Issuing Date 15-sep-2022 Revision date 15-Sep-2022 Revision Number 1

1. 1. PRODUCT AND COMPANY IDENTIFICATION

Material Name Boss DEF

Other means of identification

Product Code(s) GHSRBS-138

Product use Diesel exhaust fluid

Synonyms Synthetic blend petroleum oil; lube oil; petroleum hydrocarbon; lubricant.

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

Section 2: HAZARD 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.

Hazard pictograms:



Warning: Causes skin irritation. Causes eye irritation. Harmful if swallowed.

Prevention: Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Do not

breathe mists. Use proper personal protective equipment.

Response

IF ON SKIN: Wash hands thoroughly after handling

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. If irritation persists: Get medical attention.

IF SWALLOWED: Call a doctor/physician if you feel unwell. Rinse mouth.

Store is a cool dry place out of sunlight between 12 deg. F (11 deg C) and 86 deg F (30 deg C)

Disposal: Dispose of content and/or container in accordance with local, regional, national, and/or international

regulations.





Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT

Chemical name	CAS No.	Weight-%	Information Review Act	Date HMIRA filed and date exemption granted (if applicable)
Urea	57-13-6	31.8-33.2	-	
Water	7732-18-5	66.3-67.7	-	

Section 4: FIRST AID MEASURES

Inhaled: Remove to fresh air. Give artificial respiration if not breathing. Get immediate medical attention.

Eye contact: Immediately flush eyes with lots of running water for 15 minutes, lifting the upper and lower lids

occasionally. If eye irritation persists, get medical advice or attention.

Skin contact: Immediately wash skin with soap and water. Remove contaminated clothing and shoes; wash

before re-use. If irritation persists, get medical advice or attention.

Ingestion: Do not induce vomiting. If conscious give 2 glasses of water or milk. Get medical advice or

attention if you feel unwell or are concerned. Do not give anything by mouth to an unconscious or

convulsing person.

First-aid Comments Get medical advice or attention if you feel unwell or are concerned.

Section 5: FIRE FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media Not combustible. Use extinguishing agent suitable for surrounding fire.

Unsuitable Extinguishing Media None known.

Specific Hazards
Arising from the
Product

Does not burn. This product presents no unusual hazards in a fire situation. Closed container may rupture violently when heated releasing contents. In a fire, the following hazardous materials may be generated:

very toxic carbon monoxide, carbon dioxide; corrosive, oxidizing nitrogen oxides.

Special Protective Equipment and Precautions for FireReview Section 6 (Accidental Release Measures) for important information on responding to leaks/spills. See Skin Protection in Section 8 (Exposure Controls/Personal Protection) for advice on suitable chemical

s for Fire- protective materials.

fighters





Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

Personal precautions Wear personal protective clothing and equipment, see Section 8.

Methods and material for containment

and cleaning up

Remove all ignition sources. Do not touch or walk-through spilled product. Stop leak if you can do it without risk. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Ventilate area and avoid breathing vapor or mist. Contain spill away from surface water and sewers. Additionally, for large spills: Dike far ahead of liquid spill for collection and later disposal. Contain spill as a liquid for possible recovery, or sorb with compatible sorbent material and shovel with a clean, spark proof tool into a sealable container for disposal.

Section 7: HANDLING & STORAGE

Handling and Storage Precautions: Store in a cool dry place out of sunlight between 12 deg. f(11°C) and 86° F (30°C)

Other precautions: Caution! Contact with eyes, skin and mucous membranes may cause irritation.

Avoid contact with eyes, skin and clothing

Avoid breathing mist or dust

Use with adequate ventilation

Repair and Maintenance Precautions: Do not cut, grind, weld, or drill on or near containers.

Other Precautions: Containers, even those that have been emptied, will retain product residue and vapors.

Always obey hazard warnings and handle empty containers as if they were full. Contact with aluminum parts in a pressurizable fluid system may cause violent reactions. Consult

equipment supplier for further information.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Component Exposure limits Canada, OSHA, NIOSH, and ACGIH have not developed exposure limits for any of this product's components.

Appropriate engineering controls Provide general ventilation. Where adequate general ventilation is unavailable, use process enclosures,

local exhaust ventilation, or other engineering controls.

