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Safety Data Sheet: Antifreeze EXL Red

Revision Date: January 2, 2024

# SECTION 1

# PRODUCT AND COMPANY IDENTIFICATION

#### **PRODUCT**

Product Name: Beacon Antifreeze EXL Red

**Product Description:** Glycol

Intended Use: Antifreeze/coolant

# **COMPANY IDENTIFICATION**

**Supplier:** Beacon Lubricants

P.O Box 754

Edinboro, PA 16412

**Emergency Telephone:** 1-877-734-7334 – Beacon Lubricants, Inc.

**Emergency Telephone:** 1-800-424-9300 (24 hours) – Chemtrec approval

**Website:** www.beaconlubricants.com

# SECTION 2

# HAZARDS IDENTIFICATION

This material is hazardous according to regulatory guidelines (M)SDS Section 15)

### **CLASSIFICATION:**

Acute oral toxicant: Category 4. Specific target organ toxicant (repeated exposure): Category 2.

### LABEL:

#### Pictogram:



Signal Word: Warning

### **Hazard Statements:**

H302: Harmful if swallowed. H373: May cause damage to organs through prolonged or repeated exposure. Kidney

# **Precautionary Statements:**

P101: If medical advice is needed, have product container or label at hand. P102: Keep out of reach of children. P103: Read label before use. P260: Do not breathe mist / vapors. P264: Wash skin thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P301 + P310: IF SWALLOWED: Immediately call a POISION CENTER or doctor/physician. P315: Get immediate medical advice/attention. P330: Rinse mouth. P501: Dispose of contents and container in accordance with local regulations.

Contains: DIETHYLENE GLYCOL; ETHYLENE GLYCOL

#### Other hazard information:

**HAZARD NOT OTHERWISE CLASSIFIED (HNOC):** None as defined under 29 CFR 1900, 1200.

# PHYSICAL / CHEMICAL HAZARDS

No significant hazards.

#### **HEALTH HAZARDS**

High-pressure injection under skin may cause serious damage. Ingestion may cause serious adverse effect and may be fatal. May cause kidney failure and central nervous system effects. Prolonged exposure to elevated concentrations of mist or liquid may cause irritation of the skin, eyes, and respiratory tract.

# **ENVIRONMENTAL HAZARDS**

No significant hazards.

NFPA Hazard ID: Health: 1 Flammability: 1 Reactivity: 0

HMIS Hazard ID: Health: 2\* Flammability: 1 Reactivity: 0

**Note:** This material should not be used for any other purpose than the indented use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

# **SECTION 3**

# COMPOSITION / INFORMATION ON INGREDIENTS

This material is defined as a mixture.

# Hazardous Substance(s) or Complex Substance(s) required for disclosure

| Name            | CAS#     | Concentration* | GHS HAZARD |
|-----------------|----------|----------------|------------|
|                 |          |                | CODES      |
| DIETHLYENE      | 111-46-6 | 1 - < 5%       | H302, H373 |
| GLYCOL          |          |                |            |
| ETHYLENE GLYCOL | 107-21-1 | 40 - < 50 %    | H302, H373 |

<sup>\*</sup>All Concentrations are percent by weight unless material is a gas. Gas concentration are in the percent by volume.

As per paragraph (i) of 29 CFR 1910.1200, formulation is a considered a trade secret and specific chemical identity and exact percentage (concentration) of composition may have been withheld. Specific chemical identity and exact percentage composition will be provided to health professionals, employees, or designated representatives in accordance with applicable provisions of paragraph (i).

# SECTION 4

#### FIRST AID MEASURES

#### INHALATION

Immediately remove from further exposure. Get immediate medical assistance. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. Give supplemental oxygen, if available. If breathing has stopped, assist ventilation with mechanical device.

#### SKIN CONTACT

Wash contact areas with soap and water. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms form high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extend of injury.

#### **EYE CONTACT**

Flush thoroughly with water. If irritation occurs, get medical assistance.

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#### **INGESTION**

Seek immediate medical attention.

