

# SAFETY DATA SHEET

#### 1. Identification

Product identifier Coolant/Lubricant

Other means of identification

SDS number 06117

Part Number 812-530, 812-530-HAZ, 812-531, 812-531-HAZ, 812-532, 812-532-HAZ, 812-532-500,

812-532-500-HAZ

Recommended use Matalworking Fluid

**Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

**Supplier** 

Company name LECO Corporation

Address 3000 Lakeview Avenue
St. Joseph, MI 49085

**United States** 

Telephone269-983-5531Websitewww.leco.comE-mailinfo@leco.com

Emergency phone number Chemtrec: 800-424-9300

Chemtrec Int'l: 703-527-3887

## 2. Hazard(s) identification

Physical hazardsCorrosive to metalsCategory 1Health hazardsSkin corrosion/irritationCategory 2Serious eye damage/eye irritationCategory 2

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements



Signal word Warning

Hazard statement May be corrosive to metals. Causes skin irritation. Causes serious eye irritation. May cause

respiratory irritation.

**Precautionary statement** 

**Prevention** Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing

dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Contaminated work clothing

should not be allowed out of the workplace. Avoid release to the environment.

Response IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. IF IN

EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF

SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a poison center/doctor if you feel unwell. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Take off

contaminated clothing and wash before reuse.

Storage Keep container tightly closed. Protect from sunlight. Store in a well ventilated place. Store away

from incompatible materials. Store in accordance with local/regional/national regulations.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Material name: Coolant/Lubricant SDS US

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

4.01% of the mixture consists of component(s) of unknown acute oral toxicity.

## 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
TRIETHANOL AMINE		102-71-6	7 - 13
HEXAHYDRO-1,3,5-TRIS(2-HYDR OXYETHYL)-S-TRIAZINE		4719-04-4	1 - 5
MONOETHANOLAMINE		141-43-5	1 - 5
N-BUTYLETHANOLAMINE		111-75-1	1 - 5
nonanoic acid		112-05-0	1 - 5
Dodecanedioic acid		693-23-2	0.5 - 1.5
Other components below reportable levels	9	N/A	60 - 100

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

## 4. First-aid measures

Inhalation If symptoms are experienced, remove source of contamination or move victim to fresh air. Under

normal conditions of intended use, this material is not expected to be an inhalation hazard.

Skin contact Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing

and shoes. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing

before reuse.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Direct contact with eyes may cause temporary irritation. Symptoms may include stinging, tearing,

Rinse mouth thoroughly. Do not induce vomiting. If vomiting occurs, keep head low so that Ingestion

stomach content doesn't get into the lungs. Get medical attention if symptoms occur.

redness, swelling, and blurred vision. Skin irritation. Defatting of the skin.

Most important

symptoms/effects, acute and

delaved

Indication of immediate medical attention and special treatment needed

General information

Provide general supportive measures and treat symptomatically. Symptoms may be delayed.

IF exposed or concerned: Get medical advice/attention.

#### 5. Fire-fighting measures

Suitable extinguishing media Carbon dioxide (CO2). Foam. Water fog. Dry chemicals. Dry chemical powder. Use

fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media

Not applicable, non-combustible.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment

and precautions for firefighters

Wear suitable protective equipment.

Fire fighting

equipment/instructions

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk.

Specific methods In the event of fire and/or explosion do not breathe fumes.

General fire hazards No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Personal precautions. protective equipment and emergency procedures

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

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# Methods and materials for containment and cleaning up

Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Absorb in vermiculite, dry sand or earth and place into containers.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

#### **Environmental precautions**

Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

#### Precautions for safe handling

Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Do not ingest. Do not get this material on clothing. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Avoid prolonged and repeated contact. Use only in well-ventilated areas. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash thoroughly after handling. Wash contaminated clothing before reuse. Practice good housekeeping. Handle and open container with care. Do not empty into drains.

# Conditions for safe storage, including any incompatibilities

To maintain product quality, do not store in heat or direct sunlight. Use care in handling/storage. Keep container tightly closed. Keep away from food, drink and animal feedingstuffs. Store away from incompatible materials (see Section 10 of the SDS). Store in a well-ventilated place. Room temperature - normal conditions. Do not allow material to freeze. Product may separate if frozen. Thaw completely at room temperature and stir thoroughly prior to use.

