



# SAFETY DATA SHEET

## Section 1 – Identification

### 1.1 Product identifier

**Product Name** : Gibraltar HD ELC Nitrate-Free

### 1.2 Product usage

**Recommended Usage** : Antifreeze Fluid

**Restricted Usage** : Dilution to 50% is generally recommended: dilute to meet local condition.

### 1.3 Emergency support

**Emergency Support** : CHEMTREC  
United States +1(800) 424-9300  
International +01(703) 527-3887

### 1.4 Supplier Information

David Weber Oil Co.  
601 Industrial Road  
Carlstadt, NJ 07072  
Manufactured By David Weber Oil Co.

## Section 2- Hazards Identification

### 2.1 Hazard Classification

<b>Acute Toxicity, Oral</b>	: Category 4
<b>Skin Corrosion / Irritation</b>	: Category 2
<b>Eye Damage Irritation</b>	: Category 2A
<b>Reproductive Toxicity</b>	: Category 2
<b>Specific Target Organ Toxicity (Single Exposure)</b>	: Category 1
<b>Specific Target Organ Toxicity (Repeated Exposure)</b>	: Category 2
<b>Signal Word</b>	: Danger
<b>Hazard statement</b>	: Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. Suspected of damaging fertility of the unborn child. Caused damage to the central nervous system and kidneys if swallowed. May cause damage to kidneys through prolonged or repeated exposure if swallowed.
<b>Pictogram Description</b>	: GHS: Health Hazard, Exclamation Point
<b>Precautionary Statement Prevention</b>	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash hands and other contacted skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear eye protection (splash goggles or full-face shield), protective gloves and protective clothing (chemically impervious). Do not breathe fumes, mist or spray.

## Response

- If swallowed** : Call a poison center or doctor if you feel unwell. Rinse mouth.  
**If on skin** : Wash with soap and plenty of water.  
**If skin irritation occurs** : Get medical attention. Take off contaminated clothing and wash it before reuse.  
**If in eyes** : Rinse eyes cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
**If eye irritation persists** : Get medical attention.  
**If exposed or concerned** : Get medical advice. Call a poison center. Get medical attention if you feel unwell.

- Storage** : Store locked up.  
**Disposal** : Contact local sewer, municipal, state and/or federal agencies to determine appropriate disposal options for the product. Dispose of this container with a registered reconditioner or as otherwise appropriate  
**Any other hazard not otherwise classified** : Not Applicable

## Section 3 - Composition/ Information on Ingredients

Chemical Name	Common Name and synonyms	CAS	% by weight
Ethylene Glycol	Monoethylene Glycol	107-21-1	92%
Water	N/A	7732-18-5	4%
Inhibitors & Dye	N/A	Proprietary	4%

## Section 4 – First aid Measures

### 4.1 Symptoms of Exposure

- Acute** : Irritation of affected area with symptoms of reddening, itching, swelling, burning, possible permanent damage, nausea, vomiting, weakness, and death.  
**Delayed** : Irritation of affected area with symptoms of reddening, itching, swelling, burning, possible permanent damage, nausea, vomiting, weakness, abdominal pain, muscle tenderness, respiratory failure, severe metabolic acidosis, hypocalcemia and death.  
**Inhalation** : Vapors and mists cause respiratory irritation and may be harmful if inhaled.  
**Skin** : Irritation may result. May be harmful if absorbed through skin.  
**Eye Contact** : Irritation may cause transitory stinging and tearing.  
**Ingestion** : Toxic, may be harmful or fatal if swallowed.

### 4.2 First Aid Instructions

- Inhalation** : Remove to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. Seek medical attention.  
**Skin** : Wash skin with soap and water for at least 20 minutes. Remove any contaminated clothing. Seek medical attention immediately if symptoms or irritation develops.  
**Eye** : Flush with water for at least 20 minutes. Seek medical attention if irritation develops or persists.  
**Ingestion** : DO NOT induce vomiting, seek medical attention immediately. Do not give anything by mouth to an unconscious person. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. Vomiting may occur spontaneously. If vomiting occurs and the victim is conscious, give water to victim to further dilute the chemical.  
**Other** : Consult a physician. Show safety data sheet to the doctor in attendance.