#### NOTE TO PHYSICIAN

This product contains ethylene glycol and/or diethylene glycol which, if ingested, are metabolized to toxic metabolites by the enzyme alcohol dehydrogenase, for which ethanol and 4-methylphyrazzole {U.S. drug name Fomepizole, trade name Antizol} are antagonists. Administration of oral or intravenous ethanol or intravenous 4-methlypyrazole may arrest further metabolism of this material and thereby ameliorate the toxicity. Use of ethanol or 4-methylpryrazole does not affect toxic metabolites that are already present and is not a substitute for hemodialysis.

# SECTION 5

# FIRE FIGHTING MEASURES

#### **EXTINGUISHING MEDIA**

**Appropriate Extinguishing Media:** Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

Inappropriate Extinguishing Media: Straight streams of water or regular foam

#### FIRE FIGHTING

**Fire Fighting Instructions:** Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

**Hazardous Combustion Products:** Smoke, Fume, Oxides of carbon, Incomplete combustion products, Aldehydes.

# **FLAMMABILITY PROPERTIES**

Flash Point [Method]: 119°C (246°F) [Setaflash Closed Cup

Flammable Limits (Approximate volume % in air): LEL: 3.2 UEL: 15.3

**Autoignition Temperature:** >371°C (700°F)

# SECTION 6

# ACCIDENTAL RELEASE MEASURES

#### NOTIFICATION PROCEDURES

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. US regulations require reporting releases of this material to the environment which exceed the applicable reportable quantity or oil spills which could reach any waterway including intermittent dry creeks. The National Response Center can be reached at (800)424-8802.

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# **PROTECTIVE MEASURES**

Avoid contact with spilled material. Warn or evacuate occupants in surrounding and downwind areas if required due to toxicity or flammability of the material. See Section 5 for firefighting information. See the Hazard Identification Section for Significant Hazards. See Section 4 for First Aid Advice. See Section 8 for advice on the minimum requirements for personal protective equipment. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgement of the emergency responders.

#### SPILL MANAGEMENT

**Land Spill:** Stop leak if you can do it without risk. Do not touch or walk through spilled material. Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Recover by pumping or with suitable absorbent.

**Water Spill:** Stop leak if you can do it without risk. Consult and expert. Warn other shipping. Material will sink. Remove material, as much as possible, using mechanical equipment.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

#### **ENVIRONMENTAL PRECAUTIONS**

Remove debris in path of spill and remove contaminated debris from shoreline and water surface and dispose of according to local regulations. Large Spills: Dike far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

# SECTION 7

#### HANDLING AND STORAGE

#### HANDLING

Avoid breathing mists or vapors. Avoid contact with skin. Prevent small spills and leakage to avoid slip hazard.

Static Accumulator: This material is a static accumulator.

#### **STORAGE:**

Do not store in open or unlabeled containers.

#### SECTION 8

# EXPOSURE CONTROLS / PERSONAL PROTECTION

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#### **EXPOSURE LIMIT VALUES**

# Exposure limits/standards (Note: Exposure limits are not additive)

| Substance  | Form    | Limit/Sto | andard | Note | Source |
|------------|---------|-----------|--------|------|--------|
| Name       |         |           |        |      |        |
| DIETHYLENE |         | TWA       | 10     | N/A  | OARDS  |
| GLYCOL     |         |           | mg/m3  |      | WEEL   |
| ETYHLENE   | Aerosol | Ceiling   | 100    | N/A  | ACGIH  |
| GLYCOL     |         |           | mg/m3  |      |        |

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

No biological limits allocated.

#### **ENGINEERING CONTROLS**

The level of protection and toes of controls necessary will vary depending upon potential exposure conditions.

Control measures to consider: No special requirements under ordinary conditions of use and with adequate ventilation.

#### PERSONAL PROTECTION

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information of the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

**Respiratory Protection:** If engineering controls do not maintain airborne contaminant concentrations at a levee which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include: No protection is ordinarily required under normal conditions of use and with adequate ventilation.