# 8. Exposure controls/personal protection

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

#### Occupational exposure limits

Components	Туре	Value	
MONOETHANOLAMINE (CAS 141-43-5)	PEL	6 mg/m3	
		3 ppm	
<b>US. ACGIH Threshold Limit Values</b>	6		
Components	Туре	Value	
MONOETHANOLAMINE (CAS 141-43-5)	STEL	6 ppm	
,	TWA	3 ppm	
TRIETHANOL AMINE (CAS 102-71-6)	TWA	5 mg/m3	
US. NIOSH: Pocket Guide to Chem	nical Hazards		
Components	Туре	Value	
MONOETHANOLAMINE (CAS 141-43-5)	STEL	15 mg/m3	

Biological limit values
Appropriate engineering controls

No biological exposure limits noted for the ingredient(s).

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

6 ppm

8 mg/m3 3 ppm

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles). Do not get in eyes.

**TWA** 

Skin protection

**Hand protection** Nitrile gloves are recommended.

Other Wear suitable protective clothing and gloves.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

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Material name: Coolant/Lubricant

General hygiene considerations

When using, do not eat, drink or smoke. Do not get in eyes, on skin, on clothing. 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.

# 9. Physical and chemical properties

Appearance Clear.
Physical state Liquid.
Form Liquid.

ColorNot available.OdorChemical.Odor thresholdNot available.pH10 estimated

Melting point/freezing point  $< 28 \, ^{\circ}\text{F} \ (< -2.22 \, ^{\circ}\text{C})$  estimated Initial boiling point and boiling  $> 212 \, ^{\circ}\text{F} \ (> 100 \, ^{\circ}\text{C})$  estimated

range

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Relative density Not available.

Solubility(ies)

Solubility (water) 100 %

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

Other information

Miscible (water) 100 % pH in aqueous solution 9 @ 5%

Specific gravity 1.05 estimated VOC (Weight %) 10 % (ASTM D2369)

# 10. Stability and reactivity

**Reactivity**May be corrosive to metals. The product is stable and non-reactive under normal conditions of

use, storage and transport.

**Chemical stability** Material is stable under normal conditions.

Possibility of hazardous

No dangerous reaction known under conditions of normal use.

Conditions to avoid

Contact with incompatible materials.

**Incompatible materials**Do not add sodium nitrite or other nitrosating agents which may form cancer causing nitrosamines.

Strong oxidizing agents. Avoid contact with acids and oxidizing substances.

**Hazardous decomposition** 

products

reactions

smoke. Oxides of nitrogen. Carbon oxides.

Material name: Coolant/Lubricant

# 11. Toxicological information

Information on likely routes of exposure

Inhalation May cause irritation to the respiratory system. Prolonged inhalation may be harmful.

Skin contact Causes skin irritation. Frequent or prolonged contact may defat and dry the skin, leading to

discomfort and dermatitis.

**Eve contact** Causes serious eye irritation.

May be harmful if swallowed. Expected to be a low ingestion hazard. Ingestion

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation. Symptoms may include stinging, tearing,

8 g/kg

redness, swelling, and blurred vision. Skin irritation. Defatting of the skin.

Information on toxicological effects

May cause respiratory irritation. Acute toxicity

Components	Species	Test Results
MONOETHANOLAMINE (	CAS 141-43-5)	
<u>Acute</u>		
Dermal		
LD50	Rabbit	1025 mg/kg
Oral		
LD50	Guinea pig	620 mg/kg
	Mouse	700 mg/kg
	Rat	10.2 g/kg
nonanoic acid (CAS 112-0	95-0)	
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 5000 mg/kg
Oral		
LD50	Mouse	15000 mg/kg
TRIETHANOL AMINE (CA	S 102-71-6)	
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 20000 mg/kg
Oral		
LD50	Guinea pig	5300 mg/kg

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Rat

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation. Defatting, drying and cracking of skin.

Serious eye damage/eye

irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Respiratory sensitization Not available. Skin sensitization Not available.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

TRIETHANOL AMINE (CAS 102-71-6) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

US. National Toxicology Program (NTP) Report on Carcinogens

Not available.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Material name: Coolant/Lubricant

Specific target organ toxicity -

single exposure

May cause respiratory irritation.

