

Safety Data Sheet



Premium Lubricant Products, Optimal Lubricant Performance, Professional Staff & Service

1. Identification

Product identifier

HB-199AR 50/50 GREEN AF AUTO

Manufacturer/Importer/Supplier/Distributor information

Company name & Address

H&B Industries, Inc. PO Box 29838, Dallas, Texas 75229, tel. 214-350-1984

Emergency Contact: INFOTRAC, +1 352-323-3500 (international), 800-535-5053 (toll free US and Canada).

Telephone 214-350-1984

Website www.hbind.com

Email: info@hbind.com

Emergency Contact: INFOTRAC, +1 352-323-3500 (international), 800-535-5053 (toll free US and Canada).

2. Hazard(s) identification

Physical hazards Health hazards

OSHA defined hazards Label elements

Not classified. Acute toxicity, oral

Serious eye damage/eye irritation Reproductive toxicity (the unborn child)

Specific target organ toxicity, repeated exposure (oral)

Not classified.

Category 4

Category 2

Category 2

Category 2 (kidneys)

Signal word Warning

Hazard statement: Harmful if swallowed. Causes serious eye irritation. Suspected of damaging the unborn child. May cause damage to organs (kidneys) through prolonged or repeated exposure by ingestion.

Precautionary statement

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist/vapors. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.

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Response If exposed or concerned: Get medical advice/attention. If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Storage Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information: None.

3. Composition/information on ingredients

Mixtures:

Chemical name	CAS number	%
Ethylene glycol	107-21-1	> 45
Diethylene glycol	111-46-6	< 5
Hexanoic Acid, 2-ethyl-potassium salt	3164-85-0	< 3

Composition comments: none

4. First-aid measures

Inhalation Skin contact Eye contact

Ingestion

Most important symptoms/effects, acute and delayed

Indication of immediate medical attention and special treatment needed

General information

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

Fire fighting equipment/instructions

Specific methods General fire hazards

The exact percentage (concentration) of composition has been withheld as a trade secret. All concentrations are in percent by weight.

Move to fresh air. Call a physician if symptoms develop or persist.

Wash off with soap and water. Get medical attention if irritation develops and persists.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. Get medical attention if irritation develops and persists.

Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.

Convulsions. Dizziness. Nausea, vomiting. Abdominal pain. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Prolonged exposure may cause chronic effects.

Ingestion of ethylene glycol may result in nausea, vomiting, abdominal cramps, blindness, liver damage, irritation, reproductive effects, nerve damage, convulsions, edema of the lung, cardiopulmonary effects (metabolic acidosis), pneumonia and kidney failure which could result in death. The single lethal dose for humans is about 100 ml.

Inhalation of high levels of vapors or mists for prolonged periods of time may also result in toxic effects.

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation.

Symptoms may be delayed.

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

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Water fog. Alcohol resistant foam. Powder. Carbon dioxide (CO₂). Do not use water jet as an extinguisher, as this will spread the fire.

During fire, hazardous combustion products are released that may include: Carbon oxides. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Cool containers exposed to flames with water until well after the fire is out.

Use standard firefighting procedures and consider the hazards of other involved materials. Will burn if involved in a fire.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Methods and materials for containment and cleaning up

Environmental precautions

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist/vapors. Avoid contact with eyes. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material. Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Conditions for safe storage, including any incompatibilities

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist/vapors. Do not taste or swallow. Avoid contact with eyes. Avoid prolonged exposure. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

Store locked up. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. ACGIH Threshold Limit Values (TLV) Components Type Value

Form

Ethylene glycol (CAS 107-21-1)

STEL 10 mg/m³

Aerosol, inhalable.

50 ppm Vapor fraction

TWA 25 ppm Vapor fraction

US. OARS. Workplace Environmental Exposure Level (WEEL) Guide Components Type Value

Diethylene glycol (CAS 111-46-6)

Biological limit values

Appropriate engineering controls

TWA 10 mg/m³

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No biological exposure limits noted for the ingredient(s).

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide easy access to water supply and eye wash facilities.

Individual protection measures, such as personal protective equipment

Eye/face protection, Skin protection, Hand protection

Skin protection

Other: Respiratory protection

Thermal hazards

General hygiene considerations

Wear approved chemical safety goggles.

Wear appropriate chemical resistant gloves. Neoprene, butyl rubber, nitrile or Viton® gloves are recommended. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. Other suitable gloves can be recommended by the glove supplier.

Wear suitable protective clothing. Use of an impervious apron is recommended.

