

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Low Conductivity Coolant

Other means of identification SDS number: 20000003016

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.

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 Arc Welding Safety Information: 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

Hazard Classification Health Hazards

Category 4
Category 2

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:	Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/mist/vapors/spray.
Response:	IF SWALLOWED: Call a POISON CENTRE/doctor/ if you feel unwell. Rinse mouth. Get medical advice/attention if you feel unwell.
Disposal:	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.
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 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, Symptoms:	acute and delayed 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 Special fire fighting procedures:	precautions for firefighters 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	Туре	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)

Occupational Exposure Limits: Canada

	Chemical Identity	Туре	Exposure Limit Values	Source
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Ethylene glycol	CEILING		100 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (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) (11 2010)
	Ceiling		100 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)
Ethylene glycol - Vapor and mist	CEILING	50 ppm	127 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Ethylene glycol - Vapor fraction	STEL	50 ppm		Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act) (03 2017)
Ethylene glycol - Aerosol, inhalable.	STEL		10 mg/m3	Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act) (03 2017)
Ethylene glycol - Vapor fraction	TWA	25 ppm		Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act) (03 2017)

Occupational Exposure Limits: Mexico

	Chemical Identity	Туре	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) (04 2014)	
Appropriate Engineering Controls		Observ	e Occupational Exposure Limits	and minimize the risk of inhalation.	
Individual protection measures, s General information:		Use pe equipm	such as personal protective equipment 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 g	Wear goggles/face shield.		
Skin Protection Hand Protection:		•	Wear protective gloves. Suitable gloves can be recommended by the glove supplier.		
Othe	r:	No data	No data available.		
Resp	biratory Protection:	In case of inadequate ventilation use suitable respirator. Seek advice from			



local supervisor.

Hygiene measures:	Do not eat, drink or smoke when using the product. Wash hands after
	handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

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

10. STABILITY AND REACTIVITY

Reactivity:	The product is non-reactive under normal conditions of use, storage and transport.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	None under normal conditions.
Conditions to avoid:	Avoid heat or contamination.
Incompatible Materials:	Strong acids. Strong oxidizing substances. Strong bases.



Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.	
11. TOXICOLOGICAL INFORM	ATION	
Information on likely routes of ex Inhalation:	posure Inhalation is the primary route of exposure. In high concentrations, dust, vapors, fumes or mists may irritate nose, throat and mucus membranes.	
Skin Contact:	Moderately irritating to skin with prolonged exposure.	
Eye contact:	Eye contact is possible and should be avoided.	
Ingestion:	Harmful if swallowed.	
Symptoms related to the physica	I, chemical and toxicological characteristics	
Inhalation:	No data available.	
Information on toxicological effects Acute toxicity (list all possible routes of exposure) Oral		
Product: Specified substance(s):	ATEmix: 909.09 mg/kg	
Ethylene glycol	LD 50 (Rat): 4,700 mg/kg	
Dermal Product: Specified substance(s):	Not classified for acute toxicity based on available data.	
Ethylene glycol	LD 50 (Rabbit): 9,530 mg/kg	
Inhalation Product:	Not classified for acute toxicity based on available data.	
Repeated dose toxicity Product:	No data available.	
Skin Corrosion/Irritation Product:	Not classified	
Serious Eye Damage/Eye Irritation Product:	Not classified	
Respiratory or Skin Sensitization Product:	Respiratory Sensitization: Not classified Skin Sensitization: Not classified	
Carcinogenicity Product:	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):



No carcinogenic components identified

Not classified
Not classified
ty Not classified
oxicity - Single Exposure Not classified
Toxicity - Repeated Exposure May cause damage to organs through prolonged or repeated exposure.
gan Toxicity - Repeated Exposure: Kidney
No data available.

12. ECOLOGICAL INFORMATION

Ecotoxicity Acute hazards to the aquatic environment: Fish			
Product: Specified substance(s):	Not classified		
Ethylene glycol	LC 50 (Pimephales promelas, 96 h): 72,860 mg/l		
Aquatic Invertebrates Product: Specified substance(s):	Not classified		
Ethylene glycol	LC 50 (Water flea (Ceriodaphnia dubia), 48 h): 19,600 - 26,500 mg/l		
Chronic hazards to the aquation Fish	c environment:		
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 (BC Product:	F) 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: UN Proper Shipping Name: Transport Hazard Class(es) Class: Label(s): Packing Group: Marine Pollutant:	NOT DG REGULATED NR – – No
IMDG UN Number: UN Proper Shipping Name: Transport Hazard Class(es) Class: Label(s): EmS No.: Packing Group: Marine Pollutant:	NOT DG REGULATED NR - No
IATA UN Number: Proper Shipping Name: Transport Hazard Class(es): Class: Label(s): Packing Group: Marine Pollutant: Cargo aircraft only:	NOT DG REGULATED NR - No Allowed.
TDG UN Number: UN Proper Shipping Name: Transport Hazard Class(es) Class: Label(s): Packing Group: Marine Pollutant:	NOT DG REGULATED NR - - No

15. REGULATORY INFORMATION

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)



None present or none prese	nt in regulated quantities.		
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) None present or none present in regulated quantities.			
CERCLA Hazardous Substance List (4	0 CFR 302.4):		
Chemical Identity Ethylene glycol	Reportable quantity 5000lbs.		
Superfund Amendments and Reautho Hazard categories Immediate (Acute) Health Hazards Delayed (Chronic) Health Hazard Acute toxicity (any route of exposure Specific target organ toxicity (single of)		
SARA 302 Extremely Hazardous Substance None present or none present in regulated quantities.			
SARA 304 Emergency Release No Chemical Identity Ethylene glycol	tification <u>Reportable quantity</u> 5000 lbs.		
SARA 311/312 Hazardous Chemica Chemical Identity Ethylene glycol	al <u>Threshold Planning (</u> 10000 lbs	Quantity	
SARA 313 (TRI Reporting)	Reporting threshold	Reporting threshold for	
<u>Chemical Identity</u> Ethylene glycol	for other users 10000 lbs	manufacturing and processing 25000 lbs.	
Clean Water Act Section 311 Haza None present or none prese		117.3)	
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			
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R	eproductive Harm - www.P65	Warnings.ca.gov	
US. New Jersey Worker and Community Right-to-Know Act <u>Chemical Identity</u> Ethylene glycol			
US. Massachusetts RTK - Substance I Chemical Identity Ethylene glycol	List		
US. Pennsylvania RTK - Hazardous Su Chemical Identity Ethylene glycol	ubstances		



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 Pollu NPRI	tant Release Inventory (NPRI) (Schedule 1, Parts 1-4) Not Regulated		
Greenhouse Gases Not Regulated			
Controlled Drugs and Subs	stances Act 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 Regulati Not Regulated	ions		

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

Inventory Status:

Australia AICS:	On or in compliance with the inventory
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



16. OTHER INFORMATION

Dofi	niti	ons:	
Dell		UII3 .	

Revision Date:	10/04/2018
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. 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.

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