Individual Protection Measures, such as Personal Protective Equipment

Respiratory protection A respiratory protection program which meets USA's OSHA General Industry Standard 29 CFR 1910.134 or

Canada's CSA Standard Z94.4-M1982 requirements must be followed whenever workplace conditions warrant a respirator's use. Consult a qualified industrial hygienist or safety professional for respirator

selection guidance.

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. Eye wash fountain and emergency showers are recommended.

Contact lens use is not recommended.

Glove recommendations Where skin contact is likely, wear chemical impervious protective gloves; use of natural rubber or

equivalent gloves is not recommended. To avoid prolonged or repeated contact where spills and splashes are likely, wear appropriate chemical-resistant face shield, boots, apron, coveralls, long sleeve shirts, or

other protective clothing.





Protective Materials

Personal protective equipment should be selected based upon the conditions under which this material is used. A hazard assessment of the work area for PPE requirements should be conducted by a qualified professional pursuant to regulatory requirements. The following PPE should be considered the minimum required: safety glasses, gloves, and lab coat or apron.

None known

Section 9: CHEMICAL AND PHYSICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid Clear **Appearance** Clear Color Odor N/A

Odor threshold No information available

Property Values Remarks рΗ No data available None known Melting point/freezing point No data available None known Boiling point/boiling range 106°C/223°F (min) **ASTM D7213** Freezing point No data available None known **Evaporation Rate** Water Vapor None known Flash point No data available None known Flammability (solid, gas) No data available None known Flammability Limit in Air No data available None known

Upper flammability or explosive

Limits

Lower flammability or explosive No data available

Limits

Vapor Pressure Water Vapor None known **Vapor Density** Water Vapor None known Relative gravity 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) 1.087 Kg/M3 None known **Water Solubility** Complete None known n-Octanol/

Water Partition coefficient No data available None known Pour point No data available None known **Decomposition temperature** No data available None known

Other information

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





Section 10: STABILITY AND REACTIVITY

Stability Stable

Polymerization Will not occur

Conditions to avoid Heating above 266°F

Materials to avoid Sodium Nitrite, Phosphorus Pentachloride, and nitrosylperclorate. May React with

nitrates, alkalies, oxidizing agents, hypochlorite, aldehydes, inorganic acids, alefins and

polymerizable esters. Corrosive to copper and copper alloys.

Hazardous Decomposition Products Above 266°f decomposition starts with formation of ammonia, cyanuric acid, cyanic acid,

carbon dioxide, biuret, and nitrogen oxides.

Section 11: TOXICOLOGICAL NFORMATION

Urea: No data available

Oral: Rat LD50 = 14,300-15,000 mg/kg

Dermal: No data available

Inhalation: No data available

Section 12: ECOLOGICAL NFORMATION

Ecological testing has not been conducted on this product

Section 13: DISPOSAL INFORMATION

Disposal methods: Dispose of contaminated product and materials used in cleaning up spills or leaks in a manner

approved for this material. Consult appropriate federal, state, and local regulatory agencies to

ascertain proper disposal procedures.

Note: Empty containers can have residues, gases, and mists and are subject to proper waste disposal as

above.

Section 14: TRANSPORTATION INFORMATION

Transport CanadaNot regulatedTDGNot regulatedDOTNot regulated





Section 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 LayerNot applicableThe Stockholm Convention on Persistent Organic PollutantsNot applicableThe Rotterdam ConventionNot applicable

Internal Inventories

TSCA Complies
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

Section 16: OTHER INFORMATION

NFPA **Health hazards** 0 **Flammability** 1 Instability 0 Physical and chemical properties HMIS **Health hazards** n **Flammability** 1 Physical hazards Personal protection Χ

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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Revision NoteNo information available.

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

2. Data for Regulatory Rules

Region	Template name	Revision Note
Canada	HGHS	2.0

GHS Product Information

Physical state Liquid

Boiling point °C 106 (minimum)

Component Information

Canada

GHS Classification

Hazard Statement None needed according to classification criteria.

Signal word Irritant

Precautionary Statements - Disposal Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable