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For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapor warning properties are poor, or if air purifying filters capacity/rating may be exceeded.

**Hand Protection:** Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacture for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include:

If prolonged or repeated contact is likely, chemical resistant gloves are

If prolonged or repeated contact is likely, chemical resistant gloves are recommended. If contact with forearms is likely, wear gauntlet style gloves.

**Eye Protection:** If contact is likely, safety glasses with side shields are recommended.

**Skin and Body Protection:** Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include: If prolonged or repeated contact is likely, chemical, and oil resistant clothing is recommended.

**Specific Hygiene Measures:** 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. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

# **Environmental Controls**

Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions.

# SECTION 9

# PHYSICAL AND CHEMICAL PROPERTIES

**Note:** Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Contact the Supplier for additional information.

#### GENERAL INFORMATION

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Physical State: Liquid

Color: Red

Odor: Characteristic Odor Threshold: N/D

# IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION

Relative Density (at 15 °C): .1.115 Flammability (Solid, Gas): N/A

Flash Point [Method] 119°C (246°F) [Setaflash Closed Cup]

Flammable Limits (Approximate volume % in air): LEL: 3.2 UEL: 15.3

**Auto ignition Temperature:** >371°C (700°F)

**Vapor Density (Air =1):** 2.1 at 101 kPa [n-butyl acetate]

**Vapor Pressure:** < 0.013 kPa (0.1 mm Hg) at 20°C

Evaporation Rate (n-butyl acetate = 1): N/D

**pH:** 6 [Estimated]

Log Pow (n-Octanol/Water Partition Coefficient): < 2

Solubility in Water: Complete

**Viscosity:** <15.6 cSt (15.6 mm2/sec) at 40°C

Oxidizing Properties: See Hazards Identification Section.

# SECTION 10

# STABILITY AND REACTIVITY

**REACTIVITY:** See sub-sections below.

**STABILITY:** Material is stable under normal conditions

**CONDITIONS TO AVOID:** High energy sources of ignition.

MATERIALS TO AVOID: Strong oxidizers, strong acids

HAZARDOUS DECOMPOSITION PRODUCTS: Material does not decompose at

ambient temperatures.

**POSSIBILITY OF HAZARDOUS REACTIONS:** Hazardous polymerization will not occur.

# SECTION 11

#### TOXICOLOGICAL INFORMATION

#### INFORMATION ON TOXICOLOGICAL EFFECTS

| Hazard Class | Conclusion / Remarks |
|--------------|----------------------|
| Inhalation   |                      |



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| Acute Toxicity: No end point data for                     | Minimally Toxic. Based on the               |
|---|---|
| material.   | assessment of the components.               |
| Irritation: No end point data for                         | Negligible hazard at ambient/normal         |
| material.   | handling temperatures.                      |
| Ingestion   |   |
| Acute Toxicity: No end point data for                     | Minimally Toxic. Based on assessment        |
| material  | of components.                              |
|   |   |
| Skin  |   |
| Acute Toxicity: No end point data for                     | Minimally Toxic. Based on assessment        |
| material  | of components.                              |
| Skin Corrosion/Irritation: No end point                   | Negligible irritation to skin at ambient    |
| data for material.  | temperatures. Based on assessment of        |
| _   | the components.                             |
| Eye   | 1,,   |
| Serious Eye Damage/Irritation: No end                     | May cause mild, short-lasting               |
| point data for material                                   | discomfort to eyes. Based on                |
| Compileration   | assessment of components.                   |
| Sensitization   | Niet europateulte le concernation           |
| Respiratory Sensitization: No end point data for material | Not expected to be a respiratory sensitizer |
| Skin Sensitization: No end point date for                 | Not expected to be a skin sensitizer.       |
| material  | Based on assessment of the                  |
| marchai   | components.                                 |
| Aspiration: Date available                                | Not expected to be an aspiration            |
| The same available  | hazard. Based on phsico-chemical            |
|   | properties of the materials.                |
| Germ Cell Mutagenicity: No end point                      | Not expected to be a germ cell              |
| data for material   | mutagen. Based on assessment of the         |
|   | components.                                 |
| Carcinogenicity: No end point data for                    | Not expected to cause cancer. Based         |
| material  | on assessment of the components.            |
| Reproductive Toxicity: No end point                       | Not expected to be a reproductive           |
| data for material   | toxicant. Based on the assessment of        |
|   | the components                              |
| Lactation: No end point data for                          | Not expected to cause harm to               |
| material  | breast-fed children                         |
| Specific Target Organ Toxicity (STOT)                     | Nata  |
| Single Exposure: No end point data for                    | Not expected to cause organ                 |
| material  | damage from a single exposure               |



