SHRADERCANADA

10950830A ACDelco Radiator Rust Inhibitor for Kit 993367

W03462



Section 1: Chemical Product and Company Identification

Manufacturer / Supplier:

Shrader Canada Limited

Address:

830 Progress Court, Oakville, Ontario L6L 6K1

Revision Date:

01/21/2011

Product Use:

Cooling system lubricant and rust inhibitor.

Chemical Family:

Glycol emulsion.

Section 2: Composition/Information on Ingredients

Component Name:	%	LD50 and LC50	ACGIH TWA	Ecotoxicity - Aquatic Toxicity
Ethylene glycol 107-21-1	3-7	Oral LD50 Rat:4000 mg/kg Dermal LD50 Rabbit:9530 pL/kg	Not available	LC50 (96 h) goldfish: 27500 mg/L. Cond: LC50 (96 h) rainbow trout: 41000 mg/L. Cond: LC50 (96 h) bluegill: 27500 mg/L. Cond: LC50 (48 h) water flea: 46300 mg/L EC50 (30 min) Photobacterium phosphoreum: 620.0 mg/L
Distillates (petroleum), hydrotreated heavy naphthenic 64742-52-5	1-5	Inhalation LC50 Rat:2.18 mg/L 4h Dermal LD50 Rabbit:2000 mg/kg Oral LD50 Rat:5000 mg/kg	Not available	Not Available
Sodium 2-mercaptobenzothiazole 2492-26-4	1-5	Oral LD50 Rat:750 mg/kg Dermal LD50 Rabbit:1250 mg/kg	Not available	mg/L. Cond: mg/L. Cond: LC50 (96 h) rainbow trout: 1.3 mg/L. Cond: LC50 (48 h) water flea: 15 mg/L

Section 3: Hazards Identification

Ingestion:

Ingestion of small amounts during normal handling are not likely to cause injury. Larger amounts may cause effects similar to those described under inhalation. Ingestion of large amounts may cause

stomach irritation.

Inhalation:

Very low volatility - not an inhalation hazard at normal temperatures. High concentrations may cause respiratory irritation and central nervous system depression with results ranging from dizziness and headache to unconsciousness. Skin irritant. May cause an allergic skin reaction.

Skin Contact: Eye Contact:

Eve irritant.

Chronic Effects:

Chronic prolonged exposures to Ethylene Glycol may cause central

nervous system effects, liver and kidney damage.

Product: 10950830A Revision: 2011-01-21 1 of 4

Section 4: First Aid Measures

Do not induce vomiting. Never give anything by mouth if victim Ingestion:

is rapidly losing consciousness, is unconscious or is convulsing. Drink two glasses of water. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Obtain medical

attention immediately.

If inhaled, remove to fresh air. If breathing is difficult give Inhalation:

oxygen. If not breathing give artificial respiration and get

medical attention immediately.

Remove contaminated clothing and launder before reuse. Wash with Skin Contact: soap and water. Seek medical attention if irritation persists.

Immediately flush eyes with large amounts of water for at least 15 minutes, lifting upper and lower lids. Remove contact lenses if any after the initial flushing and then continue flushing. Get

medical attention if irritation persists.

Section 5: Fire Fighting Measures

Not Applicable. Flash Point (°C): Not Applicable. Flame Projection: Not Applicable NFPA Classification: Lower Explosive Limit: Not Available Not Available Upper Explosive Limit: Autoignition Temp. (°C): Not Available

Sensitivity to Mechanical Impact:

Not Available

Eye Contact:

Conditions of Flammability:

Essentially non-flammable. Vapours are heavier than air and may travel or be moved along the ground to an ignition source at locations distant from material handling.

Sensitivity to Static Discharge:

Not Available

Hazardous Combustion:

Carbon dioxide, carbon monoxide and other unidentified organic compounds.

Extinguishing Media:

Alcohol foam or water fog for large fires. Carbon dioxide or dry chemical for small fires.