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Chemical respirator with organic vapor cartridge and full facepiece. Follow OSHA respirator regulations (29CFR 1910.134) and use NIOSH/MSHA approved respirators. Appropriate respirator selection should be made by a qualified professional.

Wear appropriate thermal protective clothing, when necessary.

Observe any medical surveillance requirements. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state form: Liquid

Color: Green

Odor: Mild

Odor threshold: Not available.

pH 8 - 9

Melting point/freezing point: Not available.

Initial boiling point and boiling range

265 °F (129.44 °C) (50% water using 15lb radiator cap)

Flash point > 200 °F (> 93.33 °C) Pensky-Martens Closed Cup

Evaporation rate: Not available.

Flammability (solid, gas): Not applicable.

Upper/lower flammability or explosive limits Explosive limit - lower (%): Not available.

Explosive limit - upper (%): Not available.

Vapor pressure Not available.

Vapor density > 1 (Air=1)

Relative density 1.06 - 1.09 (Water=1) (68 °F (20 °C))

Solubility(ies)

Solubility (water) Completely soluble in water.

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Partition coefficient (n-octanol/water)
Not applicable for mixtures.

Auto-ignition temperature: Not available.
Decomposition temperature: Not available.
Viscosity: Not available.
Other information: Density 8.9 lb/gal

Explosive properties Oxidizing properties

10. Stability and reactivity

Reactivity Chemical stability
Possibility of hazardous reactions
Conditions to avoid Incompatible materials
Hazardous decomposition products

Not explosive.
Not oxidizing.

The product is stable and non-reactive under normal conditions of use, storage and transport. Material is stable under normal conditions.

No dangerous reaction known under conditions of normal use.

Avoid temperatures exceeding the flash point. Contact with incompatible materials. Strong oxidizing agents. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

11. Toxicological information

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contact Prolonged skin contact may cause temporary irritation.

Eye contact Causes serious eye irritation.

Ingestion Harmful if swallowed. May cause damage to organs through prolonged or repeated exposure by ingestion.

Symptoms related to the physical, chemical and toxicological characteristics:

Convulsions. Dizziness. Nausea, vomiting. Abdominal pain. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Ingestion of ethylene glycol may result in nausea, vomiting, abdominal cramps, blindness, liver damage, irritation, reproductive effects, nerve damage, convulsions, edema of the lung, cardiopulmonary effects (metabolic acidosis), pneumonia and kidney failure which could result in death. The single lethal dose for humans is about 100 ml.

Inhalation of high levels of vapors or mists for prolonged periods of time may also result in toxic effects.

Information on toxicological effects:

Acute toxicity: Harmful if swallowed.

Components Species

Diethylene glycol (CAS 111-46-6)

Acute Dermal

Test Results:

LD50 Rabbit 11890 mg/kg Ethylene glycol (CAS 107-21-1)

Acute

Dermal

LD50 Rabbit 9530 mg/kg

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Skin corrosion/irritation
Serious eye damage/eye irritation
Respiratory or skin sensitization
Prolonged skin contact may cause temporary irritation. Causes serious eye irritation.
Respiratory sensitization Not a respiratory sensitizer.
Skin sensitization Germ cell mutagenicity

This product is not expected to cause skin sensitization.
No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity Not classifiable as to carcinogenicity to humans.
IARC Monographs. Overall Evaluation of Carcinogenicity
Not listed.
NTP Report on Carcinogens
Not listed.
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)
Not listed.

Reproductive toxicity
Specific target organ toxicity - single exposure
Specific target organ toxicity - repeated exposure

Suspected of damaging fertility or the unborn child. Not classified.

May cause damage to organs (kidneys) through prolonged or repeated exposure by ingestion.

Aspiration hazard Not an aspiration hazard.
Chronic effects Prolonged inhalation may be harmful. May cause damage to organs through prolonged or repeated exposure.
Further information Symptoms may be delayed.

12. Ecological information

Ecotoxicity
The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components
Ethylene glycol (CAS 107-21-1)
Aquatic
Acute
Species
Test Results
Crustacea Fish
Chronic
Crustacea Fish
EC50 LC50
NOEC NOEC
Ceriodaphnia dubia Oncorhynchus mykiss
Ceriodaphnia dubia Oncorhynchus mykiss
10000 mg/l, 48 Hours
24591 mg/l, 96 Hours
3469 mg/l, 7 days
14692 mg/l, 12 days

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Persistence and degradability Bioaccumulative potential

No data is available on the degradability of this product.

