

# SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Low Conductivity Coolant

**Other means of identification**

**SDS number:** 200000003016

**Recommended use and restriction on use**

**Recommended use:** Reserved for industrial and professional use.

**Restrictions on use:** Not known. Read this SDS before using this product.

Lincoln Electric  
Low Conductivity Coolant  
#KP4159-1

### Manufacturer/Importer/Supplier/Distributor Information

**Company Name:** The Lincoln Electric Company

**Address:** 22801 Saint Clair Avenue  
Cleveland, Ohio 44117  
USA

**Telephone:** +1 (216) 481-8100

**Contact Person:** Safety Data Sheet Questions: [www.lincolnelectric.com/sds](http://www.lincolnelectric.com/sds)  
Arc Welding Safety Information: [www.lincolnelectric.com/safety](http://www.lincolnelectric.com/safety)

### Emergency telephone number:

USA/Canada/Mexico +1 (888) 609-1762

Americas/Europe +1 (216) 383-8962

Asia Pacific +1 (216) 383-8966

Middle East/Africa +1 (216) 383-8969

**3E Company Access Code:** 333988

## 2. HAZARDS IDENTIFICATION

Classified according to the criteria of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS), The United States Occupational Safety and Health Administration's Hazard Communication Standard (29 CFR 1910.1200), Canada's Hazardous Product Regulations and Mexico's Harmonized System for the Identification and Communication of Hazards and Risks from Hazardous Chemicals in the Workplace.

### Hazard Classification

#### Health Hazards

Acute toxicity (Oral) Category 4

Specific Target Organ Toxicity - Category 2  
Repeated Exposure

### Label Elements

**Hazard Symbol:**



**Signal Word:**

Warning

**Hazard Statement:** Harmful if swallowed.  
May cause damage to organs *Kidney* through prolonged or repeated exposure.

**Precautionary Statements:**

**Prevention:** Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product.

**Response:** IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. Get medical advice/attention if you feel unwell.

**Disposal:** Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.

**Other hazards which do not result in GHS classification:** None.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### Reportable Hazardous Ingredients Mixtures

| Chemical Identity | CAS number | Content in percent (%)* |
|-------------------|------------|-------------------------|
| Ethylene glycol   | 107-21-1   | 50 - <100%              |

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

**Composition Comments:** The term "Hazardous Ingredients" should be interpreted as a term defined in Hazard Communication standards and does not necessarily imply the existence of a welding or allied process hazard. The product may contain additional non-hazardous ingredients or may form additional compounds under the condition of use. Refer to Sections 2 and 8 for more information.

### 4. FIRST AID MEASURES

**Ingestion:** Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

**Inhalation:** Move to fresh air if breathing is difficult. If breathing has stopped, perform artificial respiration and obtain medical assistance at once.

**Skin Contact:** Remove contaminated clothing and wash the skin thoroughly with soap and water. For reddened or blistered skin, or thermal burns, obtain medical assistance at once.

**Eye contact:** Do not rub eye. Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.

**Most important symptoms/effects, acute and delayed**  
**Symptoms:** Symptoms may be delayed.

**Hazards:** No information about adverse effects due to exposure.

**Indication of immediate medical attention and special treatment needed**

**Treatment:** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**General Fire Hazards:** No unusual fire or explosion hazards noted.

### Suitable (and unsuitable) extinguishing media

**Suitable extinguishing media:** Use fire-extinguishing media appropriate for surrounding materials.

**Unsuitable extinguishing media:** Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical:** During fire, gases hazardous to health may be formed.

### Special protective equipment and precautions for firefighters

**Special fire fighting procedures:** Use standard firefighting procedures and consider the hazards of other involved materials.

**Special protective equipment for fire-fighters:** Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** If airborne dust and/or fume is present, use adequate engineering controls and, if needed, personal protection to prevent overexposure. Refer to recommendations in Section 8.

**Methods and material for containment and cleaning up:** Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Dike far ahead of larger spill for later recovery and disposal.