Section 6: Accidental Release Measures

Leak or Spill Procedures:

Contain spilled material. Avoid contamination of natural waterways. Wear suitable protective clothing. Follow applicable explosion and fire precautions during the response. Stop the spill at the source when safe to do so. For large spills, dike the area to prevent spreading. Pump excess to a salvage container. Absorb residues and small spills with a non-flammable absorbant material and collect adsorbate for disposal. For large quantities, refer to the environmental ministry.

Section 7: Handling and Storage

Handling Procedures:

Use with adequate ventilation. Avoid breathing vapours or mist. Avoid skin and eye contact. Wear all appropriate personal protective equipment during use. Use good personal hygiene. Avoid smoking, eating and drinking during use. Wash with soap and water after handling. Containers of this material may contain hazardous residues when emptied. Do not cut, weld, drill or grind on or near this container.

Storage Requirements:

Store in a cool area, away from all sources of heat, ignition and incompatibles. Keep containers tightly closed when not in use. Keep from freezing.

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Section 8: Exposure Controls / Personal Protection

Not normally required. If the TLV is exceeded, a NIOSH-approved Respiratory:

respirator is advised.

Rubber gloves. Polyvinyl chloride (PVC). Gloves:

Safety glasses. Contact lenses should not be worn. They may Eyewear:

contribute to the severity of the injury.

Sufficient clothing to prevent skin contact. Clothing:

Sufficient mechanical ventilation to maintain exposures below the Ventilation: TLV. General mechanical ventilation is not recommended as the sole

means of controlling exposure. Make-up air should always be

supplied to balance air exhausted.

Other protective equipment: Emergency showers and eyewash facilities should be nearby. The

selection of personal protective equipment will vary depending on

the conditions of use.

Section 9: Physical and Chemical Properties

Liquid Physical State:

Not Available Color: Mild odour. Odour:

> 1 Vapour Density (Air=1): VOC %:

8.0 to 11.5 (Neat)

Completely. Solubility in Water:

Specific Gravity (H2O=1): 0.99 to 1.100 at 15°C

< 14cSt Viscosity:

Section 10: Stability and Reactivity

Conditions of Instability:

Stable at ambient and moderately elevated temperatures and pressures.

Hazardous Polymerization:

Hazardous polymerization will not occur.

Hazardous Decomposition:

See hazardous combustion products.

Incompatible Materials:

Avoid strong oxidizers (e.g HOOH, HNO3). Material is reactive with hydroxyl compounds.

Conditions of Reactivity:

Explosive decomposition of ethylene glycol may occur if combined with strong acides or bases at elevated temperatures.

Section 11: Toxicological Information

Irritancy of Product:

Skin irritant. Eye irritant. Vapours or mists may cause respiratory irritation.

Sensitization to product:

May cause allergic skin reaction.

Carcinogenicity:

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

Reproductive Effects:

Not Available

Teratogenicity:

Embryotoxicity and teratogenicity observed in animal studies when exposed to ethylene glycol. Doses were not toxic to the mother.

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Mutagenicity: Not Available

Synergystic Products:

Not Available

Section 12: Ecological Information

May be harmful to aquatic life. See composition/information on Environmental:

ingredients.

At very low concentrations, ethylene glycol is biodegradable in Biodegradability:

a biological wastewater treatment plant.

Section 13: Disposal Considerations

Reuse or recycling should be given priority over disposal under Waste Disposal:

any circumstances. Do not dump unused contents into sewers, on the ground or into any body of water. Destroy by incineration or biological treatment according to applicable legislation. Dispose

of in accordance with municipal, provincial and federal

requlations.

Section 14: Transportation Information

Not regulated by TDGR. Road shipment:

Not regulated by IMDG. Marine shipment:

Not regulated by IATA, ICAO. Air Shipment:

None required. Exemption:

Section 15: Regulatory Information

WHMIS: D2A

CEPA: All components are listed on the Domestic Substances List (DSL).

