

## Enviro-Safe Like Magik

1	PRODUCT AND COMPANY IDENTIFICATION
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**Product Identifier:** Enviro-Safe Like Magik  
**SDS Number:** 2162  
**Revision Date:** 8/11/2021  
**Version:** 2.0  
**Product Description:** Cleaner and degreaser  
  
**Supplier Details:** Enviro-Safe Refrigerants, Inc.  
 400 Hanna Drive  
 Pekin, IL 61554  
  
**Contact:** Randy Price  
**Phone:** 309-346-1110  
**Fax:** 309-346-1237  
**Email:** info@es-refrigerants.com  
**Internet:** www.es-refrigerants.com  
**Emergency:** CHEMTREC 1-800-424-9300

2	HAZARDS IDENTIFICATION
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### Classification of Substance

**GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):**

- Physical, Flammable Liquids, 4
- Health, Acute toxicity, 4 Oral
- Health, Acute toxicity, 4 Dermal
- Health, Skin corrosion/irritation, 1 B
- Health, Skin corrosion/irritation, 2
- Health, Serious Eye Damage/Eye Irritation, 1
- Health, Serious Eye Damage/Eye Irritation, 2 A
- Health, Acute toxicity, 4 Inhalation
- Health, Specific target organ toxicity - Single exposure, 3

### GHS Label Elements, Including Precautionary Statements

**GHS Signal Word:** **DANGER**

**GHS Hazard Pictograms:**



**GHS Hazard Statements:**

- H227 - Combustible liquid
- H302 - Harmful if swallowed
- H312 - Harmful in contact with skin
- H314 - Causes severe skin burns and eye damage
- H315 - Causes skin irritation
- H318 - Causes serious eye damage
- H319 - Causes serious eye irritation
- H332 - Harmful if inhaled
- H336 - May cause drowsiness or dizziness

**GHS Precautionary Statements:**

- P210 - Keep away from heat/sparks/open flames/hot surfaces.
- P260 - Do not breathe dust or mist.
- P261 - Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
- P264 - Wash skin thoroughly after handling.
- P270 - Do not eat, drink or smoke when using this product.
- P271 - Use only outdoors or in a well-ventilated area.
- P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.

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P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.  
 P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
 P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.  
 P303 + P361 + P353 - IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
 P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 - Immediately call a POISON CENTER or doctor/ physician.  
 P312 - Call a POISON CENTER or doctor/ physician if you feel unwell.  
 P321 - Specific treatment (see supplemental first aid instructions on this label).  
 P322 - Specific measures (see supplemental first aid instructions on this label).  
 P330 - Rinse mouth.  
 P332 + P313 - If skin irritation occurs: Get medical advice/ attention.  
 P337 + P313 - If eye irritation persists: Get medical advice/ attention.  
 P362 - Take off contaminated clothing and wash before reuse.  
 P363 - Wash contaminated clothing before reuse.  
 P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.  
 P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.  
 P403 + P235 - Store in a well-ventilated place. Keep cool.  
 P405 - Store locked up.  
 P501 - Dispose of contents/ container to an approved waste disposal plant.

<b>3</b>	<b>COMPOSITION/INFORMATION ON INGREDIENTS</b>
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CAS#	%	Chemical Name:
111-76-2		Ethylene glycol monobutyl ether
6834-92-0		Silicic acid (H <sub>2</sub> SiO <sub>3</sub> ), disodium salt
7732-18-5		Water

<b>4</b>	<b>FIRST AID MEASURES</b>
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**Inhalation:** If symptoms develop, move victim to fresh air. If symptoms persist obtain medical attention. Wash mouth and nasal passage with water repeatedly.

**Skin Contact:** Wash contacted area with soap and water. DO NOT attempt to neutralize with chemical agents. Get medical attention if needed.

**Eye Contact:** Immediately flush eyes for 15 minutes in clear running water. DO NOT attempt to neutralize with chemical agents. Get immediate medical attention.

**Ingestion:** Drink a large quantities of water or milk. Give diluted vinegar or lemon juice to conscious person. Do NOT induce vomiting. Immediately, call a POISON CENTER or DOCTOR/PHYSICIAN.

Acute and chronic:

Corrosive to skin and eyes; prolonged inhalation of this product may cause ulcers to the upper respiratory tract.

<b>5</b>	<b>FIRE FIGHTING MEASURES</b>
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CO<sub>2</sub>; water; water fog; dry chemical; chemical foam

<b>6</b>	<b>ACCIDENTAL RELEASE MEASURES</b>
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Wash small spills to sanitary sewer.  
 Large spills - confine spill and soak up with approved, absorbent, shovel product into an approved container.

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### HANDLING AND STORAGE

**Storage Requirements:**           Keep container closed when not in use.  
Protect containers from abuse.  
Protect from extreme temperatures.