Partition coefficient n-octanol / water (log Kow)

Diethylene glycol (CAS 111-46-6) -1.47

Ethylene glycol (CAS 107-21-1) -1.36

Mobility in soil: Expected to be mobile in soil

The product is soluble in water.

Other adverse effects This product contains one or more substances identified as hazardous air pollutants (HAPs) per the US Federal Clean Air Act (see section 15).

13. Disposal considerations

Disposal instructions

Local disposal regulations Hazardous waste code

Waste from residues / unused products

Contaminated packaging

14. Transport information

DOT

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

Dispose in accordance with all applicable regulations.

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Not regulated as dangerous goods.

DOT BULK

UN number

UN proper shipping name Transport hazard class(es)

Class Subsidiary risk Label(s)

Packing group Environmental hazards

Marine pollutant

NA3082

Other regulated substances, liquid, n.o.s. (Ethylene glycol RQ = 5000 LBS)

9

- 9

III

No

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions Packaging exceptions Packaging non bulk Packaging bulk

IATA

IB3, T2, TP1 155

203

241

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code General information

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15. Regulatory information

US federal regulations

Not established.

DOT: Not regulated as dangerous goods unless packed in a single container with weight in lbs greater than: 5000/(percentage of Ethylene glycol in the product /100).

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Ethylene glycol (CAS 107-21-1) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Toxic Substances Control Act (TSCA) All components of the mixture on the TSCA 8(b) inventory are designated "active".

Superfund Amendments and Reauthorization Act of 1986 (SARA) SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical

Classified hazard categories

SARA 313 (TRI reporting)

Yes

Acute toxicity (any route of exposure) Serious eye damage or eye irritation Reproductive toxicity

Specific target organ toxicity (single or repeated exposure)

Chemical name

Ethylene glycol

Other federal regulations

CAS number

107-21-1

% by wt.

> 45

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Ethylene glycol (CAS 107-21-1)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA)

US state regulations

Not regulated.

US. Massachusetts RTK - Substance List

Ethylene glycol (CAS 107-21-1)

US. New Jersey Worker and Community Right-to-Know Act

Ethylene glycol (CAS 107-21-1)

US. Pennsylvania Worker and Community Right-to-Know Law

Diethylene glycol (CAS 111-46-6) Ethylene glycol (CAS 107-21-1)

US. Rhode Island RTK

Diethylene glycol (CAS 111-46-6) Ethylene glycol (CAS 107-21-1)

California Proposition 65

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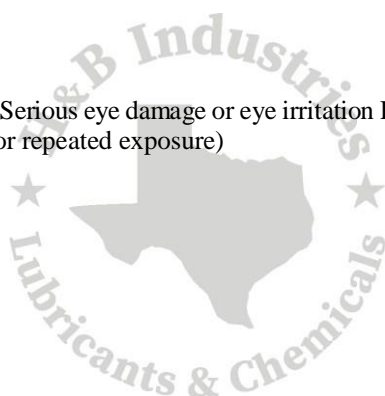
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WARNING:

This product can expose you to Ethylene glycol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

California Proposition 65 - CRT: Listed date/Developmental toxin

Ethylene glycol (CAS 107-21-1) Listed: June 19, 2015

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Ethylene glycol (CAS 107-21-1)

International Inventories

Country(s) or region Inventory name On inventory (yes/no)*

Australia Australian Inventory of Industrial Chemicals (AICIS) Yes

Canada Domestic Substances List (DSL) Yes

Canada Non-Domestic Substances List (NDSL) No

China Inventory of Existing Chemical Substances in China (IECSC) Yes

Europe European Inventory of Existing Commercial Chemical Substances (EINECS) Yes

Europe European List of Notified Chemical Substances (ELINCS) No

Japan Inventory of Existing and New Chemical Substances (ENCS) Yes

Korea Existing Chemicals List (ECL) Yes

New Zealand New Zealand Inventory Yes

Philippines Philippine Inventory of Chemicals and Chemical Substances (PICCS) Yes

Taiwan Taiwan Chemical Substance Inventory (TCSI) Yes

Country(s) or region Inventory name On inventory (yes/no)*

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date April 21, 2016

Revision date June 15, 2023

Version # 03

HMIS® ratings

NFPA ratings

Health: 2* Flammability: 1

Physical hazard: 0

Disclaimer:

While H&B Industries, Inc. believes this data is accurate as of revision date, we make no warranty with respect to the data and we expressly disclaim all liability for reliance there on. The data is offered solely for your information, investigation, and verification.

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