## Section 5 – Fire Fighting

### 5.1 Extinguishing Media

**Suitable extinguishing Material** : Water, water fog, water spray, alcohol foam, dry chemical or carbon dioxide.  
**Unsuitable Extinguishing material** : No data available  
**Hazards from Combustion** : Smoke may contain the original material in addition to but not limited to: Carbon Monoxide, Carbon Dioxide.  
**Special Protective equipment for firefighters** : Wear self-contained breathing apparatus and protective suit. Evacuate personnel to safe areas and keep upwind of fire.

## Section 6 - Accidental Release Measures

**Use of personal precautions** : Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment.  
**Protective equipment to prevent the Contamination of skin, eyes, & clothing** : Usage of safety glasses or goggles is recommended. Chemical resistant gloves, chemical resistant apron, boots, and full suit will be necessary depending on the extent of clean up task. If ventilation does not control airborne concentration then respiratory protection equipment that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements should be used.  
**Methods and materials used for containment** : Collect liquid in an appropriate container or absorb with inert material and place in chemical waste container.  
**Cleanup procedures** : Do not flush to sewer. Comply with all federal, state, and local regulations.

## Section 7 - Handling & Storage

**Precautions** : Protect container from physical damage. Wear appropriate personal protection equipment. Do not expose containers to open flame, excessive heat, or direct sunlight. Use local exhaust over processing area. Do not eat, drink or smoke around products.  
**Storage and receptacles** : Store in a cool, dry and ventilated area away from sources of heat, moisture and incompatible materials. Observe all warnings and precautions listed for the product. Keep container closed to prevent contamination

## Section 8 - Exposure Control

OSHA Permissible Exposure Limits (PELs)	Not Applicable
American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values	ACGIH TLV: 100 mg/m <sup>3</sup>
Other Exposure Limits	OSHA – Table Z-1 Limits for air contaminants - 1910.1000: 50 ppm 125 mg/m <sup>3</sup> .
Engineering Control	Use mechanical (general) ventilation to control airborne levels Below exposure guidelines.
Individual Protection Measures	Wear protective safety glasses or goggles, gloves, apron, Vapor Respirator.

## Section 9 - Physical & Chemical Properties

### 9.1 Information on Basic Physical and Chemical Properties

Appearance (physical state, color, etc)	Liquid, Clear, Red or Yellow
Upper/lower flammability or explosive limits:	Not Explosive; LOWER: 3.2% (v) UPPER: 15.3% (v)
Odor	Slight to no odor
Vapor pressure:	134 Pa / 0.1 mmHg
Odor threshold:	No data available
Vapor density (air = 1):	2.14
pH:	7.5 - 8.5
Relative density:	1.120 - 1.140
Freezing point (as 50%)	-34°F / -37°C
Solubility(ies)	Miscible in water
Initial boiling point and boiling range	385°F / 196°C
Flash point	232°F / 111°C
Evaporation rate (Butyl Acetate = 1)	<1
Flammability (solid, gas)	This material is Not Flammable but can burn if heated
Partition coefficient: n-octanol/water	Log Pow: -1.36
Auto-ignition temperature	> 700°F / > 370°C
Decomposition temperature	Not Applicable
Viscosity	~16 cps at 60°F

## Section 10 - Stability & Reactivity

<b>Reactivity</b>	: Product is stable under typical use temperatures.
<b>Chemical Stability</b>	: Product is stable under typical use temperatures.
<b>Hazardous Reactions</b>	: Avoid contact with oxidizing materials strong bases and strong acids.
<b>Conditions to Avoid</b>	: Heat, flames, ignition sources and incompatibles.
<b>Incompatible Materials</b>	: Avoid contact with oxidizing agents, strong bases and strong acids.
<b>Decomposition Products</b>	: Carbon dioxide and carbon monoxide may form when heated to decomposition.