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### EXPOSURE CONTROLS/PERSONAL PROTECTION

**Personal Protective Equipment:**   HMIS PP, B | Safety Glasses, Gloves

Ethylene glycol monobutyl ether cas#:(111-76-2)

Personal protective equipment

Eye/face protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact: Material: Nitrile rubber Minimum layer thickness: 0.4 mm Break through time: 480 min Material tested:Camatril (KCL 730 / Aldrich Z677442, Size M)

Splash contact: Material: Nitrile rubber Minimum layer thickness: 0.2 mm Break through time: 30 min Material tested:Dermatril P (KCL 743 / Aldrich Z677388, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection: Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi- purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Silicic acid (H<sub>2</sub>SiO<sub>3</sub>), disodium salt cas#:(6834-92-0)

Personal protective equipment

Eye/face protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact: Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:Dermatril (KCL 740 / Aldrich Z677272, Size M)

Splash contact: Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:Dermatril (KCL 740 / Aldrich Z677272, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection: Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure: Do not let product enter drains.

Water cas#:(7732-18-5)

Personal protective equipment

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique

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(without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.  
 Full contact: Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested: Dermatril (KCL 740 / Aldrich Z677272, Size M)  
 Splash contact: Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested: Dermatril (KCL 740 / Aldrich Z677272, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.  
 Respiratory protection: No special protective equipment required.  
 Control of environmental exposure: Prevent product from entering drains.

Ethylene glycol monobutyl ether cas#:(111-76-2)

Components with workplace control parameters

TWA 20 ppm USA. ACGIH Threshold Limit Values(TLV)

Eye & Upper Respiratory Tract irritation

Confirmed animal carcinogen with unknown relevance to humans

TWA 5 ppm USA. NIOSH Recommended

24 mg/m3 Exposure Limits

Potential for dermal absorption

TWA 50 ppm USA. Occupational Exposure Limits

240 mg/m3 (OSHA) - Table Z-1 Limits for Air Contaminants

Skin designation

The value in mg/m3 is approximate.

TWA 25 ppm USA. OSHA - TABLE Z-1 Limits for

120 mg/m3 Air Contaminants - 1910.1000

Skin notation

Silicic acid (H2SiO3), disodium salt cas#:(6834-92-0)

Water cas#:(7732-18-5)

<b>9</b>	<b>PHYSICAL AND CHEMICAL PROPERTIES</b>
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<b>Appearance:</b>	Purple	<b>Odor:</b>	No data available
<b>Physical State:</b>	Liquid	<b>Solubility:</b>	Complete in water
<b>Odor Threshold:</b>	No data available	<b>Percent Volatile:</b>	90%
<b>Specific Gravity or Density:</b>	1.070	<b>Freezing or Melting Point:</b>	No data available
<b>Viscosity:</b>	No data available	<b>Flash Point:</b>	No data available
<b>Boiling Point:</b>	100°(212°F)	<b>Vapor Density:</b>	<1
<b>Partition Coefficient:</b>	No data available	<b>Autoignition Temperature:</b>	No data available
<b>Vapor Pressure:</b>	17mm @ 20°C	<b>Upper Flammability Limit and Lower Flammability Limit:</b>	No data available
<b>Potentia Hydrogenii:</b>	13.0		
<b>Evaporation Rate:</b>	<1		
<b>Decompression Temperature:</b>	No data available		

<b>10</b>	<b>STABILITY AND REACTIVITY</b>
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<b>Reactivity:</b>	Stable
<b>Chemical Stability:</b>	Product is stable under normal conditions
<b>Conditions to AvoIdentification:</b>	Extremely high or low temperatures
<b>Materials to AvoIdentification:</b>	Strong oxidizing agents; Strong acids

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**Hazardous Decomposition:** Thermal decomposition may yield CO; CO<sub>2</sub>  
**Hazardous Polymerization:** Will not occur.

<b>11</b>	<b>TOXICOLOGICAL INFORMATION</b>
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Ethylene glycol monobutyl ether cas#:(111-76-2)  
 Information on toxicological effects  
 Acute toxicity:  
 LD50 Oral - rat - 470 mg/kg  
 LC50 Inhalation - rat - 4 h - 450 ppm Remarks: Behavioral:Ataxia. Nutritional and Gross Metabolic:Weight loss or decreased weight gain.  
 LD50 Dermal - rabbit - 220 mg/kg  
 LD50 Intraperitoneal - rat - 220 mg/kg  
 LD50 Intravenous - rat - 307 mg/kg  
 Skin corrosion/irritation: Skin - rabbit Result: Open irritation test  
 Serious eye damage/eye irritation: Eyes - rabbit Result: Moderate eye irritation - 24 h  
 Carcinogenicity:  
 IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (2-Butoxyethanol)  
 NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.  
 OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.  
 Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.

