



SAFETY DATA SHEET

Issuing Date 16-Sep-22

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Revision Number 1

1. PRODUCT AND COMPANY IDENTIFICATION

Material Name Boss RV Antifreeze

Other means of identification

Product Code(s) GHSRBS-046

Product use Heat transfer medium

Synonyms None known

Restrictions on use No information available

Details of the supplier of the safety data sheet

<u>Initial supplier identifier</u>	<u>Manufacturer Address</u>
BOSS Lubricants	6303 30 ST SE Calgary, AB T2C 1R4

Emergency telephone number

Initial supplier phone number	(800) 844-9457
Emergency Telephone	Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification Not a hazardous substance or mixture according to the Globally Harmonized System (GHS). Not a hazardous substance or mixture according to Canada's Hazardous Product Regulations.

Label Elements

Hazard Statements Not a hazardous substance or mixture according to the Globally Harmonized System (GHS). Not a hazardous substance or mixture according to Canada's Hazardous Product Regulations.

Precautionary Statements

Prevention	Wash hands thoroughly after handling. Do not eat, drink, or smoke when using this product. Do not breathe dust/fume/gas/mist/vapors/spray
Storage	Store locked up
Response	If swallowed, call a poison center or doctor/physician if you feel unwell. Rinse mouth.
Disposal	Dispose of contents/containers in accordance with local, regional, national, and international regulations as applicable.
Unknown acute toxicity	No information available



3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Water	7732-18-5	30 - 60	-	
Propylene Glycol	57-55-6	45 - 70	-	
Dipotassium phosphate	7758-11-4	>1 - 3	-	

If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

Inhalation	Remove victim to fresh air. If not breathing, give artificial respiration. If exposed or concerned, get medical advice/attention.
Eye contact	If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Skin	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if symptoms occur.
Ingestion	Do not induce vomiting. Call a physician or poison control center immediately. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Indication of any immediate medical attention and special treatment needed

Symptoms	Prolonged contact may cause redness and irritation.
Note to physicians	Treat symptomatically

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Carbon dioxide (CO ₂), foam, dry chemical, water spray or fog, alcohol resistant foam.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.
Specific hazards arising from the substance or mixture	Use water spray to cool fire-exposed containers and structures. Isolate and restrict area access. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids. Container may rupture from gas generation in a fire situation. Fight fire from a safe distance and from a protected location. Do not direct a solid stream of water or foam into hot, burning pools; this may cause frothing and increase fire intensity. Consider use of unmanned hose holder or monitor nozzles.

Explosion data

Sensitivity to mechanical impact	None
Sensitivity to static discharge	None
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

Personal precautions Use personal protective equipment as required. See section 8 for more information. Ensure adequate ventilation.

Methods and material for containment and cleaning up

Stop leak if you can do it without risk. Keep out of drains, sewers, ditches, and waterways. Ventilate the area. Avoid breathing vapors or mists. Cover liquid spill with sand, earth, or other non-combustible absorbent material. Prevent product from entering drains.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin, eyes, or clothing. Use only with adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink, or smoke when using this product. Do not ingest. If swallowed, then seek immediate medical assistance. For industrial use only.

Conditions for safe storage, including any incompatibilities

Storage conditions Keep container tightly closed. Keep away from heat, sparks, flame, and other sources of ignition (i.e., pilot lights, electric motors, and static electricity). Do not contaminate food or feed stuffs. Store only in containers resistant to alkaline solutions with a pH of 9.0 to 12.0.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure limits

Chemical Name	Alberta	British Columbia	Ontario	Quebec	Exposure Limit-ACGIH
Propylene Glycol 57-55-6	Not available	Not available	TWA: 10 mg/m ³ (aerosol) TWA: 50 ppm (vapor) TWA: 155 mg/m ³ (vapor)	Not available	Not available

Appropriate engineering controls

Engineering controls Ensure adequate ventilation, especially in confined areas.

Individual Protection Measures, such as Personal Protective Equipment

Eye/Face protection Wear safety glasses with side shields (or goggles). If splashes are likely to occur, wear safety glasses with side-shields. Avoid contact with eyes.

