CCI MANUFACTURING IL CORPORATION
15550 Canal Bank Rd., P.O. Box 339, Lemont, IL 60439 U.S.A.
TEL +1-630-739-0606 FAX +1-630-739-1116

Safety Data Sheet

SDS No. 10352 Revision No. 03 Item No. LD2523/50201
Issue Date: September 15, 2015 Revision Date: July 9, 2018

Hino Blue 50/50 Prediluted Coolant/Antifreeze

SECTION 1: IDENTIFICATION

1.1 Product identifier

Product : Hino Blue 50/50 Prediluted Coolant/Antifreeze
Synonyms : None
Product Part Number: HB-EXLLC-01

1.2 Relevant identified uses of the substance or mixture and advised against

Antifreeze/Coolant

1.3 Detail of the supplier of the safety data sheet

Manufacturer Name CCI MANUFACTURING IL CORPORATION
Address 15550 Canal Bank Road, Lemont, IL 60439
Telephone (630) 739-0606

1.4 Emergency telephone number

INFOTRAC: 1-800-535-5053 - DOMESTIC
1-352-323-3500 - INTERNATIONAL

SECTION 2: HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

Health Hazard Classification:

Hazard	Category	Code
Acute Toxicity (Oral)	5	H303
Specific Target Organ Toxicity (Repeated/Prolonged Exposure)	2	H373

Physical Hazard Classification:

Not Classified

2.2 Label elements

Hazard Pictograms

GHS08

Signal word Warning

Hazard statements

H303 May be harmful if swallowed
H373 May cause damage to organs (kidneys) through prolonged or repeated exposure

Precautionary statements

Prevention

P260 Do not breathe mist/vapors/spray.

Response

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

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P314 Get medical advice/attention if you feel unwell.

Storage

None

Disposal

P501 Dispose of contents/container in accordance with applicable federal, state and local regulations.

2.3 Other hazards

Data not available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Components	CAS No.	Nominal %	Hazard Code
Ethylene Glycol	107-21-1	40 - 50 %	H302, H373
Diethylene Glycol	111-46-6	Less than 3%	H302, H373, H370
Hydrated inorganic acid, organic acid salts	Proprietary	Less than 5%	None
Water	7732-18-5	45 - 55 %	None

Proprietary items on this SDS are designated as trade secrets. Requests for disclosure of trade secret information will be made in accordance with the provisions contained in OSHA 29 CFR 1910.1200(i).

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Swallowing: If victim is conscious and able to swallow, quickly have victim drink water or milk to dilute. Do NOT give sodium bicarbonate, fruit juices or vinegar. NEVER give anything by mouth if victim is unconscious or having convulsions. Induce vomiting only if advised by physician or Poison Control Center. CALL PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY.

Skin Contact: Immediately flush skin with plenty of water while removing contaminated clothing.

Eye Contact: Immediately flush eyes with plenty of cool water for at least 15 minutes. Do NOT permit victim to rub eyes. GET MEDICAL ATTENTION IMMEDIATELY.

Inhalation: Immediately remove victim to fresh air. If victim has stopped breathing give artificial respiration, preferably mouth-to-mouth. GET MEDICAL ATTENTION IMMEDIATELY.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

SECTION 5 : FIREFIGHTING MEASURES

5.1 Extinguishing media

Individuals should perform only those firefighting procedures for which they have been trained. Use water spray, dry chemical, foam or carbon dioxide. Use water to keep fire-exposed containers cool. If a spill or leak has not ignited, use water spray to disperse the vapors. Water spray may be used to flush spills away from fire and diluted spills to noncombustible proportions(see warning on water spray on hot glycol below.)

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5.2 Special hazards arising from the substance or mixture

Data not available

5.3 Advice for firefighters

To prevent possible storage container rupture, do not permit to freeze. Incompatible with strong acids, oxidizers, bases and chromium trioxide, potassium permanganate, and sodium peroxide.