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Repeated Exposure: No end point data Not expected to cause organ damage from prolonged or repeated exposure. Based on assessment of the components.

#### **TOXICITY FOR SUBSTANCES**

| NAME            | ACUTE TOXICITY                        |  |
|-----------------|---------------------------------------|--|
| ETHYLENE GLYCOL | Oral Lethality: LD50 4700 mg/kg (Rat) |  |

#### OTHER INFORMATION

For the product itself: Target Organs Repeated Exposure: Kidney

# **Contains:**

for material

DIETHYLENE GLYCOL (DEG): Orally, DEG is more toxic to humans than animal test data indicate. Probable lethal dose for an adult is about 50 ml (2 oz.), or 2-3 swallows. Smaller amounts may cause kidney degeneration and failure. Benign urinary bladder tumors were observed in rats, no tumors were observed in mice. ETHLYENE GLYCOL (EG): Repeated high oral exposure has caused kidney damage, neurological effects, degeneration of the liver and changes in blood chemistry and circulating blood cells in laboratory animals. Repeated overexposure has the potential to cause similar toxic effects in humans. EG causes developmental and reproductive effects at high dose levels in laboratory animals. The relevance of these findings to humans is uncertain.

# The following ingredients are cited on the lists below: None.

-- REGULATORY LISTS SEARCHED--

1 = NTP CARC 3 = IARC 15 = IARC 2B2 = NTP SUS4 = IARC 2A6 = OSHA CARC

# SECTION 12

# **ECOLOGICAL INFORMATION**

The information given is based on data available for the material, the components of the material, and similar materials.

# **ECOTOXICITY**

Material — Not expected to be harmful to aquatic organisms.

### **MOBILITY**

**Material-** Expected to remain in water or migrate through soil.

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# PERSISTENCE AND DEGRADABILITY

# **Biodegradation:**

Base Oil Components— Expected to be readily biodegradable

# **Atmospheric Oxidation:**

Material—Expected to degrade rapidly in air

# **BIOACCUMULATION POTENTIAL**

Material—Potential to bioaccumulate is low.

# SECTION 13

# **DISPOSAL CONSIDERATIONS**

Disposal recommendations based on material as supplied. Disposal must be in accordance current applicable laws and regulations, and material characteristics at time of disposal.

#### DISPOSAL RECOMMENDATIONS

Even though this product is biodegradable, it must not be indiscriminately discarded into the environment. Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products.

#### REGULATORY DISPOSAL INFORMATION

RCRA Information: Disposal of unused product may be subject to RCRA regulations (40 CFR 261). Disposal of the used product may be also regulated due to ignitability, corrosivity, reactivity or toxicity as determined by the Toxicity Characteristic Leaching Procedure (TCLP). Potential RCRA characteristics: IGNITABILITY.

**Empty Container Warning:** Empty Container Warning (where applicable): Empty containers may contain reside and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJUST OR DEATH.

SECTION 14

TRANSPORT INFORMATION

LAND (DOT):

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Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID,

N.O.S. (Ethylene Glycol) **Hazard Class & Division:** 9

ID Number: 3082 Packaging Group: III

Product RQ: 10526.32 LBS - ETHYLENE GLYCOL

ERG Number: 171

Label(s): 9

Transport Document Name: UN3082, ENVIRONMENTALLY HAZARDOUS

SUBSTANCES, LIQUID, N.O.S. (Ethylene Glycol), 9, PG III, RQ

Footnote: This material is not regulated under 49 CFR when the quantity in a package is less than the Product RQ.