**Notification Procedures:** Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk.

**Environmental Precautions:** Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.

## 7. HANDLING AND STORAGE

**Precautions for safe handling:** Do not taste or swallow. Wash hands thoroughly after handling.

**Conditions for safe storage, including any incompatibilities:** Store in closed original container in a dry place. Store in accordance with local/regional/national regulations. Store away from incompatible materials.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control Parameters

#### Occupational Exposure Limits: US

| Chemical Identity                     | Type | Exposure Limit Values | Source                                     |
|---------------------------------------|------|-----------------------|--------------------------------------------|
| Ethylene glycol - Aerosol, inhalable. | STEL | 10 mg/m3              | US. ACGIH Threshold Limit Values (03 2017) |
| Ethylene glycol - Vapor fraction      | TWA  | 25 ppm                | US. ACGIH Threshold Limit Values (03 2017) |
|                                       | STEL | 50 ppm                | US. ACGIH Threshold Limit Values (03 2017) |

|  |  |  |       |
|--|--|--|-------|
|  |  |  | 2017) |
|--|--|--|-------|

**Occupational Exposure Limits: Canada**

| Chemical Identity                     | Type    | Exposure Limit Values | Source                                                                                                                                                        |
|---------------------------------------|---------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ethylene glycol                       | CEILING | 100 mg/m3             | Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)                                                           |
| Ethylene glycol - Vapor.              | CEILING | 50 ppm                | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Ethylene glycol - Aerosol.            | CEILING | 100 mg/m3             | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Ethylene glycol - Particulate.        | TWA     | 10 mg/m3              | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
|                                       | STEL    | 20 mg/m3              | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Ethylene glycol - Aerosol.            | CEV     | 100 mg/m3             | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)                                                            |
|                                       | Ceiling | 100 mg/m3             | Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)                                                  |
| Ethylene glycol - Vapor and mist      | CEILING | 50 ppm 127 mg/m3      | Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017)                                         |
| Ethylene glycol - Vapor fraction      | STEL    | 50 ppm                | Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended (03 2017)                                                              |
| Ethylene glycol - Aerosol, inhalable. | STEL    | 10 mg/m3              | Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended (03 2017)                                                              |
| Ethylene glycol - Vapor fraction      | TWA     | 25 ppm                | Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended (03 2017)                                                              |

**Occupational Exposure Limits: Mexico**

| Chemical Identity          | Type  | Exposure Limit Values | Source                                                                                                               |
|----------------------------|-------|-----------------------|----------------------------------------------------------------------------------------------------------------------|
| Ethylene glycol - Aerosol. | VLE-P | 100 mg/m3             | Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014) |

**Appropriate Engineering Controls**

Observe Occupational Exposure Limits and minimize the risk of inhalation.

**Individual protection measures, such as personal protective equipment****General information:**

Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

**Eye/face protection:**

Wear goggles/face shield.

**Skin Protection**

|                                |                                                                                               |
|--------------------------------|-----------------------------------------------------------------------------------------------|
| <b>Hand Protection:</b>        | Wear protective gloves. Suitable gloves can be recommended by the glove supplier.             |
| <b>Other:</b>                  | No data available.                                                                            |
| <b>Respiratory Protection:</b> | In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor. |
| <b>Hygiene measures:</b>       | Do not eat, drink or smoke when using the product. Wash hands after handling.                 |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                                              |                    |
|--------------------------------------------------------------|--------------------|
| <b>Appearance:</b>                                           | No data available. |
| <b>Physical state:</b>                                       | Liquid             |
| <b>Form:</b>                                                 | Liquid             |
| <b>Color:</b>                                                | No data available. |
| <b>Odor:</b>                                                 | No data available. |
| <b>Odor threshold:</b>                                       | No data available. |
| <b>pH:</b>                                                   | No data available. |
| <b>Melting point/freezing point:</b>                         | No data available. |
| <b>Initial boiling point and boiling range:</b>              | No data available. |
| <b>Flash Point:</b>                                          | No data available. |
| <b>Evaporation rate:</b>                                     | No data available. |
| <b>Flammability (solid, gas):</b>                            | No data available. |
| <b>Upper/lower limit on flammability or explosive limits</b> |                    |
| <b>Flammability limit - upper (%):</b>                       | No data available. |
| <b>Flammability limit - lower (%):</b>                       | No data available. |
| <b>Explosive limit - upper:</b>                              | No data available. |
| <b>Explosive limit - lower:</b>                              | No data available. |
| <b>Vapor pressure:</b>                                       | No data available. |
| <b>Vapor density:</b>                                        | No data available. |
| <b>Density:</b>                                              | No data available. |
| <b>Relative density:</b>                                     | No data available. |
| <b>Solubility(ies)</b>                                       |                    |
| <b>Solubility in water:</b>                                  | No data available. |
| <b>Solubility (other):</b>                                   | No data available. |
| <b>Partition coefficient (n-octanol/water):</b>              | No data available. |
| <b>Auto-ignition temperature:</b>                            | No data available. |
| <b>Decomposition temperature:</b>                            | No data available. |
| <b>Viscosity:</b>                                            | No data available. |