CPR Compliance: This product has been classified in accordance with the hazard criteria of

the CPR and the MSDS contains all of the information required by the CPR.

Section 16: Other Information

HMIS Rating:

Regulatory Compliance, Shrader Canada Limited Prepared By:

800-201-9486, 905-847-0222 Information Tel #:

905-847-5404 Information Fax #:

CANUTEC EMERGENCY: 613-996-6666

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MATERIAL SAFETY DATA SHEET

Print Date: 09.Oct.2012

SUC: 11-Corrosives - Concentrated Base - pH >

External Key: CN03463

SHRADERCANADA#

10950831 **GM Radiator Stop Leak**



830 Progress Court, Oakville, Ontario L6L 6Kl

CN03463

Section 1: Chemical Product and Company Identification Shrader Canada Limited

Manufacturer / Supplier:

Address:

Revision Date: Product Use: Chemical Family:

12/15/2010 Radiator punoture sealant

Mixture

Section 2: Composition/Information on Ingredients

Section Et Company			ACOXH THA	Ecotoxicity - Aquatic
Component Name: Ethylene glycol 107-21-1	% 10-30	LD50 and £050 Oral LD50 Rat:4000 Eg/kg Dexmal LD50 Rabbit:9530 pb/kg	Not available	roxicity 1c50 (96 h) goldfishi 27500 mg/L. Cond: 1c50 (98 h) reimbow trout: 41000 mg/L. Cond: 1c50 (96 h) bluegill: 27500 mg/L. Cond: 1c50 (48 h) water fies: 46300 mg/L EC50 (30 min) Photobacterium phosphoreum: 620,0 mg/L
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Hazards Identification Section 3:

Ingostion:

Ethlyone Glycol can cause significant harmful effects if ingested. Symptoms include kidney injury, nervous system injury and death.

Inhalations

Very low volatility - not an inhalation hazard at normal temperatures. High concentrations may cause respiratory

irritation and central nervous system depression with results ranging from dizziness and headache to unconsciousness. Non-irritating to a very mild skin irritant.

Skin Contact:

Eye Contact:

Chronic Effects:

May cause mild eye irritation. Chronic prolonged exposures to Ethylene Glycol may cause central

nervous system effects, liver and kidney damage.

Section 4: First Ald Measures

Ingestioni

Do not induce vomiting. Never give anything by mouth if victim is rapidly losing consciousness, is unconscious or is convulsing. Drink two glasses of water. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Obtain medical

Inhalations

Not a hazard under normal use conditions. If inhaled, remove to fresh air. If breathing is difficult give oxygen. If not breathing give artificial respiration and get medical attention immediately. Remove contaminated clothing and launder before reuse. Wash with

Skin Contact: Eve Contact:

scap and water. Seek medical attention if irritation persists. Immediately flush eyes with large amounts of water for at least 15 minutes, lifting upper and lower lids. Remove contact lenses

if any after the initial flushing and then continue flushing.

Product: 10950831

Revision: 2010-12-15

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SUC: 11-Corrosives - Concentrated Base - pH >

MATERIAL SAFETY DATA SHEET

Print Date: 09.Oct.2012

External Key: CN03463

Section 5: Fire Fighting Measures

Flash Point (°C) t

Flame Projection:

Not Applicable.

NFPA Classification:

Combustible Liquid, Class IIIB Not Available

Lower Explosive Limit: Upper Explosive Limit:

Not Available

Autoignition Temp. (°C):

Not Available

Sensitivity to Mechanical Impact:

Not Available

Essentially non-flammable. Vapours are heavier than air and may travel or be moved along the ground to an ignition source at locations distant from material handling.

Sensitivity to Static Discharge:

Not Available

Carbon dioxide, carbon monoxide and other unidentified organic compounds.

