

THERMOGUARD ® HD PRE-CHARGED ANTIFREEZE SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

PRODUCT: THERMOGUARD ® HD PRE-CHARGED ANTIFREEZE

OTHER MEANS OF IDENTIFICATION:

THERMOGUARD PRE-CHARGED ANTIFREEZE CONCENTRATE THERMOGUARD 100% ANTIFREEZE

MATERIAL USES: ANTIFREEZE, COOLANT

PRODCUT 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

Classification (GHS-US)

Acute Tox. 4 (Oral) H302 Skin Sens. 1 H317 Repr. 1B H360 STOT RE 2 H373

GHS-US Labeling

Hazard Pictograms (GHS-US):





Signal Word (GHS-US): Danger

Hazard Statements (GHS-US)

Heath Hazards:

H302-Harmful if swallowed

H317-May cause an allergic skin reaction H360-May damage fertility of the unborn child

H373-May cause damage to organs (Kidney) through prolonged

or repeated exposure (oral)

Precautionary Statement: P201-Obtain special instructions before use

P202-Do not handle until all safety precautions have been read

and understood

P260-Do not breathe mist, spray, vapors

P264-Wash hands, forearms, and exposed areas thoroughly

after handling.

P270-Do not eat, drink or smoke when using this product. P272-Contaminated work clothing should not be allowed out of

the workplace

P301 + P310-If swallowed: Immediately call a POISON CENTER

or doctor/physician

P301+P330+P331: If swallowed: Rinse mouth. Do NOT induce

vomitina.

P302+P352-If on skin; Wash with plenty of soap and water P305+P351: If in eyes: Rinse cautiously with water for several

minutes.

P304+P340+P312: If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison

center or doctor/physician if you feel unwell.

P333+P313-If skin irritation or rash occurs; get medical

advice/attention P405-Store locked up

P501-Dispose of contents/container in accordance with local and

national regulations

Other Hazards: Other hazards Not Contributing to the Classification: Exposure

may aggravate those with pre-existing eye, skin, or respiratory

conditions.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

MaterialCAS#PercentageEthylene Glycol107-21-183-95Diethylene Glycol111-46-6<5</td>Corrosion Inhibitor<10</td>Water<4</td>

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 Ethylene Glycol 107-21-1 50 ppm 50 ppm 83-95 Diethylene Glycol 111-46-6 None None <5 Corrosion Inhibitor <10 Water <4

Health Hazards

Acute: Prolonged exposure can be destructive to tissue especially eye

tissue. Inhalation of vapors or mist may cause mucous membrane irritation. Ingestion can result in central nervous system depression, kidney injury and destruction of tissue, all of

which could be fatal.

Chronic: Over exposure to vapors are associated with injuries to kidneys,

liver, lungs, blood and central nervous system. Skin absorption can induce central nervous system depression and kidney and liver injury. Repeated ingestion can cause brain damage and destruction of tissue. Ethylene Glycol had caused birth defects or

deaths in laboratory studies using pregnant mice and rats.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

 pH (50% water solution)
 8.6-11.0

 Freeze Point @ 50% volume*
 -34°F max.

 Specific Gravity (Water=1)
 1.072-1.125

 Vapor Pressure (mm of Hg 20/C)
 <0.1</td>

Boiling Point 349°F
Vapor Density (Air=1) NE
Evaporation Rate (BuAc=1) Nil
Water Solubility Complete
Appearance GREEN
Odor Mild

SECTION 10: STABILITY AND REACTIVITIY

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

Hazardous polymerization: Will not occur

SECTION 11: TOXICLOLOGICAL INFORMATION

Acute Toxicity: Harmful if swallowed

LOWEST KNOWN LD50 (ORAL) 107-21-1 7712 Mg/kg (Rats) LOWEST KNOWN LD50 (SKIN) 107-21-1 9530 Mg/kg (Rabbits)

SECTION 12: ECOLOGICAL INFORMATION

Persistence and Degradability: Not available

Avoid release to the environment

SECTION 13: DISPOSAL CONSIDERATIONS

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

and federal regulations.

Sewage disposal recommendations: Do not dispose of waste into sewer.

SECTION 14: TRNSPORT INFORMATION

Hazard Class: Not regulated, not considered a dangerous good for transport

DOT Shipping Name: Ethylene Glycol Antifreeze

UN/NA Number: Not regulated

Reportable Quantity: None

SECTION 15: REGULATORY INFORMATION

EPA hazard categories: Acute, chronic

Cercla RQ: 1 Pound based on Ethylene Glycol

SARA TITLE III: RQ – None; TPQ – None

SARA TITLE III, Section 313: Component – Ethylene Glycol. CAS – 107-21-1

Diethylene Glycol CAS-111-46-6

Disodium tetra borate, anhydrous CAS-1330-43-4

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 date 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 N/D - No Data

App. – Approximate EST. – Estimated < - Less Than > - Greater Than

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