

## SAFETY DATA SHEET

## SECTION 1. IDENTIFICATION

Product identifier used on the label

: **BLOCK SEAL**

Product Code(s) : C616C

Recommended use of the chemical and restrictions on use

: Automotive - Repair Supply. Repairs cracked engine blocks, cylinder heads, valve parts, water jackets.

Restrictions on use: Not available.

Chemical family : Mixture

Name, address, and telephone number of the supplier:

**Radiator Specialty Co., of Canada**3-3055 Dundas St West, Suite 50  
Mississauga, ON, Canada  
L5L 3R8

Supplier's Telephone # : (905) 625-9117 (Mon. - Fri., 8 am - 4 pm)

24 Hr. Emergency Tel # : Not available.

Name, address, and telephone number of the manufacturer:

Refer to supplier

## SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Green / brown viscous liquid. No odour.

*Most important hazards:*

Occupational exposure to the substance or mixture may cause adverse effects. For further information, please refer to section 11 of the SDS.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Avoid release to the environment. See Section 12 for more environmental information.

***This product is packaged and sold as a consumer product. The Hazardous Products Act (HPA) does not apply to consumer products [Hazardous Products Act Section 12(j)]. The below WHMIS 2015 classification and labeling information is being provided for informational purposes.***

This material is not classified as hazardous under Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Label elements

*Hazard Pictogram(s)*

None required according to Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

*Signal Word*

None required according to Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

*Hazard statement(s)*

None required according to Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

*Precautionary statement(s)*

None required according to Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Other hazards

*Other hazards which do not result in classification:*

Toxic fumes may be released during a fire. Mild respiratory irritant. Direct eye contact may cause slight or mild, transient irritation. Direct skin contact may cause slight or mild, transient irritation. May cause gastrointestinal irritation.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

<u>Chemical name</u>	<u>Common name and synonyms</u>	<u>CAS #</u>	<u>Concentration (% by weight)</u>
No hazardous ingredients above concentration cut-offs	N/Ap	N/Ap	N/Ap

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### SECTION 4. FIRST-AID MEASURES

#### Description of first aid measures

- Ingestion* : If ingested, do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician.
- Inhalation* : If inhaled, move to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. If irritation or symptoms develop, seek medical attention.
- Skin contact* : In case of contact with skin, wash with mild soap and plenty of water. Remove contaminated clothing and shoes. If irritation or symptoms develop, seek medical attention.
- Eye contact* : Immediately flush eye(s) with plenty of water. If irritation or symptoms develop, seek medical attention.

#### Most important symptoms and effects, both acute and delayed

- : Direct skin contact may cause slight or mild, transient irritation. Direct skin contact may cause temporary redness.
- : Direct eye contact may cause slight or mild, transient irritation. Direct eye contact may cause temporary redness.
- : Mild respiratory irritant. If product is heated or mists are formed, inhalation may cause irritation to the nose, throat and respiratory tract. May cause coughing and breathing difficulties.
- : Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

#### Indication of any immediate medical attention and special treatment needed

- : Provide general supportive measures and treat symptomatically.

### SECTION 5. FIRE-FIGHTING MEASURES

#### Extinguishing media

##### *Suitable extinguishing media*

- : Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.

##### *Unsuitable extinguishing media*

- : Not available

#### Special hazards arising from the substance or mixture / Conditions of flammability

- : Not flammable under normal conditions of use. However, may burn if exposed to extreme heat and flame. Toxic fumes, gases or vapours may evolve on burning. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.

#### Hazardous combustion products

- : Carbon oxides; Other irritating fumes and smoke.

#### Special protective equipment and precautions for firefighters

##### *Protective equipment for fire-fighters*

- : Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

##### *Special fire-fighting procedures*

- : Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

- : All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Keep all other personnel upwind and away from the spill/release. Restrict access to area until completion of clean-up. Refer to protective measures listed in sections 7 and 8.

#### Environmental precautions

- : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces.