Alcohol foam or water fog for large fires. Carbon dioxide or dry chemical for small fires. Use water spray to cool fire exposed containers and prevent bursting. Do not use a direct stream of water.

Section 6: Accidental Release Measures

Contain spilled material. Avoid contamination of natural waterways. Wear suitable protective clothing. Follow applicable explosion and fire precautions during the response. Stop the spill at the source when safe to do so. For large spills, dike the area to prevent spreading. Pump excess to a salvage container. Absorb residues and small spills with a non-flammable absorbent material and collect adsorbate for disposal. For large quantities refer to the environmental ministry.

Section 7: Handling and Storage

Use with adequate ventilation. Avoid breathing vapours or mist. Use good personal hygiene. Avoid smoking, eating and drinking during use. Wash with soap and water after handling.

Store in a cool area, away from all sources of heat, ignition and incompatibles. Keep away from children. Keep containers tightly closed when not in use. Keep from freezing.

Section 8: Exposure Controls / Personal Protection

Respiratory:

Not normally required. If the TLV is exceeded, a NIOSH-approved

respirator is advised. Rubber gloves, Polyvinyl chloride (PVC),

dloves: Eyawaari Safety glasses. Contact lenses should not be worn. They may

contribute to the severity of the injury.

Clothing: Ventilation: Sufficient clothing to prevent skin contact. Sufficient mechanical ventilation to maintain exposures below the TLV. General mechanical ventilation is not recommended as the sole/

means of controlling exposure. Make-up air should always be

supplied to balance air exhausted.

Other protective equipment: Emergency showers and eyewash facilities should be nearby. The selection of personal protective equipment will vary depending on

the conditions of use.

Revision: 2010-12-15

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MATERIAL SAFETY DATA SHEET

Print Date: 09.Oct.2012

SUC: 11-Corrosives - Concentrated Base - pH >

External Key: CN03463

Section 9: Physical and Chemical Properties

Physical State:

Liquid

Colors

Clear / Colorless

Odouri

Mild odour. > 1

Vapour Density (Air=1): VOC %1

0 8.0 to 11.5 (Neat)

: liq

Solubility in Water: Specific Gravity (H2O=1):

Completely. 1.0 to 1.100 @ 15°C

Viscosity

< 14cSt 0 40°C

Section 10: Stability and Reactivity

Stable at ambient and moderately elevated temperatures and pressures.

Hazardous Polymerization:

Hazardous polymerization will not occur.

Hazardous Decomposition:

See hazardous combustion products.

Avoid strong oxidizers (e.g NOON, HNO3). Material is reactive with hydroxyl compounds.

Explosive decomposition of ethylene glycol may occur if combined with strong acides or bases at elevated temperatures.

Section 11: Toxicological Information

Irritancy of Product:

May be mildly irritating to eyes and skin.

Sensitization to product;

Not available.

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

Reproductive Effects:

Not Available

Embryotoxicity and teratogenicity observed in animal studies when exposed to ethylene glycol.

Doses were not toxic to the mother,

Mutagenicity!

Not Available

Synergystic Products:

Not Available

Section 12: Ecological Information

Environmental:

May be harmful to aquatio life. See composition/information on

Biodegradability:

At very low concentrations, ethylene glycol is biodegradable in

a biological wastewater treatment plant.

Revision: 2010-12-15

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SUC: 11-Corrosives - Concentrated Base - pH >

MATERIAL SAFETY DATA SHEET

Print Date: 09.Oct.2012

External Key: CN03463

Section 13: Disposal Considerations

Waste Disposal:

Reuse or recycling should be given priority over disposal under any circumstances. Do not dump unused contents into sewers, on the ground or into any body of water. Destroy by incineration or biological treatment according to applicable legislation, Dispose of in accordance with municipal, provincial and federal regulations.

Section 14: Transportation Information

Road shipment:

Not regulated by TDGR.

Marine ahipment:

Not regulated by INDG.

Air Shipment:

Not regulated by IATA, ICAO.

