

BLUE RIDGE CONVENTIONAL HD COOLANT/ANTIFREEZE

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Blue Ridge Coolant/Antifreeze Conventional HD SYNONYMS: Ethylene Glycol (EG), Monoethylene Glycol (MEG)

PRODUCT CODES: BRCONV

MANUFACTURER: Holston Environmental Services, Inc.

ADDRESS: 1000 Business Park Drive Chattanooga, TN 37419

 EMERGENCY PHONE:
 (800) 222-4530

 OTHER CALLS:
 (423) 899-7300

 FAX PHONE:
 (423) 899-7373

CHEMICAL NAME: 1,2-Ethanediol

CHEMICAL FAMILY: Glycols

PRODUCT USE: Automotive Engine Cooant/Antifreeze, heat transfer fluid.

SECTION 1 NOTES: Do not use in the manufacture of preparation of foods or pharmaceuticals. Do not use in

aircraft de-icing applications. Glycols are not intended for the production of theatrical or

artificial smoke.

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS NO.	% VOL
Ethylene Glycol	107-21-1	25 -100
Sodium Nitrite	7632-00-0	1 -10
Disodium tetraborate, anhydrous	1330-43-4	1 - 5
Disodium trioxosilicate	6834-92-0	1 - 5
Sodium nitrate	7631-99-4	1 - 5
Sodium mercaptobenzothiazole	2492-26-4	1 – 5
Sodium tolyltriazole	64665-57-2	1 – 5

SECTION 2 NOTES: There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: WARNING! IRRITATING TO SKIN, EYE AND RESPIRATORY TRACT. DO NOT INGEST.

HARMFUL IF INHALED, ABSORBED THROUGH SKIN OR SWALLOWED. POSSIBLE BIRTH DEFECT HAZARD – CONTAINS MATERIAL THAT MAY CAUSE BIRTH

DEFECTS BASED ON ANIMAL DATA.

ROUTES OF ENTRY: Dermal Contact. Eye Contact. Inhalation. Ingestion.

POTENTIAL ACUTE HEALTH EFFECTS

EYES: May cause eye irritation.

SKIN: May cause skin irritation.

INGESTION: May be harmful if swallowed.

INHALATION: May cause respiratory tract irritation.



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CHRONIC HEALTH HAZARDS: No known significant effects or critical hazards. May cause adverse reproductive effects

based on animal data. Contains material that may be harmful to the developing fetus based on animal data. Overexposure may result in Ethylene Glycol poisoning. Contact your local Poison Control Center if you are exposed to significant levels of Ethylene Glycol or ingest

Ethylene Glycol in any quantity.

MEDICAL CONDITIONS GENERALL AGGRAVATED BY EXPOSURE:

Neurological and cardiovascular disorders, diseases of the skin, eyes or respiratory tract, preexisting liver and kidney disorders.

SECTION 4: FIRST AID MEASURES

EYES: Check for and remove any contact lenses. Immediately flush eyes thoroughly with running water for several

minutes. Hold eyelids open during flushing. If irritation persists, repeat flushing. Obtain medical attention.

SKIN: Start flushing with water while removing contaminated clothing. Wash affected areas thoroughly with soap and

water. If irritation, redness or a burning sensation develops and persists, obtain medical attention.

INGESTION: Do not attempt to give anything by mouth to an unconscious person. IMMEDIATELY contact local Poison

Control Center. Vomiting should only be induced under the direction of a physician or Poison Control Center.

Seek medical attention.

INHALATION: If inhaled, move to fresh air. If not breathing, give artificial respiration. If respiratory problems persist, obtain

medical attention IMMEDIATELY.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:

In case of inhalation of decomposition products in a fire, symptons may be delayed. The exposed person needs

to be kept under surveillance for 48 hours.

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABILITY OF THE PRODUCT: Not flammable. However, this product contains a strong oxidizer, sodium nitrite,

which enhances the burning rate of other materials.

EXTINGUISHING MEDIA: Use carbon dioxide or dry chemical media for small fires. If only water is

available, use in the form of a fog. Use media appropriate for surrounding fire

and/or materials.

SPECIAL FIRE FIGHTING PROCEDURES: Fire exposed containers should be kept cool by spraying with water to reduce

pressure. No part of a container should be exposed to temperature above 50° C.

Used self contained breathing apparatus and protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Not normally a fire hazard. Water content of product prevents ignition. Do not

direct a solid stream of foam into hot, burning pools. This may cause splattering and increase fire intensity. Closed containers exposed to heat may explode. Spilled material may cause floors and and contact surfaces to become slippery.

HAZARDOUS DECOMPOSITION PRODUCTS: Decomposition products may include the following

Oxides of Carbon, oxides of nitrogen, oxides of sulfur, metal oxide/oxides

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: No action shall be taken involving any personal risk or without suitable training.

Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation

is inadequate. Put on appropriate personal protective equipment.



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Environmental Precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways,

drains and sewers. Inform the relevant authorities if the spill is reportable or could

adversely affect the environment.

Containment and Clean Up: Recoverspilled material on non-combustible absorbents, such as sand or

vermiculite and place in covered containers for disposal. Contain discharge by constructing dykes or applying inert absorbent. Dispose of via licensed waste

disposal contractor.

SECTION 7: HANDLING AND STORAGE

OTHER PRECAUTIONS:

HANDLING AND STORAGE: Use appropriate personal protective equipment. Eating, drinking and smoking

should be prohibited in areas where material is handled, stored and processed. Workers should wash hands and face before eating, drinking or smoking. Do not get in eyes or on skin or clothing. Do not ingest. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well ventilated area away from incompatible materials. Do not store in uplabeled containers.

away from incompatible materials. Do not store in unlabeled containers.

Store in accordance with local regulations. Use appropriate containment to avoid

environmental contamination.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Recommendations in this section indicate the type of equipment, which will provide protection against overexposure to this product. Conditions of use, adequacy of engineering or other control measures, and actual exposures will dictate the need for specific protective equipment.

ENGINEERING CONTROLS: No special ventilating requirements. Good general ventilation should be sufficient

to control worker exposure to airborne contaminants.

RESPIRATORY PROTECTION: No specific guidelines available. A NIOSH/MSHA approved air purifying

respirator equipeed with organic vapour cartridges for contcentrations up to 1000 ppm. An air supplied respirator if concentrations are higher or unknown. If while wearing a full facepiece respirator, you experience eye irritation, leave the area immediately. Check to make sure the respirator to face seal is still good. If it is, replace the filter, cartridge or canister. If the seal is no longer good, you may

need a new respirator.

EYE PROTECTION: Use full face-shield or chemical safety goggles when there is potential for

contact. Contact lenses should not be worn when working with this material.

SKIN PROTECTION: Gloves and protective clothing made from PVC, butyl rubber, natural rubber,

viton, neoprene or nitrile rubber should be impervious under conditions of use. Prior to use, user should confirm impermeability. Discard contaminated gloves.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Wear an impermeable apron and boots. Locate safety shower and

eyewash station close to chemical handling area. Take all precautions to avoid

personal contact.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Green, Orange, Red

ODOR: Mild

PHYSICAL STATE: Liquid

pH AS SUPPLIED: 9



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BOILING POINT: 240F

FREEZING POINT: -40F

SPECIFIC GRAVITY (H2O = 1): 1.15

EVAPORATION RATE: Not Available

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (con't)

SOLUBILITY IN WATER: 100% soluble in water

PERCENT SOLIDS BY WEIGHT: None

PERCENT VOLATILE:

BY WT/ BY VOL @ Not available

F: C:

VOLATILE ORGANIC COMPOUNDS (VOC): Not available

WITH WATER: LBS/GAL WITHOUT WATER: LBS/GAL

VISCOSITY: 21 CpS (20°c)

SECTION 10: STABILITY AND REACTIVITY

STABILITY: This product is stable.

CONDITIONS TO AVOID (STABILITY): High Temperature, sparks, open flames and all other sources of ignition.

Temperatures above 165°C)

INCOMPATIBILITY (MATERIAL TO AVOID): Strong oxidizers. Strong Acids, Strong Bases.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Thermal decomposition products are toxix and may include oxides of

carbon.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID (POLYMERIZATION): N/A

SECTION 10 NOTES: Not normally a fire hazard. Water content of product prevents ignition.

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: The ingredient(s) of this product are not classed as carcinogenic by IARC,

OSHA or NTP. Disodium tetraborate, anhydrous is classified A4 by ACGIH. Contains chemical (disodium tetraborate, anhydrous) that may cause male

reproductive toxicity and developmental toxicity.

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: May be harmful to aquatic life. Can be dangerous if allowed to enter drinking

water intakes. Do not contaminate domestic or irrigation water supplies, lakes, streams, ponds or rivers. Biocentration potential is low. Biodegradation under aerobic static laboratory conditions is high. Biodegradation may occur under both



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aerobic and anaerobic conditions. Degradation is expected in the atmospheric environment within days to weeks.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of used antifreeze according to federal, state and local regulations. Do

not dispose in storm sewers, drains or onto the ground. Contact a licensed environmental waste disposal company to properly manage this product.

RCRA HAZARD CLASS: None

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME:
HAZARD CLASS:
ID NUMBER:
PACKING GROUP:
LABEL STATEMENT:
Not Regulated
Not Regulated
Not Regulated
Not Regulated

WATER TRANSPORTATION

PROPER SHIPPING NAME:

HAZARD CLASS:

ID NUMBER:

PACKING GROUP:

LABEL STATEMENTS:

Non Regulated
Non Regulated
Non Regulated
Non Regulated

AIR TRANSPORTATION

PROPER SHIPPING NAME:

HAZARD CLASS:

Non Regulated

OTHER AGENCIES: Non Regulated

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): All constituents in this product are included on the TSCA inventory.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): No products found.

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT): No products founds.

311/312 HAZARD CATEGORIES: No products were found.
313 REPORTABLE INGREDIENTS: No products were found.



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STATE REGULATIONS: California Prop. 65: This product contains less than 0.1% of a chemical known

to the State of California to cause cance. No products were found.

California Prop. 65: This product contains less than 1% of a chemical known to

the State of California to cause cance. No products were found.

INTERNATIONAL REGULATIONS: The following components of this product appear on the European Inventory of

Existing Commercial Chemical Substances: Ethylene Glycol.

SECTION 16: OTHER INFORMATION

OTHER INFORMATION: Label Requirements: IRRITATING TO SKIN, EY AND RESPIRATORY TRACT.

HAZARDOUS LABELING: NFPA: 1, HEALTH: 1, FIRE: 0, REACTIVITY: 0

PREPARATION INFORMATION: July 1, 2013

DISCLAIMER: The information contained herein is offered only as a guide to the handling of this specific material and has been prepared in good faith by technically knowledgeable personnel. It is not intended to be al-inclusive and the manner and conditions of use and handling may involveother and additional considerations. No warranty of any kind is given or implied and Holston Environmental Services, Inc. will not be liable for any damages, losses, injuries or consequential damages which may result from the use or reliance on any information contained herein.