# SAFETY DATA SHEET



## 1. Identification

**Product identifier** Conventional Automotive Antifreeze/Coolant

Other means of identification

**Product code** 230 Recommended use Coolant. **Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

Heritage-Crystal Clean, LLC Company name

**Address** 2000 Center Drive, Suite East C300

Hoffman Estates, IL 60192

United States of America

**Telephone** 847-836-5670

Website www.crystal-clean.com cc\_ehs@crystal-clean.com E-mail

**Emergency telephone** CHEMTREC:

> 1-800-424-9300 (Toll Free) +1-703-527-3887 (International)

# 2. Hazard(s) identification

Physical hazards Not classified.

Category 4 **Health hazards** Acute toxicity, oral

Specific target organ toxicity, repeated

exposure (oral)

**OSHA** defined hazards Not classified.

Label elements



Signal word Warning

Harmful if swallowed. May cause damage to organs (kidneys) through prolonged or repeated **Hazard statement** 

exposure by ingestion.

**Precautionary statement** 

Do not breathe mist/vapors. Wash thoroughly after handling. Do not eat, drink or smoke when Prevention

Category 2 (kidneys)

using this product.

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

advice/attention if you feel unwell.

**Storage** Store away from incompatible materials.

**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

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% **Chemical name CAS** number

Diethylene glycol

111-46-6 < 5

Composition comments

The exact percentage (concentration) of composition has been withheld as a trade secret. All concentrations are in percent by weight. Components not listed are either non-hazardous or are below reportable limits.

### 4. First-aid measures

Inhalation

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

Skin contact

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

**Eve contact** 

Rinse with water. 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

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.

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 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

Water fog. Alcohol resistant foam. 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, hazardous combustion products are released that may include: Carbon oxides.

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

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.

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. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist/vapors. 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 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.

# **Environmental precautions**

7. Handling and storage Precautions for safe handling Avoid discharge into drains, water courses or onto the ground.

Do not breathe mist/vapors. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

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### 8. Exposure controls/personal protection

#### Occupational exposure limits

**US. ACGIH Threshold Limit Values** 

Components	Туре	Value	Form
Ethylene glycol (CAS 107-21-1)	STEL	10 mg/m3	Aerosol, inhalable.
		50 ppm	Vapor fraction
	TWA	25 ppm	Vapor fraction
US. Workplace Environmental E	xposure Level (WEEL) Guides		
Components	Туре	Value	
Diethylene glycol (CAS	TWA	10 mg/m3	

Biological limit values

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

Appropriate engineering

111-46-6)

controls

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.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear approved chemical safety goggles.

Skin protection

Hand protection 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.

Skin protection

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

Respiratory protection 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.

**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 Green.
Odor Mild.

Odor threshold Not available.

pH > 10 - < 11

Melting point/freezing point Not available.

Initial boiling point and boiling

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

range

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.

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SDS US

Vapor density > 1 (Air=1)

> 1.06 - < 1.09 (Water=1) Relative density

Solubility(ies)

Completely soluble in water. Solubility (water) Partition coefficient Not applicable for mixtures.

(n-octanol/water)

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

Other information

Density 8.9 lb/gal **Explosive properties** Not explosive. **Oxidizing properties** Not oxidizing.

# 10. Stability and reactivity

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

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

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. Eve contact Direct contact with eyes may cause temporary irritation.

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

ingestion.

Symptoms related to the physical, chemical and toxicological characteristics 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 **Test Results Species** 

Diethylene glycol (CAS 111-46-6)

Acute **Dermal** 

LD50 Rabbit 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. Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

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

927410 Version #: 03 Revision date: 21-October-2022 Issue date: 29-May-2015 Germ cell mutagenicity 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 - Not classified. Not classified.

single exposure

Specific target organ toxicity -

repeated exposure

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

**Aspiration hazard** Not an aspiration hazard.

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

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.

**Species Test Results** Components Ethylene glycol (CAS 107-21-1) Aquatic Acute Crustacea EC50 Ceriodaphnia dubia 10000 mg/l, 48 Hours Fish Oncorhynchus mykiss LC50 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)

Diethylene glycol (CAS 111-46-6) -1.47 Ethylene glycol (CAS 107-21-1) -1.36

Mobility in soil The product is soluble in water. Expected to be mobile in soil.

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** 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).

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

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

14. Transport information

DOT

Not regulated as dangerous goods.

**DOT BULK** 

**BULK** 

UN number NA3082

**UN proper shipping name** Other regulated substances, liquid, n.o.s. (Ethylene glycol RQ = 5000 LBS)

Transport hazard class(es)

Class 9
Subsidiary risk Label(s) 9
Packing group III
Environmental hazards

Wildimental nazards

Marine pollutant No

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

Special provisions IB3, T2, TP1

Packaging exceptions 155
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 established.

Annex II of MARPOL 73/78 and

the IBC Code

General information 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).

15. Regulatory information

US federal regulations 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 Yes

chemical

Classified hazard Acute toxicity (any route of exposure)

categories Specific target organ toxicity (single or repeated exposure)

SARA 313 (TRI reporting)

Chemical nameCAS number% by wt.Ethylene glycol107-21-1> 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)

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### **US** state regulations

#### **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**



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

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

Taiwan Chemical Substance Inventory (TCSI)

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

29-May-2015 Issue date **Revision date** 21-October-2022

Version # 03

NFPA ratings

Taiwan



### **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 available.

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Yes

<sup>\*</sup>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).