Exemption:

None required.

Section 15: Regulatory Information

CEPA: All components are listed on the Domestic Substances List (DSL). WHMIS: D2A CPR Compliance: This product has been classified in accordance with the hezard criteria of the CPR and the MSDS contains all of the information required by the CPR.

Section 16: Other Information

HMIS Rating:

Regulatory Compliance, Shrader Canada Limited

prepared By: Information Tel #: 800-201-9486, 905-847-0222

Information Fax H:

905-847-5404

HEAVY YOU AGANOTECT EMBRODNEYS, 61329,66666441.

MATERIAL SAFETY DATA SHEET

Print Date: 09.Oct.2012

External Key: CN03461

SUC: 53-Halogenated Solvents Combustible FP >100 < 200 F

SHRADERCANADA

10953114 ACDelco Radiator Fast Flush

Section 1: Chemical Product and Company Identification

Manufacturer / Supplier:

Shrader Canada Limited

Address:

830 Progress Court, Oakville, Ontario L6L 6K1

Revision Date:

12/15/2010 Cleaner

Product Use: Chemical Family:

Aqueous solution.

Section 2: Composition/Information on Ingredients

CN03461 4PSATE

Campaget Mamor	0/,	LD50 and LC50	ACGIH THA	Ecotoxicity - Aquatic
Component Name:	76		l	Toxioity
No Hazardous Ingredients	60-100	Not Available	Not available	Not Available
PROPRIETARY				

Section 3: Hazards Identification

Ingestion:

Ingestion of small amounts during normal handling are not likely

to cause injury. Ingestion of large amounts may cause stomach

irritation.

Inhalation:

No hazard under normal conditions of use. High concentrations are

irritating to the eyes, nose, throat and lungs.

Skin Contact:

Non-irritating to a very mild skin irritant. May cause mild eye irritation.

Eye Contact: Chronic Effects:

None known.

Section 4: First Aid Measures

Ingestion:

Do not induce vomiting. Never give anything by mouth if victim is rapidly losing consciousness, is unconscious or is convulsing. Drink two glasses of water. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Obtain medical

attention immediately.

Inhalation:

If inhaled, remove to fresh air. If breathing is difficult give oxygen. If not breathing give artificial respiration and get

medical attention immediately.

Skin Contact:

Remove contaminated clothing and launder before reuse. Wash with soap and water. Seek medical attention if irritation persists. Immediately flush eyes with large amounts of water for at least 15 minutes, lifting upper and lower lids. Remove contact lenses

Eve Contact:

if any after the initial flushing and then continue flushing. Get medical attention if irritation persists.

Section 5: Fire Fighting Measures

Flash Point (°C): Not Applicable. Not Applicable. Flame Projection: Not Applicable NFPA Classification: Not Available Lower Explosive Limit: Upper Explosive Limit: Not Available Autoignition Temp. (°C): Not Available

MATERIAL SAFETY DATA SHEET

Print Date: 09.Oct.2012

SUC: 53-Halogenated Solvents Combustible FP

External Key: CN03461

>100 < 200 F

Sensitivity to Mechanical Impact: Not Available

Conditions of Flammability: Essentially non-flammable.

Sensitivity to Static Discharge:

Not Available

Hazardous Combustion:

Carbon dioxide, carbon monoxide and other unidentified organic compounds.

Extinguishing Media:

Alcohol foam or water fog for large fires. Carbon dioxide or dry chemical for small fires. Use water spray to cool fire exposed containers and prevent bursting. Do not use a direct stream of water.

Section 6: Accidental Release Measures

Leak or Spill Procedures:

Contain spilled material. Avoid contamination of natural waterways. Wear suitable protective clothing. Follow applicable explosion and fire precautions during the response. Stop the spill at the source when safe to do so. For large spills, dike the area to prevent spreading. Pump excess to a salvage container. Absorb residues and small spills with a non-flammable absorbant material and collect adsorbate for disposal. For large quantities, refer to the environmental

Section 7: Handling and Storage

Handling Procedures:

Use with adequate ventilation. Avoid breathing vapours or mist. Use good personal hygiene. Avoid smoking, eating and drinking during use. Wash with soap and water after handling. Avoid skin and eye contact.