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### Methods and material for containment and cleaning up

- : Ventilate the area. Prevent further leakage or spillage if safe to do so. Eliminate all ignition sources. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand). Pick up and transfer to properly labeled containers. Refer to Section 13 for disposal of contaminated material. Contact the proper local authorities.

### SECTION 7. HANDLING AND STORAGE

#### Precautions for safe handling

- : Use with adequate ventilation. Avoid breathing vapours, fumes, or mists. Wear protective equipment during handling. Avoid contact with skin, eyes and clothing. Keep away from extreme heat and direct flame. Keep away from incompatibles. Keep container tightly closed when not in use. Wash thoroughly after handling. Empty containers retain residue and can be dangerous.

#### Conditions for safe storage

- : Store in a cool, dry, well-ventilated area. Store away from incompatibles and out of direct sunlight. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks.

#### Incompatible materials

- : Oxidizing agents

### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Exposure Limits:

<u>Chemical Name</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
No hazardous ingredients above concentration cut-offs	N/Av	N/Av	N/Av	N/Av

#### Exposure controls

##### Ventilation and engineering measures

- : Provide adequate ventilation. Under normal conditions of use, general ventilation should be sufficient. Where adequate general ventilation is unavailable, use local exhaust ventilation, or other engineering controls.

##### Respiratory protection

- : If airborne concentrations are above the permissible exposure limit or are not known, use NIOSH-approved respirators. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with CSA Z94.4-02.

##### Skin protection

- : Gloves impervious to the material are recommended. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Wear sufficient clothing to prevent skin contact.

##### Eye / face protection

- : Wear as appropriate: Safety glasses with side shields; Tightly fitting safety goggles.

##### Other protective equipment

- : An eyewash station and safety shower should be made available in the immediate working area. Other equipment may be required depending on workplace standards.

##### General hygiene considerations

- : Avoid breathing vapours, fumes, or mists. Avoid contact with skin, eyes and clothing. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse. Handle in accordance with good industrial hygiene and safety practice.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Appearance

- : Green / brown viscous liquid.

#### Odour

- : No odour.

#### Odour threshold

- : N/Av

#### pH

- : 8.0 - 9.5

#### Melting/Freezing point

- : Melting point: N/Av  
Freezing point: N/Av

#### Initial boiling point and boiling range

- : 100°C (212°F)

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Flash point : N/Ap  
Flashpoint (Method) : N/Ap  
Evaporation rate (BuAe = 1) : N/Av  
Flammability (solid, gas) : Not applicable.  
Lower flammable limit (% by vol.) : N/Ap  
Upper flammable limit (% by vol.) : N/Ap  
Oxidizing properties : No oxidizing properties.  
Explosive properties : Not explosive  
Vapour pressure : N/Av  
Vapour density : N/Av  
Relative density / Specific gravity : Relative density: 1 g/cm<sup>3</sup>  
Solubility in water : Miscible.  
Other solubility(ies) : N/Av  
Partition coefficient: n-octanol/water or Coefficient of water/oil distribution : N/Av  
Auto-ignition temperature : N/Av  
Decomposition temperature : N/Av  
Viscosity : 900 cP @ 20°C (68°F)  
Volatiles (% by weight) : N/Av  
Volatile organic Compounds (VOC's) : N/Av  
Absolute pressure of container : N/Ap  
Flame projection length : N/Ap  
Other physical/chemical comments : No additional information.

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity : Not normally reactive.  
Chemical stability : Stable under normal conditions.  
Possibility of hazardous reactions : Hazardous polymerization does not occur. No dangerous reaction known under conditions of normal use.  
Conditions to avoid : Ensure adequate ventilation, especially in confined areas. Avoid contact with incompatible materials. Avoid heat and open flame.  
Incompatible materials : Oxidizing agents  
Hazardous decomposition products : Not available.  
Refer also to hazardous combustion products, Section 5.