## Section 11- Toxicological Information

### 11.1 Effects from short term exposure

<b>Delayed Effects</b>	: Irritation of affected area
<b>Immediate Effects</b>	: Irritation of affected area
<b>Chronic Effects</b>	: Not Applicable
<b>The numerical measures of toxicity (e.g., acute toxicity estimates such as the LD50 toxicity estimates such as the LD50 (median lethal dose)</b>	: The estimated amount [of a substance] expected to kill 50% of test animals in a single dose.
<b>Description of the symptoms</b>	: This description includes the symptoms associated with exposure to the chemical including symptoms from the lowest to the most severe exposure.
<b>Listed in the National Toxicology Program Report on Carcinogens</b>	: No
<b>Found to be a potential carcinogen in the International Agency for Research on Cancer Monographs</b>	: No
<b>Found to be a potential carcinogen by OSHA</b>	: No

### 11.2 Effects from long term exposure

<b>Delayed Effects</b>	: Irritation of affected area
<b>Immediate Effects</b>	: Irritation of affected area
<b>Chronic Effects</b>	: Teratogenic effects
<b>The numerical measures of toxicity</b>	: Skin: LD50 - Rabbits - >10600 mg/kg Ingestion: LD50 - Rats - 7712mg/kg; Lethal Dose Human Adult - 90mL.
<b>Description of the symptoms</b>	: Irritation, nausea, vomiting, abdominal pain, weakness, muscle tenderness, respiratory failure, convulsions, cardiovascular collapse, pulmonary edema, hypocalcemic tetany, metabolic acidosis, death.
<b>Listed in the National Toxicology Program Report on Carcinogens</b>	: No
<b>Found to be a potential carcinogen in the International Agency for Research on Cancer Monographs</b>	: No
<b>Found to be a potential carcinogen by OSHA</b>	: No

## Section 12 - Ecological Information

<b>Ecotoxicity</b>	: Low Ecotoxicity
<b>Persistence and Degradability</b>	: Biodegradable.
<b>Bioaccumulation</b>	: Does not bioaccumulate significantly
<b>Mobility in Soil</b>	: Dissolves in water. If product enters soil, it will be highly mobile and may contaminate ground water.
<b>Other Adverse Effects</b>	: No Data Available

## Section 13 - Disposal Considerations

### 13.1 Waste treatment

Do not dump into sewers, on ground or into any bodies of water. Contact local sewer, municipal, state and/or federal agencies to determine appropriate disposal options

## Section – 14 Transportation Information

**Is product DOT regulated in Non-Bulk packaging?** : No

<b>UN number</b>	UN3082
<b>UN proper shipping name</b>	Environmentally hazardous substances, liquid, n.o.s
<b>Transport hazard class(es)</b>	9
<b>Packing group number</b>	III
<b>Environmental hazards (e.g., identify if it is a marine pollutant according to the International Maritime Dangerous Goods Code (IMDG Code))</b>	Not Regulated
<b>Guidance on transport in bulk (according to Annex II of MARPOL 73/783 and the International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (International Bulk Chemical Code (IBC Code))</b>	Not Regulated
<b>Any special precautions which an employee should be aware of or needs to comply with, in connection with transport or conveyance either within or outside their premises.</b>	Reportable Quantity (RQ): 5000 lbs Ethylene Glycol

## Section 15 - Regulatory Information

**Safety Regulations** : OSHA Hazard Communication Standard: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SARA 311/312	Based upon available information, this material is classified as the following health and/or physical hazards according to Section 311 & 312	Superfund Amendments and Reauthorization Act of 1986 Title III (SARA) Sections 311 and 312: Immediate (Acute) Health Hazard - Yes; Delayed (Chronic) Health Hazard - Yes; Fire Hazard - No; Reactive Hazard - No; Sudden Release of Pressure Hazard - No. Section 313: Product contains the following substances which are subject to reporting requirements and are listed in 40 CFR 372 - Component: Ethylene Glycol CAS#: 107-21-1 Amount: >=99.0%
HMIS	Blue/Health Red/Flammability Orange/Physical Hazard White/Personal Protection	2 1 0 X
NFPA 0(no hazard) to 4(severe risk)	Health (Blue) Flammability (Red) Special (White) Instability/Reactivity (Yellow)	2 1 0 N/A
US Toxic Substance Control Act		All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30
CEPA – Domestic Substances List (DSL)		All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

## Section 16 - Other Information

This SDS is applicable for all dilutions and containers for this brand of product. The information herein is provided in good faith and believed to be accurate as of the effective revision date shown. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/ user's responsibility to ensure that activities comply with all federal, state, provincial or local law.