Storage Requirements:

Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Keep from freezing. Keep away from children.

Section 8: Exposure Controls / Personal Protection

Not normally required. If the TLV is exceeded, a NIOSH-approved Respiratory:

respirator is advised.

Polyvinyl chloride (PVC). Gloves:

Safety glasses. Contact lenses should not be worn. They may Eyewear:

contribute to the severity of the injury.

Sufficient clothing to prevent skin contact. Clothing:

Under normal conditions of use, general ventilation should be Ventilation:

satisfactory. Local ventilation is recommended if the product is misted, or used in confined spaces or if the TLV is exceeded. Make up air should always be supplied to balance air exhausted.

Other protective equipment: Emergency showers and eyewash facilities should be nearby. The

selection of personal protective equipment will vary depending on

the conditions of use.

Section 9: Physical and Chemical Properties

Liquid Physical State:

Not Available Color: Odourless. Odour: Not Available Vapour Density (Air=1):

VOC %:

9.5 at 5% volume Solubility in Water: Completely, Specific Gravity (H2O=1): 1.0 @ 15°C

Revision: 2010-12-15 Product: 10953114

MATERIAL SAFETY DATA SHEET

Print Date: 09.Oct.2012

SUC: 53-Halogenated Solvents Combustible FP >100 < 200 F

External Key: CN03461

Section 9: Physical and Chemical Properties

Viscosity:

Not Available

Section 10: Stability and Reactivity

Conditions of Instability:

Stable at ambient temperatures and pressures.

Hazardous Polymerization:

Hazardous polymerization will not occur.

Hazardous Decomposition:

See hazardous combustion products.

Incompatible Materials:

Avoid acids and strong oxidizers such as chromates, permanganates and chlorates. Avoid aluminum, tin, zinc, copper and their alloys.

Conditions of Reactivity:

Avoid excessive heat, sparks and open flame.

Section 11: Toxicological Information

Irritancy of Product:

May be mildly irritating to eyes and skin.

Sensitization to product:

Contains no known skin or respiratory sensitizers.

Carcinogenicity:

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

Reproductive Effects:

Not Available

Teratogenicity:

Not Available

Mutagenicity:

Not Available

Synergystic Products:

Not Available

Section 12: Ecological Information

Environmental:

May be harmful to aquatic life.

Biodegradability:

Not available.

Section 13: Disposal Considerations

Waste Disposal:

Reuse or recycling should be given priority over disposal under any circumstances. Do not dump unused contents into sewers, on the ground or into any body of water. Destroy by incineration or biological treatment according to applicable legislation, Dispose of in accordance with municipal, provincial and federal

regulations.

MATERIAL SAFETY DATA SHEET

Print Date: 09.Oct.2012

SUC: 53-Halogenated Solvents Combustible FP >100 < 200 F

External Key: CN03461

Section 14: Transportation Information

Road shipment:

Not regulated by TDGR.

Marine shipment:

Not regulated by IMDG.

Air Shipment:

Not regulated by IATA, ICAO

Exemption:

None required.

Section 15: Regulatory Information

WHMIS: Not controlled.

CEPA: All components are listed on the Domestic Substances List (DSL).

CPR Compliance: This product has been classified in accordance with the hazard criteria of

the CPR and the MSDS contains all of the information required by the CPR.

Section 16: Other Information

HMIS Rating:

110B

Prepared By:

Regulatory Compliance, Shrader Canada Limited

Information Tel #:

800-201-9486, 905-847-0222

Information Fax #:

905-847-5404

CANUTEC EMERGENCY: 613-996-6666