

MATERIAL SAFETY DATA SHEET**SECTION 1: IDENTIFICATION****Product identifier** : **STOP SMOKIN****Product Use** : Engine oil additive.**Chemical Family** : Mixture.**Manufacturer part no.** : M5714C**Supplier's name and address:****Radiator Specialty Co., of Canada**1711 Aimco Blvd.
Mississauga, ON, Canada
L4W 1H7**Manufacturer's name and address:**

Refer to Supplier

Information Telephone # : (905) 625-9117 (Monday - Friday, 8 AM - 4 PM)**24 Hr. Emergency Tel #** : 613-996-6666 (CANUTEC)**SECTION 2 - HAZARDS IDENTIFICATION**

Classification : WHMIS information: This product is a WHMIS Controlled Product. It meets one or more of the criteria for a controlled product provided in Part IV of the Canadian Controlled Products Regulations (CPR).
WHMIS classification:
Class D2B (Materials Causing Other Toxic Effects, Toxic Material).

Labelling: Phrases recommended to appear on a supplier label, can be found in Section 15.

WHMIS symbols required on a supplier label:

**Emergency Overview**: Light yellow. Mild odour.
WARNING!

Causes eye irritation. Fumes from heated product or mists may irritate respiratory tract. Prolonged or repeated skin contact may cause drying and irritation.

POTENTIAL HEALTH EFFECTS:**Signs and symptoms of short-term (acute) exposure**

Inhalation : If product is heated or mists are formed, inhalation may cause irritation to the nose, throat and respiratory tract. Overexposure to sprays or mists may cause chemical pneumonitis (inflammation of lung tissue).

Skin : May cause mild skin irritation.

Eyes : May cause moderate to severe irritation.

Ingestion : May cause irritation of mouth, throat, and stomach. May cause nausea, stomach pain and vomiting.

Effects of long-term (chronic) exposure

: Prolonged or repeated skin contact may cause defatting and drying resulting in irritation and possible dermatitis.

Carcinogenic status : See TOXICOLOGICAL INFORMATION, Section 11.**Additional health hazards** : See TOXICOLOGICAL INFORMATION, Section 11.**Potential environmental effects**

: See ECOLOGICAL INFORMATION, Section 12.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredients | CAS # | Wt.% |
|--|--------------|----------------|
| Distillates (petroleum), acid-treated heavy naphthenic | 64742-18-3 | 60.00 - 100.00 |
| Ethylene/Propylene Co-Polymer | 25190-87-8 | 10.00 - 30.00 |
| Zinc dithiophosphate | 19210-06-1 | 1.00 - 5.00 |

SECTION 4 - FIRST AID MEASURES

- Inhalation** : Move to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. If irritation persists, seek prompt medical attention.
- Skin contact** : Remove contaminated clothing and shoes. Wash exposed area thoroughly with soap and water for at least 15 minutes. If irritation persists, seek prompt medical attention.
- Eye contact** : Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
- Ingestion** : Do not induce vomiting. Consult a physician. Never give anything by mouth to an unconscious person.
- Notes For Physician** : Treat symptomatically.

SECTION 5 - FIRE FIGHTING MEASURES**Fire hazards/conditions of flammability**

- : Not flammable under normal conditions of use. However, may ignite if exposed to extreme heat and flame. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Product may float, and be re-ignited at the water's surface.

Oxidizing properties : None known.

Explosion data: Sensitivity to mechanical impact / static discharge

- : Not expected to be sensitive to mechanical impact or static discharge.

Suitable extinguishing media : Dry chemical, foam, carbon dioxide and water fog. Do not use water jet, as this may spread burning material.

Special fire-fighting procedures/equipment

- : Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame.

Hazardous combustion products

- : Carbon oxides; Sulphur oxides; Phosphorus compounds; Zinc oxide; Oxides of nitrogen.; Other unidentified organic compounds.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

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

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

Spill response/cleanup : Ventilate area of release. Remove all sources of ignition. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Notify the appropriate authorities as required.

Prohibited materials : Do not use combustible absorbents, such as sawdust.

SECTION 7 - HANDLING AND STORAGE

Safe Handling procedures : Use in a well-ventilated area. Wear suitable protective equipment during handling. Avoid breathing fumes. Avoid contact with skin, eyes and clothing. Keep away from extreme heat and flame. Avoid contact with incompatible materials. Wash thoroughly after handling. Keep container tightly closed when not in use.

- Storage requirements** : Store in a cool, dry, well-ventilated area. Keep away from direct sunlight. Store away from incompatible materials. 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** : Strong oxidizing agents; Acids; Amines.
- Special packaging materials** : Always keep in containers made of the same materials as the supply container.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

| <u>Exposure Limits</u> | | | | |
|--|--|-------------|--|-------------|
| <u>Ingredients</u> | <u>ACGIH TLV</u> | | <u>OSHA PEL</u> | |
| | <u>TWA</u> | <u>STEL</u> | <u>PEL</u> | <u>STEL</u> |
| Distillates (petroleum), acid-treated heavy naphthenic | 5 mg/m ³ (As 'Oil mist, mineral') (inhalable) | N/Av | 5 mg/m ³ (As 'Oil mist, mineral') | N/Av |
| Ethylene/Propylene Co-Polymer | N/Av | N/Av | N/Av | N/Av |
| Zinc dithiophosphate | N/Av | N/Av | N/Av | N/Av |

Ventilation and engineering measures

- : Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.