Specific target organ toxicity -

repeated exposure

Not classified.

May be harmful if swallowed and enters airways. **Aspiration hazard** Prolonged exposure may cause chronic effects. **Chronic effects** 

# 12. Ecological information

**Ecotoxicity** Contains a substance which causes risk of hazardous effects to the environment.

Components		Species	Test Results
MONOETHANOLAMINE	(CAS 141-43-5)		
Aquatic			
Fish	LC50	Rainbow trout, donaldson trout (Oncorhynchus mykiss)	114 - 196 mg/l, 96 hours
nonanoic acid (CAS 112-	05-0)		
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	93.4 - 115 mg/l, 96 hours
TRIETHANOL AMINE (CA	AS 102-71-6)		
Aquatic			
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	565.2 - 658.3 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	10610 - 13010 mg/l, 96 hours

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

MONOETHANOLAMINE -1.31 nonanoic acid 3.42 TRIETHANOL AMINE -1

Mobility in soil No data available.

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation Other adverse effects

potential, endocrine disruption, global warming potential) are expected from this component.

# 13. Disposal considerations

**Disposal instructions** Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Empty containers or liners may retain some product residues. This material and its container must

be disposed of in a safe manner.

Empty containers should be taken to an approved waste handling site for recycling or disposal. Contaminated packaging

# 14. Transport information

DOT

**UN** number UN3267

**UN** proper shipping name Corrosive liquid, basic, organic, n.o.s. (MONOETHANOLAMINE, TRIETHANOLAMINE)

Transport hazard class(es)

Class 8 Subsidiary risk 8 Label(s) Ш **Packing group** 

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Supplemental Information: This concentrate product is corrosive to Aluminum only. Per 49 CFR 173.154 (d) (1) - Except for hazardous substance, a hazardous waste, or a marine pollutant, a material classed as a Class 8, Packing Group III, material solely because of its corrosive effect on Aluminum is not subject to any other requirements of this subchapter when transported by motor vehicle or rail car in a packaging constructed of materials that will not react dangerously with or be degraded by the corrosive material.

Material name: Coolant/Lubricant SDS US

#### IATA

UN number UN3267

**UN proper shipping name** Corrosive liquid, basic, organic, n.o.s. (MONOETHANOLAMINE, TRIETHANOLAMINE)

Transport hazard class(es)

Class 8
Subsidiary risk Packing group III
ERG Code 8L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

**IMDG** 

UN number UN3267

UN proper shipping name CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (MONOETHANOLAMINE,

TRIETHANOLAMINE)

Transport hazard class(es)

Class 8
Subsidiary risk Packing group III

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

#### DOT



#### IATA; IMDG



## 15. Regulatory information

**US federal regulations**This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

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

HEXAHYDRO-1,3,5-TRIS(2-HYDROXYETHYL)-S-TRIAZI 1.0 % One-Time Export Notification only.

NE (CAS 4719-04-4)

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

Material name: Coolant/Lubricant sps us

## SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes

chemical

#### SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

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

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

## **US state regulations**

# US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

#### US. Massachusetts RTK - Substance List

MONOETHANOLAMINE (CAS 141-43-5) TRIETHANOL AMINE (CAS 102-71-6)

#### US. New Jersey Worker and Community Right-to-Know Act

MONOETHANOLAMINE (CAS 141-43-5) TRIETHANOL AMINE (CAS 102-71-6)

#### US. Pennsylvania Worker and Community Right-to-Know Law

MONOETHANOLAMINE (CAS 141-43-5) TRIETHANOL AMINE (CAS 102-71-6)

#### **US. Rhode Island RTK**

Not regulated.

## **US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### **International Inventories**

Country(s) or region

Country(s) or region	niventory name	On inventory (yes/no)
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

## 16. Other information, including date of preparation or last revision

Inventory name

 Issue date
 04-28-2014

 Revision date
 11-12-2015

Version # 04

Material name: Coolant/Lubricant sps us

On inventory (yes/no)\*

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Supplier cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

Material name: Coolant/Lubricant sps us