## 10. STABILITY AND REACTIVITY

|                            |                                                                                    |
|----------------------------|------------------------------------------------------------------------------------|
| <b>Reactivity:</b>         | The product is non-reactive under normal conditions of use, storage and transport. |
| <b>Chemical Stability:</b> | Material is stable under normal conditions.                                        |

|                                            |                                                                                                 |
|--------------------------------------------|-------------------------------------------------------------------------------------------------|
| <b>Possibility of hazardous reactions:</b> | None under normal conditions.                                                                   |
| <b>Conditions to avoid:</b>                | Avoid heat or contamination.                                                                    |
| <b>Incompatible Materials:</b>             | Strong acids. Strong oxidizing substances. Strong bases.                                        |
| <b>Hazardous Decomposition Products:</b>   | Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. |

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

|                      |                                                                                                                                                  |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation:</b>   | Inhalation is the primary route of exposure. In high concentrations, dust, vapors, fumes or mists may irritate nose, throat and mucus membranes. |
| <b>Skin Contact:</b> | Moderately irritating to skin with prolonged exposure.                                                                                           |
| <b>Eye contact:</b>  | Eye contact is possible and should be avoided.                                                                                                   |
| <b>Ingestion:</b>    | Harmful if swallowed.                                                                                                                            |

### Symptoms related to the physical, chemical and toxicological characteristics

|                    |                    |
|--------------------|--------------------|
| <b>Inhalation:</b> | No data available. |
|--------------------|--------------------|

### Information on toxicological effects

#### Acute toxicity (list all possible routes of exposure)

##### Oral

|                                |                          |
|--------------------------------|--------------------------|
| <b>Product:</b>                | ATEmix: 909.09 mg/kg     |
| <b>Specified substance(s):</b> |                          |
| Ethylene glycol                | LD 50 (Rat): 4,700 mg/kg |

##### Dermal

|                                |                                                            |
|--------------------------------|------------------------------------------------------------|
| <b>Product:</b>                | Not classified for acute toxicity based on available data. |
| <b>Specified substance(s):</b> |                                                            |
| Ethylene glycol                | LD 50 (Rabbit): 9,530 mg/kg                                |

##### Inhalation

|                 |                                                            |
|-----------------|------------------------------------------------------------|
| <b>Product:</b> | Not classified for acute toxicity based on available data. |
|-----------------|------------------------------------------------------------|

### Repeated dose toxicity

|                 |                    |
|-----------------|--------------------|
| <b>Product:</b> | No data available. |
|-----------------|--------------------|

### Skin Corrosion/Irritation

|                 |                |
|-----------------|----------------|
| <b>Product:</b> | Not classified |
|-----------------|----------------|

### Serious Eye Damage/Eye Irritation

|                 |                |
|-----------------|----------------|
| <b>Product:</b> | Not classified |
|-----------------|----------------|

### Respiratory or Skin Sensitization

|                 |                                                                                 |
|-----------------|---------------------------------------------------------------------------------|
| <b>Product:</b> | Respiratory Sensitization: Not classified<br>Skin Sensitization: Not classified |
|-----------------|---------------------------------------------------------------------------------|

### Carcinogenicity

|                 |                |
|-----------------|----------------|
| <b>Product:</b> | Not classified |
|-----------------|----------------|

**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

No carcinogenic components identified

**US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogenic components identified

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:**

No carcinogenic components identified

**Germ Cell Mutagenicity**

**In vitro**

**Product:** Not classified

**In vivo**

**Product:** Not classified

**Reproductive toxicity**

**Product:** Not classified

**Specific Target Organ Toxicity - Single Exposure**

**Product:** Not classified

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** May cause damage to organs through prolonged or repeated exposure.