Respiratory protection : If the TLV is exceeded, a NIOSH/MSHA-approved respirator is advised. Advice should be sought from respiratory protection specialists.

Skin protection : Gloves impervious to the material are recommended. Advice should be sought from glove suppliers. Depending on conditions of use, an impervious apron should be worn.

Eye / face protection : Chemical splash goggles are recommended.

Other protective equipment : An eyewash station and safety shower should be made available in the immediate working area.

General hygiene considerations

- : Avoid breathing fumes. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink, smoke or use cosmetics while working with this product. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|---|------------------------------|---|-----------------|
| Physical state | : Liquid. | Appearance | : Light yellow. |
| Odour | : Mild odour. | Odour threshold | : N/Av |
| pH | : N/Av | | |
| Boiling point | : 302°C | Specific gravity | : 0.86 |
| Melting/Freezing point | : N/Av | Coefficient of water/oil distribution | : N/Av |
| Vapour pressure (mmHg @ 20° C / 68° F) | : < 0.1 | Solubility in water | : Insoluble. |
| Vapour density (Air = 1) | : N/Av | Evaporation rate (n-Butyl acetate = 1) | : N/Av |
| Volatile organic Compounds (VOC's) | : N/Av | Volatiles (% by weight) | : N/Av |
| Flash point | : 100°C | | |
| Flash point Method | : Cleveland Open Cup | Auto-ignition temperature | : N/Av |
| Lower flammable limit (% by vol.) | : N/Av | Upper flammable limit (% by vol.) | : N/Av |
| Flame Projection Length | : N/Av | Flashback observed | : N/Av |
| Absolute pressure of container | : N/Av | Viscosity | : N/Av |
| General Information | : No additional information. | | |

Section 10: STABILITY AND REACTIVITY

- Stability and reactivity** : Stable under the recommended storage and handling conditions prescribed.
- Hazardous polymerization** : Hazardous polymerization does not occur.

Conditions to avoid : Avoid heat and open flame. Avoid contact with incompatible materials. Do not use in areas without adequate ventilation.

Materials To Avoid And Incompatibility
: Oxidizing agents; Acids; Amines.

Hazardous decomposition products
: None known, refer to hazardous combustion products in Section 5.

SECTION 11 - TOXICOLOGICAL INFORMATION

Target organs : Eyes, skin, respiratory system and digestive system.

Routes of exposure : *Inhalation:* YES *Skin Absorption:* NO *Skin & Eyes:* YES *Ingestion:* YES

Irritancy : Mild skin irritant. Moderate to severe eye irritant.

Toxicological data : There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

| <u>Ingredients</u> | LC₅₀ (4hr) <u>inh, rat</u> | LD₅₀ | |
|--|---|------------------------|-------------------------|
| | | <u>(Oral, rat)</u> | <u>(Rabbit, dermal)</u> |
| Distillates (petroleum), acid-treated heavy naphthenic | N/Av | > 5000 mg/kg | > 2000 mg/kg |
| Ethylene/Propylene Co-Polymer | N/Av | N/Av | N/Av |
| Zinc dithiophosphate | N/Av | 4170 mg/kg | > 5010 mg/kg |

Carcinogenic status : No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

Reproductive effects : Not expected to cause reproductive effects.

Teratogenicity : Not expected to be a teratogen.

Mutagenicity : Not expected to be mutagenic in humans.

Epidemiology : None known or reported by the manufacturer.

Sensitization to material : Not expected to be a skin or respiratory sensitizer.

Synergistic materials : None known or reported by the manufacturer.

other important hazards : None known or reported by the manufacturer.

Conditions aggravated by overexposure
: Pre-existing skin, eye and respiratory disorders.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity : The ecological characteristics of this product have not been fully investigated. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.

See the following tables for individual ingredient ecotoxicity data.

