

SECTION 1: IDENTIFICATION

PRODUCT: ENVIROGUARD® ANTIFREEZE

OTHER MEANS OF IDENTIFICATION:

ENVIROGUARD 100%
ENVIROGUARED CONCENTRATE

MATERIAL USES: ANTIFREEZE, COOLANT

PRODUCT TYPE: LIQUID, MIXTURE

SUPPLIER DETAILS: **MARCUS PRODUCTS COMPANY**
2954 STATE HWY KK, ROGERSVILLE, MO 65742
1-877-893-8100

EMERGENCY PHONE: 1-800-424-9300 (CHEMTREC)

SECTION 2. HAZARDS IDENTIFICATION

Propylene Glycol antifreeze
Synonyms: 1, 2-Propanediol

GHS-US Labeling
Hazard Pictograms (GHS-US): Not Classified

Signal Word (GHS-US): Not Classified
Hazard Statements (GHS-US)
Physical Hazards: No labeling applicable
Health Hazards: No labeling applicable
Precautionary Statement: No labeling applicable

Other Hazards: No chronic health effects are expected from normal use.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Material</u>	<u>CAS#</u>	<u>Percentage</u>
Propylene Glycol	57-55-6	92%
Corrosion Inhibitor		<10
Water		<4

SECTION 4. FIRST AID MEASURES

Routes of Entry
Inhalation – Primary
Skin/Eyes – Primary
Ingestion – Not likely to occur

CARCINOGENICITY: None Listed
Listed in NTP? No IARC Monographs? No OSHA Regulated? No

Signs & Symptoms of Exposure

Inhalation: Drunkenness, nausea, vomiting, visual impairment, rapid breathing, increased heart rate and decreased urine volume.

Eyes: Irritation/Tissue destruction develops immediately upon contact.

Medical conditions generally aggravated by exposure are breathing disorders, dermatitis and eye, kidney, liver disorders.

First Aid Procedures:	
Eye Contact:	Flush with water for 15 minutes
Skin Contact:	wash skin with soap and water. Get medical attention if symptoms develop and persist
Ingestion:	Do not induce vomiting. Drink large amounts of water to dilute material in stomach. Follow with milk. Never give fluids if the victim is unconscious or having convulsions. GET MEDICAL ATTENTION IMMEDIATELY. Material can be fatal.
Inhalation:	Remove victim to fresh air and if needed immediately begin artificial respiration. Give oxygen if breathing is labored. Get emergency Medical help. Contact Physician immediately.

SECTION 5: FIREFIGHTING MEASURES

Flash Point (Method):	>200oF
Fire Hazard	No specific fire or explosion hazard
Explosion Hazard	Product is not explosive
Reactivity	No dangerous reactions known
Extinguishing Media:	Water Fog, Alcohol Foam, Carbon Dioxide and Dry Chemical. Do not use a direct spray of water
Fire Fighting Procedures:	Get people out of the area. Do not enter the fire area without full bunker equipment including NIOSH approved pressure supplied masks.
Unusual Fire Hazards:	Containers may explode from internal pressure if confined to fire. Cool with water. Keep unnecessary people away.

SECTION 6: ACCIDENTAL RELEASE MEASURES

General Measures:	Avoid all eyes and skin contact and do not breathe vapor and mist
Protective equipment:	Chemical goggles or safety glasses. Clothing impervious to chemical penetration. Wear suitable gloves resistant to chemical penetration.
For Spill:	In case of spillage absorb with inert material and dispose of in accordance with applicable regulations.
For Waste Disposal:	EPA approved hazardous waste disposal site.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling:	Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Avoid breathing mist/vapors/spray
Hygiene measures:	Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
Storage conditions:	Keep only in the original container in a cool well ventilated place. Keep container closed when not in use.
Incompatible products:	Strong acids, Strong oxidizers, Strong bases
Incompatible materials:	Sources of ignition.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Material	CAS#	PEL (OSHA)	TLV (ACGIH)	Percentage
Propylene Glycol	57-55-6	N/A	N/A	83-99%
Corrosion Inhibitor				<10
Water				<4

Eye:	Eye protection such as chemical splash goggles and/or face shield should be worn when the possibility exists for eye contact due to splashing or spraying liquid, airborne particles, or vapor. Contact lenses should not be worn.
Skin:	Not normally considered a skin hazard. When in skin contact wash hands and other exposed areas with mild soap and water before eating, drinking, smoking and when leaving work.
Engineering Controls:	No special ventilation is recommended under anticipated conditions of normal use beyond that needed for normal comfort control.
Other Hygiene And Work Practices	Use good personal hygiene practices. Wash hands before eating drinking, smoking or using toilet facilities. Promptly remove soiled clothing wash thoroughly before reuse. Shower after work using soap and water. No special work practices are needed beyond the above recommendations under anticipated conditions of normal use.

Summary of Hazards: No chronic health effects are expected from normal use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

COLOR		PURPLE
CORROSION WEIGHT LOSS, MG/COUPON	TYPICAL.	MAX.
BRASS	-4.3	-10
COPPER	-1.0	-10
SOLDER	-0.7	-30
STEEL	0	-10
IRON	0	-10
ALUMINUM	+0.7	-30
EQUILIBRIUM BOILING POINT, DEG. F° (ASTM D-1120)	305 MIN.	
FLASH POINT, DEG. F° (Open cup) ASTM D-92	225 MIN.	
FREEZING POINT, DEG. F° (ASTM D-1177)	-26 MAX.	
50 VOL. AQUEOUS SOLUTION 50% SOLUTION		
pH (ASTM D-1287) 33% BY VOL. DILUTION WITH H ₂ O 10-11		
RESERVE ALKALINITY (ASTM D-1121)	12 MIN.	
SPECIFIC GRAVITY 60/60 DEG F° (ASTM D-1122)	1.03-1.06	
SILICON	250 PPM MAX.	

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	No dangerous reaction known
Chemical Stability:	Stable under normal conditions
Incompatible materials:	Oxidizing agents, reducing agents and strong acids
Decomposition Products:	From fire – oxides of carbon and nitrogen, alcohols, Aldehydes, Ethers
Hazardous polymerization:	Will not occur

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity: Not Classified
Skin corrosion/irritation: Not Classified
Serious eye damage/irritation: Not Classified
Respiratory or skin sensitization: Not Classified

Germ cell mutagenicity: Not Classified
Carcinogenicity: Not Classified
Reproductive toxicity: Not Classified

SECTION 12: ECOLOGICAL INFORMATION

Persistence and Degradability: Inherently biodegradable
Avoid release to the environment
This material is not expected to be harmful to the ecology.

SECTION 13: DISPOSAL CONSIDERATIONS

Recommendation: Disposal must be made according to official regulations. Follow all local, state, and federal regulations.

SECTION 14: TRANSPORT INFORMATION

Hazard Class:	Not regulated
DOT Shipping Name:	Propylene Glycol Antifreeze
UN/NA Number:	Not regulated
Reportable Quantity:	None

SECTION 15: REGULATORY INFORMATION

EPA hazard categories:	N/A
Cercla RQ:	N/A
SARA TITLE III:	RQ – None; TPQ – None
SARA TITLE III, Section 313:	Component – Propylene Glycol. CAS – 57-55-6

SECTION 15: OTHER INFORMATION

Disclaimer of Responsibility:

The information on this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, expressed or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data and the substance itself. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way connected with handling, storage, use, or disposal of this product. If the product is used as a component in another product, this SDS information may not be applicable.

Footnotes: N/A – Not Applicable
App. – Approximate
< - Less Than

N/D – No Data
EST. – Estimated
> - Greater Than

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