LAND (TDG): Not Regulated for Land Transport

SEA (IMDG): Not Regulated for Sea Transport according to IMDG-Code

Marine Pollutant: No

AIR (IATA): Not Regulated for Air Transport

# SECTION 15

### REGULATORY INFORMATION

**OSHA HAZARD COMMUNICATION STANDARD:** This material is considered hazardous in accordance with OHSA HazCom 2012, 29, CFR 1910. 1200.

# Complies with the following national/regional

chemical inventory requirements: AICS, DSL, ENCS, IECSC, KECI, PICCS, TSCA

**EPCRA SECTION 302:** This material contains no extremely hazards substances.

| Chemical<br>Name   | CAS Number | Typical Value | Component<br>RQ | Product RQ   |
|--------------------|------------|---------------|-----------------|--------------|
| ETHYLENE<br>GLYCOL | 107-21-1   | 40 - < 50%    | 5000 LBS        | 10526.32 LBS |
| ETHYLENE<br>GLYCOL | 107-21-1   | 40 - < 50 %   | 5000 LBS        | 10526.32 LBS |

SARA (311/312) REPORTABLE HAZARD CATEGORIES: Immediate Health. Delayed Health

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# **SARA (313) TOXIC RELEASE INVENTORY:**

| Chemical Name   | CAS Number | Typical Value |
|-----------------|------------|---------------|
| ETHLYENE GLYCOL | 107-21-1   | 40 - < 50%    |

# The following ingredients are cited on the lists below:

| Chemical Name     | CAS Number | List Citations    |
|-------------------|------------|-------------------|
| DIETHYLENE GLYCOL | 111-46-6   | 16                |
| ETHYLENE GLYCOL   | 107-21-1   | 1, 13, 16, 18, 19 |

# The following ingredients are cited on the lists below: None

-- REGULATORY LISTS SEARCHED-

| 1 = ACGIH ALL     | 6 = TSCA 5a2 | 11 = CA P65 REPRO | 16 = MN RTK |
|-------------------|--------------|-------------------|-------------|
| 2 = ACGIH A1      | 7 = TSCA 5e  | 12 = CA RTK       | 17 = NJRTK  |
| 3 = ACGIH A2      | 8 = TSCA 6   | 13 = IL RTK       | 18 = PA RTK |
| 4 = OSHA Z        | 9 = TSCA 12b | 14 = LA RTK       | 19 = RI RTK |
| $5 = TS \cap A A$ | 10 = CAPACAR | C 15 = MI 293     |             |

Code Key: CARC=Carcinogen; REPRO=Reproductive

# SECTION 16

# OTHER INFORMATION

N/D = Not determined, N/A = Not applicable

# **KEY TO THE H-CODES CONTAINED IN SECTION 3 OF THIS DOCUMENT (for information only):**

H302: Harmful if swallowed; Acute Tox Oral, Cat 4

H373: May cause damage to organs through prolonged or repated exposure;

Target Organ, Repeated, Cat 2

#### THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:

Updates made in accordance with implementations of GHS requirements. The information and recommendations contained herein are, to the best of Beacon Lubricants knowledge and belief, accurate and reliable as of the date issued. You can contact Beacon Lubricants to insure that this document is the most current available from Beacon Lubricants. The information and



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recommendations are offered for the user's consideration and examination. It is the user's responsibility to satisfy itself that the product is suitable for intended use. If the buyer repackages this product, it is the user's responsibility to insure proper health, safety and other necessary information is included with and/or on the container. Appropriate warnings and safe-handling procedures should be provided to handlers and users. Alternation of this document is strictly prohibited. Expect to the extent required by law, re-publication or retransmission of this document, in whole or in part, is not permitted.