Ecotoxicity data:

| <u>Ingredients</u> | CAS No | Toxicity to Fish | | |
|--|---------------|---|----------------------|-----------------|
| | | LC50 / 96h | NOEC / 21 day | M Factor |
| Distillates (petroleum), acid-treated heavy naphthenic | 64742-18-3 | > 1000 mg/L (Rainbow trout) (Read-across) | N/Av | None. |
| Ethylene/Propylene Co-Polymer | 25190-87-8 | N/Av | N/Av | None. |
| Zinc dithiophosphate | 19210-06-1 | N/Av | N/Av | None. |

| <u>Ingredients</u> | CAS No | Toxicity to Daphnia | | |
|--|------------|------------------------------------|---------------|----------|
| | | EC50 / 48h | NOEC / 21 day | M Factor |
| Distillates (petroleum), acid-treated heavy naphthenic | 64742-18-3 | > 1000 mg/L (Daphnia magna) (QSAR) | N/Av | None. |
| Ethylene/Propylene Co-Polymer | 25190-87-8 | N/Av | N/Av | None. |
| Zinc dithiophosphate | 19210-06-1 | N/Av | N/Av | None. |

| <u>Ingredients</u> | CAS No | Toxicity to Algae | | |
|--|------------|--|-------------------|----------|
| | | EC50 / 96h or 72h | NOEC / 96h or 72h | M Factor |
| Distillates (petroleum), acid-treated heavy naphthenic | 64742-18-3 | > 1000 mg/L/72hr (Green algae) (Read-across) | N/Av | None. |
| Ethylene/Propylene Co-Polymer | 25190-87-8 | N/Av | N/Av | None. |
| Zinc dithiophosphate | 19210-06-1 | N/Av | N/Av | None. |

Mobility : No data is available on the product itself.
Persistence : No data is available on the product itself.
Bioaccumulation potential : No data is available on the product itself. See the following data for ingredient information.

| <u>Components</u> | <u>Partition coefficient n-octanol/water (log Kow)</u> | <u>Bioconcentration factor (BCF)</u> |
|---|--|--------------------------------------|
| Distillates (petroleum), acid-treated heavy naphthenic (CAS 64742-18-3) | 3.9 - 6 (calculated) | N/Av |

Other Adverse Environmental effects

: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13 - DISPOSAL CONSIDERATIONS

Handling for Disposal : Handle waste according to recommendations in Section 7.
Methods of Disposal : Dispose of in accordance with federal, provincial and local hazardous waste laws.

SECTION 14: TRANSPORT INFORMATION

| Regulatory Information | UN Number | Shipping Name | Class | Packing Group | Label |
|----------------------------|-----------|----------------|---------------|---------------|---|
| TDG | None | Not regulated. | Not regulated | None |  |
| TDG Additional information | None. | | | | |

SECTION 15 - REGULATORY INFORMATION**Labelling:**

WARNING! Causes eye irritation. Fumes from heated product or mists may irritate respiratory tract. Prolonged or repeated skin contact may cause drying and irritation.

Precautions: Use in a well-ventilated area. Wear suitable protective equipment during handling. Do not breathe fumes or mists. Avoid contact with skin, eyes and clothing. Keep away from extreme heat and flame. Avoid contact with incompatible materials. Wash thoroughly after handling. Store in a cool, dry, well ventilated area, away from heat and ignition sources.

FIRST AID: If inhaled, move to fresh air. If breathing stops, provide artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. If irritation persists, seek prompt medical attention. For skin contact, immediately remove contaminated clothing then wash thoroughly with soap and water for at least 15 minutes. If irritation persists, seek prompt medical attention. For eye contact, flush with running water for at least 15 minutes. Seek immediate medical attention/advice. If ingested, do not induce vomiting. Consult a physician. Never give anything by mouth to an unconscious person.

Refer To Material Safety Data Sheet for further information.

Canadian Information:

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

US Federal Information:

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

SECTION 16 - OTHER INFORMATION

Legend

: ACGIH: American Conference of Governmental Industrial Hygienists
CAS: Chemical Abstract Services
HSDB: Hazardous Substances Data Bank
IARC: International Agency for Research on Cancer
Inh: Inhalation
LC: Lethal Concentration
LD: Lethal Dose
MSHA: Mine Safety and Health Administration
N/Ap: Not Applicable
N/Av: Not Available
NIOSH: National Institute of Occupational Safety and Health
NOEC: No observable effect concentration
NTP: National Toxicology Program
OECD: Organisation for Economic Co-operation and Development
OSHA: Occupational Safety and Health Administration
PEL: Permissible exposure limit
RTECS: Registry of Toxic Effects of Chemical Substances
STEL: Short Term Exposure Limit
TDG: Canadian Transportation of Dangerous Goods Act & Regulations
TLV: Threshold Limit Values
TWA: Time Weighted Average
WHMIS: Workplace Hazardous Materials Identification System

References

- : 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2016.
2. International Agency for Research on Cancer Monographs, searched 2016.
3. Canadian Centre for Occupational Health and Safety, CCIInfoWeb databases, 2016 (Chempendium, HSDB and RTECs).
4. Material Safety Data Sheets from manufacturer.
5. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2016.

Prepared for:

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MSDS Preparation Date (mm/dd/yyyy)

: 07/05/2007

MSDS Revision Date (mm/dd/yyyy)

: 06/17/2016

Revision No.

: 4

Revision Information

: (M)SDS sections updated:
11. TOXICOLOGICAL INFORMATION (Toxicological data);
12. ECOLOGICAL INFORMATION.

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