Additional Information:  
 RTECS: KJ8575000  
 Human exposure above 200 ppm can be expected to cause narcosis, damage to the kidney and liver and present an abnormal blood picture showing erythropenia, reticulocytosis, granulocytosis, leukocytosis, and would be likely to cause fragility of erythrocytes and hematuria. Swallowing of 2-butoxyethanol results in a sour taste that turns to a burning sensation and is followed by numbness of the tongue which indicates paralysis of the sensory nerve endings., Central nervous system depression, Headache, narcosis  
 Stomach - Irregularities - Based on Human Evidence

Silicic acid (H<sub>2</sub>SiO<sub>3</sub>), disodium salt cas#:(6834-92-0)  
 Information on toxicological effects  
 Acute toxicity:  
 LD50 Oral - rat - 1,153 mg/kg  
 Skin corrosion/irritation: Skin - rabbit Result: Severe skin irritation - 24 h  
 Carcinogenicity:  
 IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.  
 ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.  
 NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.  
 OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.  
 Reproductive toxicity - rat - Oral:  
 Effects on Newborn: Stillbirth. Effects on Newborn: Live birth index (# fetuses per litter; measured after birth). Effects on Newborn: Weaning or lactation index (e.g., # alive at weaning per # alive at day 4).  
 no data available  
 Specific target organ toxicity - single exposure: May cause respiratory irritation.

Additional Information:  
 RTECS: VV9275000  
 burning sensation, Cough, wheezing, laryngitis, Shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.

Water cas#:(7732-18-5)  
 Information on toxicological effects  
 Inhalation: no data available  
 Dermal: no data available  
 Skin corrosion/irritation: no data available  
 Serious eye damage/eye irritation: no data available  
 Respiratory or skin sensitisation: no data available  
 Germ cell mutagenicity: no data available

Carcinogenicity:  
 IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.  
 ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

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NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.  
 OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.  
 Reproductive toxicity: no data available  
 Specific target organ toxicity - single exposure: no data available  
 Specific target organ toxicity - repeated exposure: no data available  
 Aspiration hazard: no data available

**Additional Information:**

RTECS: ZC0110000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

<b>12</b>	<b>ECOLOGICAL INFORMATION</b>
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Ethylene glycol monobutyl ether cas#:(111-76-2)  
 Information on ecological effects  
 Toxicity:  
 Toxicity to fish LC50 - other fish - 220 mg/l - 96 h.  
 Toxicity to daphnia and EC50 - Daphnia magna (Water flea) - 1,815 mg/l - 24 h.  
 other aquatic invertebrates  
 Persistence and degradability: no data available  
 Ratio BOD/ThBOD 88 %  
 Bioaccumulative potential: no data available  
 Mobility in soil: no data available  
 Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted  
 Other adverse effects: no data available

Silicic acid (H<sub>2</sub>SiO<sub>3</sub>), disodium salt cas#:(6834-92-0)  
 Information on ecological effects  
 Toxicity: no data available  
 Persistence and degradability: no data available  
 Bioaccumulative potential: no data available  
 Mobility in soil: no data available  
 Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted  
 Other adverse effects: no data available

Water cas#:(7732-18-5)  
 Information on ecological effects  
 Toxicity: no data available  
 Persistence and degradability: not applicable  
 Bioaccumulative potential: no data available  
 Mobility in soil: no data available  
 Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted  
 Other adverse effects: no data available

<b>13</b>	<b>DISPOSAL CONSIDERATIONS</b>
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Ethylene glycol monobutyl ether cas#:(111-76-2)  
 Waste treatment methods  
 Product: This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.  
 Contaminated packaging: Dispose of as unused product.

Silicic acid (H<sub>2</sub>SiO<sub>3</sub>), disodium salt cas#:(6834-92-0)  
 Waste treatment methods  
 Product: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.  
 Contaminated packaging: Dispose of as unused product.

Water cas#:(7732-18-5)

## Enviro-Safe Like Magik

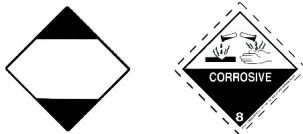
Waste treatment methods

Product: Taking into account local regulations the product may be disposed of as waste water after neutralisation.

<b>14</b>	<b>TRANSPORT INFORMATION</b>
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DOT:  
 Consumer commodity, ORM-D

IATA/IMDG:  
 NA1760, compounds, cleaning liquid, 8, PGII



<b>15</b>	<b>REGULATORY INFORMATION</b>
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[%] RQ (CAS#) Substance - Reg Codes

[--%] Ethylene glycol monobutyl ether (111-76-2) HAP, MASS, OSHAWAC, PA, TSCA, TXAIR

[--%] Silicic acid (H<sub>2</sub>SiO<sub>3</sub>), disodium salt (6834-92-0) TSCA

[--%] Water (7732-18-5) TSCA

This product does not contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

Regulatory Code Legend

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- HAP = Hazardous Air Pollutants
- MASS = MA Massachusetts Hazardous Substances List
- OSHAWAC = OSHA Workplace Air Contaminants
- PA = PA Right-To-Know List of Hazardous Substances
- TSCA = Toxic Substances Control Act
- TXAIR = TX Air Contaminants with Health Effects Screening Level

<b>16</b>	<b>OTHER INFORMATION</b>
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**Enviro-Safe Like Magik**

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