**Target Organs**

Specific Target Organ Toxicity - Repeated Exposure: Kidney

**Aspiration Hazard**

**Product:** No data available.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

**Acute hazards to the aquatic environment:**

**Fish**

**Product:** Not classified

**Specified substance(s):**

Ethylene glycol LC 50 (Pimephales promelas, 96 h): 72,860 mg/l

**Aquatic Invertebrates**

**Product:** Not classified

**Specified substance(s):**

Ethylene glycol LC 50 (Water flea (Ceriodaphnia dubia), 48 h): 19,600 - 26,500 mg/l

**Chronic hazards to the aquatic environment:**

**Fish**

**Product:** Not classified

**Aquatic Invertebrates**

**Product:** Not classified

**Toxicity to Aquatic Plants**

**Product:** No data available.

**Persistence and Degradability**

**Biodegradation**

**Product:** No data available.

**Bioaccumulative potential****Bioconcentration Factor (BCF)****Product:** No data available.**Mobility in soil:** No data available.**13. Disposal considerations**

**General information:** Dispose of waste and residues in accordance with local authority requirements.

**Disposal instructions:** Discharge, treatment, or disposal may be subject to national, state, or local laws.

**Contaminated Packaging:** Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**14. TRANSPORT INFORMATION****DOT**

UN number or ID number:  
UN Proper Shipping Name: NOT DG REGULATED  
Transport Hazard Class(es)  
Class: NR  
Label(s): —  
Packing Group: —  
Marine Pollutant: No

**IMDG**

UN number or ID number:  
UN Proper Shipping Name: NOT DG REGULATED  
Transport Hazard Class(es)  
Class: NR  
Label(s): —  
EmS No.:  
Packing Group: —  
Marine Pollutant: No

**IATA**

UN number or ID number:  
Proper Shipping Name: NOT DG REGULATED  
Transport Hazard Class(es):  
Class: NR  
Label(s): —  
Packing Group: —  
Marine Pollutant: No  
Cargo aircraft only: Allowed.

**TDG**

UN number or ID number:  
UN Proper Shipping Name: NOT DG REGULATED  
Transport Hazard Class(es)  
Class: NR  
Label(s): —  
Packing Group: —

Marine Pollutant: No

**15. REGULATORY INFORMATION****US Federal Regulations****TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

None present or none present in regulated quantities.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended**

None present or none present in regulated quantities.

**CERCLA Hazardous Substance List (40 CFR 302.4):**

| <u>Chemical Identity</u> | <u>Reportable quantity</u> |
|--------------------------|----------------------------|
| Ethylene glycol          | 5000lbs.                   |

**Superfund Amendments and Reauthorization Act of 1986 (SARA)****Hazard categories**

Immediate (Acute) Health Hazards

Delayed (Chronic) Health Hazard

Acute toxicity (any route of exposure)

Specific target organ toxicity (single or repeated exposure)

**SARA 302 Extremely Hazardous Substance**

None present or none present in regulated quantities.

**SARA 304 Emergency Release Notification**

None present or none present in regulated quantities.

**SARA 311/312 Hazardous Chemical**

| <u>Chemical Identity</u> | <u>Threshold Planning Quantity</u> |
|--------------------------|------------------------------------|
|--------------------------|------------------------------------|

**SARA 313 (TRI Reporting)**

| <u>Chemical Identity</u> | <u>Reporting threshold for other users</u> | <u>Reporting threshold for manufacturing and processing</u> |
|--------------------------|--------------------------------------------|-------------------------------------------------------------|
| Ethylene glycol          | 10000 lbs                                  | 25000 lbs.                                                  |

**Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)**

None present or none present in regulated quantities.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):**

None present or none present in regulated quantities.