Hand Protection Wear suitable gloves

Skin and body protection Wear suitable protective clothing

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid
Appearance	No information available
Color	Purple
Odor	Odorless
Odor threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks</u>
pH	9.0-10.5	None known
Melting point/freezing point	No data available	None known
Boiling point/boiling range	188°C/317°F	ASTM D7213
Freezing point	No data available	None known
Evaporation Rate	No data available	None known
Flash point	116°C/240°F	ASTM D93
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		
Upper flammability or explosive Limits	No data available	None known
Lower flammability or explosive Limits	No data available	None known
Vapor Pressure	No data available	None known
Vapor Density	No data available	None known
Density	No data available	None known
Volatility	No data available	None known
Relative Density (@ 15°C)	No data available	None known
Specific Gravity(water=1)	No data available	None known
Water Solubility	Completely soluble	None known
n-Octanol/		
Water Partition coefficient	No data available	None known
Pour point	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic Viscosity	No data available	None known

Dynamic Viscosity No data available None known

Other information

Explosive Properties No information available
Oxidizing Properties No information available
Softening Point No information available
Molecular Weight No information available
VOC Content (%) No information available
Liquid Density No information available
Bulk Density No information available

10. STABILITY AND REACTIVITY

Reactivity No information available
Chemical Stability Stable under normal conditions
Possibility of hazardous reactions None under normal processing
Conditions to avoid Heat, flames, and sparks
Incompatibility with other materials Strong oxidizing agents. Strong acids
Hazardous Decomposition Products Thermal decomposition can lead to release of irritating and toxic gases and vapors.

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

Inhalation No known effects under normal use conditions.
Eye contact Irritating to eyes
Skin contact Avoid contact with skin and clothing.
Ingestion Harmful if swallowed. Ingestion of larger amounts may cause defects to the central nervous system (e.g. dizziness, headache). Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause adverse kidney effects.

Symptoms related to the physical, chemical, and toxicological characteristics

Symptoms No information available
Acute Toxicity
Numerical measures of toxicity No information available
Unknown acute toxicity No information available

Product Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Propylene Glycol 57-55-6	=20 g/kg (rat)	=20800 mg/kg (rabbit)	Not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	Based on available data, the classification criteria are not met.
Respiratory or skin sensitization	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.
STOT-Single exposure	Based on available data, the classification criteria are not met.
STOT-Repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity	Harmful to aquatic life
Persistence and degradability	No information available
Bioaccumulation	No information available
Other adverse effects	No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods	Dispose of waste in accordance with environmental legislation. Do not re-use empty containers
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14. TRANSPORT INFORMATION

Transport Canada	Not regulated
TDG	Not regulated
DOT	Not regulated

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer	Not applicable
The Stockholm Convention on Persistent Organic Pollutants	Not applicable
The Rotterdam Convention	Not applicable

Internal Inventories

TSCA	Complies
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DSL/NDSL	Complies
EINECS/ELINCS	Contact supplier for inventory compliance status
ENCS	Contact supplier for inventory compliance status
IECSC	Contact supplier for inventory compliance status
KECL	Contact supplier for inventory compliance status
PICCS	Contact supplier for inventory compliance status
AICS	Contact supplier for inventory compliance status

Legend:

TSCA-Unites States Toxic Substances Control Act Section 8(b) inventory

DSL/NDSL-Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS-European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS-Japan Existing and New Chemical Substances

IECSC-China Inventory of Existing Chemical Substances

KECL-Korean Existing and Evaluated Chemical Substances

PICCS-Philippines Inventory of Chemicals and Chemical Substances

AICS-Australian Inventory of Chemical Substances

16. OTHER INFORMATION

<u>NFPA</u>	Health hazards 0	Flammability 1	Instability 0	Physical and chemical properties -	
<u>HMIS</u>	Health hazards 0	Flammability 1	Physical hazards 0	Personal protection	X

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
 U.S. Environmental Protection Agency ChemView Database
 European Food Safety Authority (EFSA)
 EPA (Environmental Protection Agency)
 Acute Exposure Guideline Level(s) (AEGl(s))
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act U.S.
 Environmental Protection Agency High Production Volume Chemicals
 Food Research Journal
 Hazardous Substance Database
 International Uniform Chemical Information Database (IUCLID)
 Japan GHS Classification
 Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
 NIOSH (National Institute for Occupational Safety and Health)
 National Library of Medicine's ChemID Plus (NLM CIP)
 National Library of Medicine's PubMed database (NLM PUBMED)
 National Toxicology Program (NTP)
 New Zealand's Chemical Classification and Information Database (CCID)
 Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program
 Organization for Economic Co-operation and Development Screening Information Data Set
 RTECS (Registry of Toxic Effects of Chemical Substances)
 World Health Organization

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Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

Data for Regulatory Rules

Region	Template name	Revision Note
Canada	HGHS	2.0

GHS Product Information

Physical state Liquid
 Flash point °C - 116°C/240°F
 Boiling point 188°C/240°F

Component Information

Canada

GHS Classification

Hazard Statement Not a hazardous substance or mixture according to the Globally Harmonized System (GHS) and Canada's Hazardous Products Regulations.
 Signal word None
 Precautionary Statements - Disposal Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable