SAFETY DATA SHEET



1. Identification

Product identifier Hybrid ELC Coolant 50/50 Premix

Other means of identification None. Recommended use Coolant Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Company name Heritage-Crystal Clean, LLC 2175 Point Boulevard Suite 375 **Address**

Elgin, IL 60123-9211

Telephone Technical Questions 877-938-7948

Website www.crystal-clean.com E-mail cc ehs@crystal-clean.com

Emergency phone number Chemtrec 800-424-9300

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Acute toxicity, oral Category 4

> Serious eye damage/eye irritation Category 2A Reproductive toxicity Category 2

Specific target organ toxicity, repeated Category 2 (Kidney)

exposure

OSHA defined hazards Not classified.

Label elements



Signal word Warning

Hazard statement Harmful if swallowed. Causes serious eye irritation. Suspected of damaging fertility or the unborn

child. May cause damage to organs (Kidney) through prolonged or repeated exposure.

Precautionary statement

Obtain special instructions before use. Do not handle until all safety precautions have been read Prevention

and understood. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face

protection.

If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. If in eyes: Rinse Response

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. If exposed or concerned:

Get medical advice/attention.

Store locked up. Store away from incompatible materials. Storage

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

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

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Chemical name	CAS number	%	
Ethylene glycol	107-21-1	> 45	
Diethylene glycol	111-46-6	< 5	
Benzoic acid	65-85-0	< 2	

Composition comments

The balance is non-hazardous. All concentrations are in percent by weight unless otherwise indicated.

4. First-aid measures

Inhalation

If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.

Skin contact Eye contact Rinse skin with water/shower. 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.

Ingestion

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.

Most important

symptoms/effects, acute and delayed

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

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General information

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.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions

Move containers from fire area if you can do so without risk.

Specific methods

General fire hazards

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 Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Use water spray to reduce vapors or divert vapor cloud drift. This product is miscible in water. Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. 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 (e.g. cloth, fleece). 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.

Environmental precautions

Hybrid ELC Coolant 50/50 Premix SDS US

7. Handling and storage

Obtain special instructions before use. Do not handle until all safety precautions have been read Precautions for safe handling

> and understood. Provide adequate ventilation. Do not breathe mist or vapor. Avoid contact with eyes. Avoid prolonged exposure. Do not taste or swallow. 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. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store locked up. Store in original 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 Valu	ues	/al	V	mit	ı	blo	iresh	I TI	GIH	C	Α	IS	
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Components	Туре	Value	Form	
Ethylene glycol (CAS 107-21-1)	Ceiling	100 mg/m3	Aerosol.	
US. Workplace Environmental E	xposure Level (WEEL) Guides			
Components	Type	Value		
Diethylene glycol (CAS 111-46-6)	TWA	10 mg/m3		

Biological limit values

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

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) 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 eyewash station.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear a chemical respirator with organic vapor cartridge and full face piece if the atmosphere

cannot be maintained under the exposure limits.

Skin protection

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove **Hand protection**

supplier.

Skin protection

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

Wear a chemical respirator with organic vapor cartridge if the atmosphere cannot be maintained Respiratory protection

under the exposure limits.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

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 Liquid. **Form** Liquid. Color Yellow. Odor Mild.

Odor threshold Not available.

8 - 9 pН

Melting point/freezing point Not available.

Initial boiling point and boiling

> 226 °F (> 107.78 °C) 50% water using 15 lb radiator cap

range

> 200.0 °F (> 93.3 °C) Pensky-Martens Closed Cup Flash point

Not available. **Evaporation rate** Flammability (solid, gas) Not applicable.

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931557 Version #: 02 Revision date: 06-July-2017 Issue date: 04-December-2015 Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

(%)

Not available.

Not available. Vapor pressure Not available. Vapor density 1.06 - 1.09 at 68°F

Relative density

Solubility(ies)

Solubility (water) Completely Soluble

Partition coefficient

(n-octanol/water)

Not available.

Not available. **Auto-ignition temperature Decomposition temperature** Not available. Not available. Viscosity

Other information

Bulk density 8.9 lbs/gal Not explosive. **Explosive properties** Oxidizing properties Not oxidizing.

10. Stability and reactivity

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

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

Carbon oxides.

11. Toxicological information

Information on likely routes of exposure

Inhalation May cause damage to organs through prolonged or repeated exposure by inhalation. Prolonged

inhalation may be harmful.

Skin contact No adverse effects due to skin contact are expected.

Eye contact Causes serious eye irritation.

Ingestion Swallowing large doses causes severe gastrointestinal irritation.

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. Irritation of nose and throat.

Information on toxicological effects

Not expected to be acutely toxic. Acute toxicity

Test Results Components **Species**

Diethylene glycol (CAS 111-46-6)

Acute Dermal

Rabbit LD50 11890 mg/kg

Ethylene glycol (CAS 107-21-1)

Acute

Dermal

LD50 Rabbit 9530 mg/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Hybrid ELC Coolant 50/50 Premix SDS US Serious eye damage/eye

irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

This product is not expected to cause skin sensitization. Skin sensitization

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

NTP Report on Carcinogens

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Reproductive toxicity Suspected of damaging fertility or the unborn child.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

May cause damage to organs (Kidney) through prolonged or repeated exposure.

Aspiration hazard Not classified.

Prolonged inhalation may be harmful. May cause damage to organs through prolonged or **Chronic effects**

repeated exposure.

12. Ecological information

The product is not classified as environmentally hazardous. However, this does not exclude the **Ecotoxicity**

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

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

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Benzoic acid (CAS 65-85-0) 1.87 Ethylene glycol (CAS 107-21-1) -1.36

Mobility in soil Expected to be slightly to moderately mobile in soil.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions 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. Local disposal regulations

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

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).

Empty containers should be taken to an approved waste handling site for recycling or disposal. Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

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14. Transport information

DOT

Not regulated as dangerous goods.

Non Bulk packages (<10000 pounds) are not regulated as dangerous goods.

DOT BULK

BULK

NA3082 **UN** number

UN proper shipping name Other regulated substances, liquid, n.o.s. (Ethylene glycol RQ = 11111 LBS)

Transport hazard class(es)

9 Class Label(s) 9 Ш **Packing group**

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

Special provisions IB3, T2, TP1

155 Packaging exceptions Packaging non bulk 203 Packaging bulk 241

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not available.

Annex II of MARPOL 73/78 and

the IBC Code

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

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

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Benzoic acid (CAS 65-85-0) LISTED Ethylene glycol (CAS 107-21-1) LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes

chemical

SARA 313 (TRI reporting)

Chemical name CAS number % by wt. Ethylene glycol 107-21-1 > 45

Other federal regulations

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

Not regulated.

(SDWA)

US state regulations WARNING: This product contains a chemical known to the State of California to cause birth

defects or other reproductive harm.

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US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Ethylene glycol (CAS 107-21-1)

US. Massachusetts RTK - Substance List

Benzoic acid (CAS 65-85-0) Ethylene glycol (CAS 107-21-1)

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

Benzoic acid (CAS 65-85-0) Ethylene glycol (CAS 107-21-1)

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

Inventory name

Benzoic acid (CAS 65-85-0) 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)

International Inventories

Australia

Canada

Country(s) or region

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	Yes

Australian Inventory of Chemical Substances (AICS)

Domestic Substances List (DSL)

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

(PICCS)

04-December-2015 Issue date **Revision date** 06-July-2017

02 Version #

HMIS® ratings Health: 2*

Flammability: 1 Physical hazard: 0

Disclaimer Heritage-Crystal Clean, LLC cannot anticipate all conditions under which this information and its

product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently

On inventory (yes/no)*

Yes

Yes

Yes

7/7

available.

SDS US

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory *A "Yes" indicates this product complies 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).