Page 1 of 5

# MATERIAL SAFETY DATA SHEET

## **SECTION 1: IDENTIFICATION**

Product identifier : HEAT-PRUF PLUMBERS GREASE

Product Use : Grease.

Chemical Family : Mixture.

Manufacturer part no. : GR1, GR1V

Supplier's name and address: Manufacturer's name and address:

Radiator Specialty Co., of Canada Refer to Supplier

1711 Aimco Blvd.

Mississauga, ON, Canada

L4W 1H7

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 not a WHMIS controlled product in Canada. It does not

meet any of the criteria for a controlled product provided in Part IV of the Controlled

Products Regulations (CPR).



**Emergency Overview**: Semi-solid. Petroleum odour.

Fumes from heated product or mists may irritate respiratory tract. May have laxative effects. May cause

mild transient irritation. May be an aspiration hazard.

## **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.

Skin : May cause mild skin irritation.Eyes : May cause mild eye irritation.

Ingestion: May have laxative effects. May cause nausea, vomiting, and diarrhea. May be an aspiration hazard.

Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which

can be fatal.

Effects of long-term (chronic) exposure

: None known or reported by the manufacturer.

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

<u>Ingredients</u>	CAS#	Wt.%
Mineral oil	Proprietary	60.00 - 100.00

## **SECTION 4 - FIRST AID MEASURES**

Inhalation : If inhaled, move to fresh air. If breathing has stopped, give artificial respiration. If

symptoms develop, seek medical attention.

Skin contact : Remove contaminated clothing. Wash exposed area thoroughly with soap and water for at

least 15 minutes. If irritation persists, seek prompt medical attention.

## **HEAT-PRUF PLUMBERS GREASE**

Eye contact

MSDS Revision Date (mm/dd/yyyy): 07/24/2013

: Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists,

seek prompt medical attention.

**Ingestion**: Seek immediate medical attention/advice. Do not induce vomiting. 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. 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. Vapours are heavier than air and collect in confined and low-lying areas.

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

Spill response/cleanup

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

Ventilate area of release. Remove all sources of ignition. Contain and absorb spilled

material with inert, non-combustible absorbent material, such as sand. Notify the appropriate

authorities as required.

Prohibited materials : None known.

# **SECTION 7 - HANDLING AND STORAGE**

Safe Handling procedures : Use in a well-ventilated area. Wear suitable protective equipment during handling. Avoid

breathing vapours. Avoid contact with skin, eyes and clothing. Keep away from extreme heat and flame. Avoid contact with incompatible materials. Wash thoroughly after

handling. Keep containers closed when not in use.

Storage requirements : Store in a cool, dry, well-ventilated area. Keep away from direct sunlight. Inspect periodically

for damage or leaks.

Incompatible materials : Strong oxidizing agents

Special packaging materials : Always keep in containers made of the same materials as the supply container.

#### SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits					
	ACGIH	TLV_	OSHA PEL		
<u>Ingredients</u>	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	STEL	
Mineral oil	5mg/m³ (As 'Oil mist, mineral')	N/Av	5mg/m³ (As 'Oil mist, mineral')	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.

#### **HEAT-PRUF PLUMBERS GREASE**

MSDS Revision Date (mm/dd/yyyy): 07/24/2013

Page 3 of 5

: Gloves impervious to the material are recommended. Advice should be sought from Skin protection

glove suppliers. Depending on conditions of use, an impervious apron should be worn.

Safety glasses with side-shields or chemical splash goggles. Eye / face protection

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

General hygiene considerations

: Avoid breathing vapors or mists. Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Wash contaminated clothing before reuse. Wash hands thoroughly after using this product, and before eating, drinking or smoking.

#### SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state Semi-solid. **Appearance** : gel Odour Petroleum odour. Odour threshold : N/Av

pН N/Av

**Boiling point** : N/Av : 0.99500 Specific gravity Melting/Freezing point 284°C Coefficient of water/oil distribution : N/Av

Vapour pressure (mmHg @ 20° C / 68° F) Solubility in water : Negligible

< 0.1

Vapour density (Air = 1) : >1 Evaporation rate (n-Butyl acetate = 1)

: < 0.01

Volatile organic Compounds (VOC's) Volatiles (% by weight) : N/Av

: N/Av

Flash point 450°C

Flash point Method Cleveland Open Cup Auto-ignition temperature : N/Av Upper flammable limit (% by vol.) Lower flammable limit (% by vol.) N/Av : N/Av

Flame Projection Length : N/Av Flashback observed : N/Av Absolute pressure of container Viscosity : N/Av

: N/Av

**General InformatioIn** : 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.

Materials To Avoid And Incompatibility

: Strong oxidizing agents

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 Skin Absorption: NO Ingestion: YES Inhalation: YES Skin & Eyes: YES

Irritancy

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

for individual ingredient acute toxicity data.

	LCso(4hr)	LDs	50
<u>Ingredients</u>	inh, rat	(Oral, rat)	(Rabbit, dermal)
Mineral oil	N/Av	N/Av	N/Av

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

Reproductive effects Not expected to cause reproductive effects.

**Teratogenicity** : Not expected to be a teratogen.

Mutagenicity : Not expected to be mutagenic in humans. : None known or reported by the manufacturer. **Epidemiology** 

## **HEAT-PRUF PLUMBERS GREASE**

MSDS Revision Date (mm/dd/yyyy): 07/24/2013

Page 4 of 5

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** 

: No data is available on the product itself. 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>	040 N	Toxicity to Fish		
	CAS No	LC50 / 96h	NOEC / 21 day	M Factor
Mineral oil	Proprietary	N/Av	N/Av	None.

<u>Ingredients</u>	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Mineral oil	Proprietary	N/Av	N/Av	None.

<u>Ingredients</u>	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Mineral oil	Proprietary	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.

Other Adverse Environmental effects

: No data is available on the product itself.

## **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: TRANPORT INFORMATION**

Regulatory Information	UN Number	Shipping Name	Class	Packing Group	Label
TDG	None	Not regulated.	not regulated	none	$\bigotimes$
TDG Additional information	None.				

## SECTION 15 - REGULATORY INFORMATION

# Labelling:

This product is not a WHMIS controlled product in Canada. As such, this product does not require a WHMIS Supplier label.

MSDS Revision Date (mm/dd/yyyy): 07/24/2013

Page 5 of 5

## 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 in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and this MSDS contains all 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

IARC: International Agency for Research on Cancer

Inh: Inhalation

LC: Lethal Concentration LD: Lethal Dose N/Ap: Not Applicable N/Av: Not Available

NIOSH: National Institute of Occupational Safety and Health

NOEC: No observable effect concentration

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. Material Safety Data Sheets from manufacturer.

### Prepared for:

Radiator Specialty Co. of Canada

1711 Aimco Blvd.

Mississauga, ON, Canada, L4W 1H7

Telephone: 905-625-9117 (Mon. - Fri., 8 AM - 4 PM) Please direct all enquiries to Radiator Specialty.

### Prepared by:

ICC The Compliance Center Inc. http://www.thecompliancecenter.com



## DISCLAIMER OF LIABILITY

This Material Safety Data Sheet was prepared by ICC The Compliance Center Inc. using information provided by Radiator Specialty Co. of Canada and CCOHS' Web Information Service. The information in the Material Safety Data Sheet is offered for your consideration and guidance when exposed to this product. ICC The Compliance Center Inc and Radiator Specialty Co. of Canada expressly disclaim all expressed or implied warranties and assume no responsibilities for the accuracy or completeness of the data contained herein. The data in this MSDS does not apply to use with any other product or in any other process.

This Material Safety Data Sheet may not be changed, or altered in any way without the expressed knowledge and permission of ICC The Compliance Center Inc. and Radiator Specialty Co. of Canada.

### MSDS Preparation Date (mm/dd/yyyy)

: 08/13/2007

MSDS Revision Date (mm/dd/yyyy)

: 07/24/2013

Revision No. : 3

**Revision Information** : (M)SDS sections updated:

12. ECOLOGICAL INFORMATION.