**US State Regulations****US. California Proposition 65**

**WARNING:** This product can expose you to chemicals including, Ethylene glycol, which is [are] known to the State of California to cause birth defects or other reproductive harm.

For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).**US. New Jersey Worker and Community Right-to-Know Act**Chemical Identity

Ethylene glycol

Water

**US. Massachusetts RTK - Substance List**

**Chemical Identity**

Ethylene glycol

**US. Pennsylvania RTK - Hazardous Substances****Chemical Identity**

Ethylene glycol

**US. Rhode Island RTK****Chemical Identity**

Ethylene glycol

**Canada Federal Regulations****List of Toxic Substances (CEPA, Schedule 1)**

Not Regulated

**Export Control List (CEPA 1999, Schedule 3)**

Not Regulated

**National Pollutant Release Inventory (NPRI)****Canada. National Pollutant Release Inventory (NPRI) Substances, Part 5, VOCs with Additional Reporting Requirements**

NPRI PT5 Not Regulated

**Canada. National Pollutant Release Inventory (NPRI) (Schedule 1, Parts 1-4)**

NPRI Not Regulated

**Greenhouse Gases**

Not Regulated

**Controlled Drugs and Substances Act**

CA CDSI Not Regulated

CA CDSII Not Regulated

CA CDSIII Not Regulated

CA CDSIV Not Regulated

CA CDSV Not Regulated

CA CDSVII Not Regulated

CA CDSVIII Not Regulated

**Precursor Control Regulations**

Not Regulated

**Mexico. Substances subject to reporting for the pollutant release and transfer registry (PRTR):** Not applicable**Inventory Status:**

|                                          |                                                                   |
|------------------------------------------|-------------------------------------------------------------------|
| Canada DSL Inventory List:               | On or in compliance with the inventory                            |
| EINECS, ELINCS or NLP:                   | On or in compliance with the inventory                            |
| Japan (ENCS) List:                       | On or in compliance with the inventory                            |
| China Inv. Existing Chemical Substances: | On or in compliance with the inventory                            |
| Korea Existing Chemicals Inv. (KECI):    | On or in compliance with the inventory                            |
| Canada NDSL Inventory:                   | One or more components are not listed or are exempt from listing. |
| Philippines PICCS:                       | On or in compliance with the inventory                            |
| US TSCA Inventory:                       | On or in compliance with the inventory                            |
| New Zealand Inventory of Chemicals:      | On or in compliance with the inventory                            |
| Japan ISHL Listing:                      | One or more components are not listed or are exempt from listing. |

|                                      |                                                                   |
|--------------------------------------|-------------------------------------------------------------------|
| Japan Pharmacopoeia Listing:         | One or more components are not listed or are exempt from listing. |
| Mexico INSQ:                         | On or in compliance with the inventory                            |
| Ontario Inventory:                   | On or in compliance with the inventory                            |
| Taiwan Chemical Substance Inventory: | On or in compliance with the inventory                            |
| Australia AICS:                      | One or more components are not listed or are exempt from listing. |

**16. OTHER INFORMATION****Definitions:**

**Revision Date:** 10/18/2021

**Further Information:** Additional information is available by request.

**Disclaimer:** The Lincoln Electric Company urges each end user and recipient of this SDS to study it carefully. See also [www.lincolnelectric.com/safety](http://www.lincolnelectric.com/safety). If necessary, consult an industrial hygienist or other expert to understand this information and safeguard the environment and protect workers from potential hazards associated with the handling or use of this product. This information is believed to be accurate as of the revision date shown above. However, no warranty, expressed or implied, is given. Because the conditions or methods of use are beyond Lincoln Electric's control, we assume no liability resulting from the use of this product. Regulatory requirements are subject to change and may differ between various locations. Compliance with all applicable Federal, State, Provincial, and local laws and regulations remain the responsibility of the user.

© 2021 Lincoln Global, Inc. All Rights Reserved.