**SECTION 11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure:**

Routes of entry inhalation : YES  
Routes of entry skin & eye : YES  
Routes of entry Ingestion : YES  
Routes of exposure skin absorption : NO

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### Potential Health Effects:

#### Signs and symptoms of short-term (acute) exposure

##### *Sign and symptoms Inhalation*

- : Mild respiratory irritant. If product is heated or mists are formed, inhalation may cause irritation to the nose, throat and respiratory tract. May cause coughing and breathing difficulties.

##### *Sign and symptoms ingestion*

- : Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

##### *Sign and symptoms skin*

- : Direct skin contact may cause slight or mild, transient irritation. Direct skin contact may cause temporary redness.

##### *Sign and symptoms eyes*

- : Direct eye contact may cause slight or mild, transient irritation. Direct eye contact may cause temporary redness.

#### Potential Chronic Health Effects

- : None known or reported by the manufacturer.

#### Mutagenicity

- : No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

#### Carcinogenicity

- : Not expected to have carcinogenic effects.  
No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

#### Reproductive effects & Teratogenicity

- : This product is not expected to cause reproductive or developmental effects.

#### Sensitization to material

- : No data available to indicate product or components may be skin sensitizers.  
No data available to indicate product or components may be respiratory sensitizers.

#### Specific target organ effects

- : According to the classification criteria of Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015), this product is not expected to cause specific target organ toxicity (STOT) through single or repeated exposures.

#### Medical conditions aggravated by overexposure

- : Pre-existing skin, eye and respiratory disorders.

#### Synergistic materials

- : Not available.

#### Toxicological data

- : Not classified for acute toxicity based on available data. No data is available on the product itself.

<u>Chemical name</u>	<u>LC<sub>50</sub> (4hr)</u>	<u>LD<sub>50</sub></u>	
	<u>inh, rat</u>	<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
No hazardous ingredients above concentration cut-offs	N/Av	N/Av	N/Av

#### Other important toxicological hazards

- : None known or reported by the manufacturer.

### SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

- : No data is available on the product itself. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.

**Persistence and degradability** : No data is available on the product itself.

**Bioaccumulation potential** : No data is available on the product itself.

**Mobility in soil** : No data is available on the product itself.

## SECTION 15 - REGULATORY INFORMATION

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## SECTION 16. OTHER INFORMATION

**Legend** :

- ACGIH: American Conference of Governmental Industrial Hygienists
- AICS: Australian Inventory of Chemical Substances
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Services
- ENCS: Existing and New Chemical Substances
- HSDB: Hazardous Substances Data Bank
- IARC: International Agency for Research on Cancer
- IATA: International Air Transport Association
- ICAO: International Civil Aviation Organisation
- IMDG: International Maritime Dangerous Goods
- Inh: Inhalation
- IOC: Inventory of Chemicals
- IUCLID: International Uniform Chemical Information Database
- KECI: Korean Existing Chemicals Inventory
- KECL: Korean Existing Chemicals List
- LC: Lethal Concentration
- LD: Lethal Dose
- MSHA: Mine Safety and Health Administration
- N/Ap: Not Applicable
- N/Av: Not Available
- NFPA: National Fire Protection Association
- NIOSH: National Institute of Occupational Safety and Health
- NOEC: No observable effect concentration
- OECD: Organisation for Economic Co-operation and Development
- NTP: National Toxicology Program
- OSHA: Occupational Safety and Health Administration
- PEL: Permissible exposure limit
- PICCS: Philippine Inventory of Chemicals and Chemical Substances
- RTECS: Registry of Toxic Effects of Chemical Substances
- SDS: Safety Data Sheet
- STEL: Short Term Exposure Limit
- TDG: Canadian Transportation of Dangerous Goods Act & Regulations
- TLV: Threshold Limit Values
- TWA: Time Weighted Average
- TSCA: Toxic Substance Control Act
- WHMIS: Workplace Hazardous Materials Identification System

**References** : 1. Material Safety Data Sheet from manufacturer.

**Preparation Date (mm/dd/yyyy)**  
: 02/14/2019

**Other special considerations for handling**  
: Provide adequate information, instruction and training for operators.

**Prepared for:**

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## **SAFETY DATA SHEET**

### **DISCLAIMER**

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