Water spray may cause foaming of hot glycol so indirect application of water spray or use of other extinguishing media should be used on hot glycol.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For personal protection, see section 8. In case of spills, beware of slippery floors and surfaces.

6.2 Environmental precautions

The product should not be dumped in nature but collected and delivered according to agreement with the local authorities.

6.3 Method and material for containment cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions and safe handling

- Do not expose children and pets to this material.
- After handling product, wash thoroughly with soap and water before drinking, eating, or smoking.
- Keep away from open flames.

7.2 Conditions for safe storage, including any incompatibilities

- To prevent possible storage container rupture, do not permit to freeze. Incompatible with strong acids, oxidizers, bases and chromium trioxide, potassium permanganate, and sodium peroxide.

7.3 Specific end use(s)

The identified uses for this product are detailed in section 1.2.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Component	CAS No.	Source	Exposure Limit	Notes
Ethylene glycol	107-21-1	US OSHA	None	None
		US ACGIH	100 mg/m3 TLV	Ceiling Limit for Aerosols Only; A4 - Not classifiable as a human carcinogen
Diethylene Glycol	111-46-6	US OSHA	None	None
		US ACGIH	None	None
		US AIHA (WEEL)	10 mg/m^3	TWA

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8.2 Exposure controls

Control Measures : Handle in the presence of adequate ventilation. Engineering controls should be used whenever feasible to maintain concentrations below acceptable exposure criteria, including enclosures and local exhaust ventilation.

Respiratory Protection : Where exposure is likely to exceed acceptable criteria and engineering controls are not feasible, use NIOSH/MSHA approved respiratory protection equipment. Respirators should be selected based on the form and concentration of contaminants in air and in accordance with OSHA (29 CFR 1910.134)

Protective Clothing : Wear gloves and protective clothing which are impervious to the product for the duration of exposure if there is potential for skin contact.

Eye Protection : Wear safety glasses meeting the specifications of ANSI Standard Z87.1 where no contact with the eye is anticipated. Chemical safety goggles meeting the specification of ANSI Standard Z87.1 should be worn whenever there is the possibility of splashing or other contact with the eyes.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information of basic physical and chemical properties

Item	Value/Range
Appearance	Clear, slightly viscous, blue dyed liquid
Odor	No characteristic odor
Odor threshold	Data not available
pH	7.8 (original)
Freezing point	Lower than -36^{o}C (-34°F)
Initial boiling point and boiling range	Higher than 108^{o}C (226°F)
Flash point	None
Evaporation rate	Data not available
Flammability(Solid, gas)	Data not available
Upper/Lower flammability or explosive limits	Data not available
Vapor pressure	Data not available
Vapor Density (Air = 1)	Data not available
Density (20°C)	1.08 g/cm^{3}
Solubility in Water	Infinite miscibility
Partition coefficient n-octanol/water	Data not available
Auto ignition temperature	Data not available
Decomposition temperature	Data not available
Viscosity	Data not available

9.2 Other information

None

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SECTION 10 : STABILITY AND REACTIVITY

10.1 Reactivity

Hazardous Polymerization : Not likely to occur

Conditions and Materials to Avoid : Avoid concentrated strong acids, oxidizing agents and bases. Do not expose to open flame.

10.2 Chemical stability

Generally stable

10.3 Possibility of hazardous reactions

Data not available

10.4 Conditions to avoid

Avoid heat, flames and other sources of ignition.

10.5 Incompatible materials

Data not available

10.6 Hazardous decomposition products

Hazardous Decomposition Products : If pyrolyzed, thermal decomposition products of residue may include C, CO, CO2, H2O, NH3, organic vapors and nitrogen-containing.

SECTION 11:TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Inhalation: Breathing excessive levels of the vapor or mist can irritate the respiratory tract. Excessive vapor concentrations of the major component (ethylene glycol), might be generated during heating of this material, have occasionally been reported to cause adverse effects on the blood-forming system and the nervous system.

