA Codes

CAS # 497-19-8: immediate.

Section 313 No chemicals are reportable under Section 313.

##### Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

##### Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

##### OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

##### STATE

CAS# 6132-02-1 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

CAS# 497-19-8 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

##### California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

##### European/International Regulations

##### European Labeling in Accordance with EC Directives

##### Hazard Symbols:

XI

##### Risk Phrases:

R 36 Irritating to eyes.

##### Safety Phrases:

S 22 Do not breathe dust.

S 26 In case of contact with eyes rinse immediately with plenty of water and seek medical advice.

##### WGK (Water Danger/Protection)

CAS# 6132-02-1: 1

CAS# 497-19-8: 1

##### Canada - DSL/NDSL

CAS# 497-19-8 is listed on Canada's DSL List.

##### Canada - WHMIS

This product has a WHMIS classification of D1B, E.

##### Canadian Ingredient Disclosure List

CAS# 497-19-8 is listed on the Canadian Ingredient Disclosure List.

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**SECTION 16: OTHER INFORMATION**

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**OTHER INFORMATION:**

**PREPARATION INFORMATION:** Revision 01 prepared 25.03.08

**DISCLAIMER:**

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of the need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.