Ingestion: The acute oral toxicities of the main components of this mixture are as follows:

Ethylene Glycol:

The lowest dose reported to produce death in humans was estimated to be 1,560 mg/kg body weight; for a person weighing 150 pounds, this would be equivalent to drinking about three fluid ounces of pure ethylene glycol in a short period of time.

Acute oral LD50's = 4,700 mg/kg (rat)
5,500 mg/kg (mouse)
1,600 mg/kg (human)

Diethylene Glycol:

Acute oral LD50's = 12,600 mg/kg (rat)
23,700 mg/kg (mouse)

Eye Contact: Based on the pH and irritation potential of this mixture's constituents, the mist or liquid can be expected to cause mild to moderate irritation or inflammation of the eyes

Skin Contact: The acute dermal LD50 of the major component (ethylene glycol) of this product is 10,600mg/kg(rabbits). Based on the pH and the irritation potential of this mixture's constituents, the mist or liquid can be expected to cause mild to moderate irritation of the skin.

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Chronic Effects: No chronic or delayed effects have been identified.
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Ecological information of the product : Data not available
Ecological information of the main ingredient of the product:

Ethylene Glycol :
LC50 - Oncorhynchus mykiss (rainbow trout) - 18,500 mg/l - 96 h

Diethylene Glycol :
LC50 - Pimephales promelas (fathead minnow) - 75,200 mg/l - 96 h

12.2 Persistence and degradability

Degradation half life: Readily biodegradable

12.3 Bioaccumulative potential

Bioaccumulative potential: Bioconcentration potential is low.
Comments to bioaccumulation Log Pow: -0,30

12.4 Mobility in soil

Mobility: The product is miscible with water. May spread in water systems.

12.5 Results of PBT and vPvB assessment

PBT assessment results: This substance is not classified as PBT or vPvB.

12.6 Other adverse effects

Other adverse effects / Remarks: None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal : Disposal should be made in accordance with applicable federal, state and local regulations. All recovered material should be packaged, labeled, transported, and disposed of or reclaimed in conformance with good engineering practices. Avoid land filling of liquids. Reclaim where possible.

SECTION 14 : TRANSPORT INFORMATION

14.1 UN number

UN3082

14.2 UN proper shipping name

Environmentally Hazardous Substance Liquid n.o.s. (ethylene glycol), 9, UN3082, III

14.3 Transport hazard class(es)

DOT Classification (Bulk) :	Class 9 miscellaneous
DOT Classification (Non-bulk) :	Not regulated
IATA (Non-bulk) :	Not regulated
IMDG Code (Non-bulk) :	Not regulated

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14.4 Packaging group
III

14.5 Environmental hazards
Marine pollutant: No
Poison Inhalation Hazard: No

14.6 Special precautions for user
Data not available

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Data not available

SECTION 15 : REGULATORY INFORMATION

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

Toxic Substance Control Act

This product is a mixture; therefore, it is not listed in the TSCA Inventory of Chemical Substances. All of the components of the mixture are listed in or exempt from the TSCA Inventory of Chemical Substances.

SARA Hazard Categories (as defined in Section 311/312)

Health Immediate (Acute) and Delayed (Chronic)

Physical None

The product contains greater than 40% ethylene glycol (CAS# 107-21-1) which is subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

California Proposition 65

WARNING: This product can expose you to chemicals such as 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/product.

Bittering Agent

This product contains bittering agent.

SECTION 16 : OTHER INFORMATION

NFPA Rating: Health (1) Fire (0) Reactivity (0)

Preparation information: Date of revision: July 9, 2018

The information presented herein is believed to be factual as it has been derived from the works and opinions of people believed to be qualified experts; however, nothing contained in this information is to be taken as a warranty or representation for which CCI MANUFACTURING IL CORPORATION bears legal responsibility. The user should review any recommendation in the specific context of intended use to determine whether they are appropriate.