

# **Safety Data Sheet**

Issue Date: 25-Mar-2013 Revision/Review Date: 09-Dec-2019 Version 1.1

# 1. IDENTIFICATION

**Product Identifier** 

Product Name Thunder & Lightning

Other Means of Identification

Product Code 062800

Recommended use of the Chemical and Restrictions on Use

**Recommended Use** Degreaser cleaner concentrate. For industrial use.

**Details of the Supplier of the Safety Data Sheet** 

Midlab, Inc. 140 Private Brand Way Athens, TN 37303

**Emergency Telephone Number** 

Company Phone Number Phone: 1-423-337-3180

Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

# 2. HAZARDS IDENTIFICATION

Appearance Yellow Physical State Liquid Odor Citrus

# Classification

Skin corrosion/irritation	Category 3
Serious eye damage/eye irritation	Category 2 Sub-Category A

### Signal Word Warning

### **Hazard Statements**

Causes mild skin irritation. Causes serious eye irritation.

# **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling.

Wear eye protection/face protection.

# <u>Precautionary Statements - Response</u>

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 ON SKIN: If skin irritation occurs: get medical advice/attention.

### <u>Precautionary Statements - Storage</u>

No other means specified.

#### **Precautionary Statements - Disposal**

No other means specified.



# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Water	7732-18-5	60-100
Ethylene Glycol Monobutyl Ether	111-76-2	5-10
Tetrapotassium Pyrophosphate	7320-34-5	1-5
Monoethanolamine	141-43-5	1-5
Trisodium Nitrilotriacetate Monohydrate	18662-53-8	1-5

<sup>\*\*</sup>If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

### 4. FIRST-AID MEASURES

#### **First Aid Measures**

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek

medical attention/advice if irritation persists.

Skin Contact Wash with soap and water. Take off contaminated clothing. Wash contaminated clothing

before reuse.

**Inhalation** Remove to fresh air. Seek immediate medical attention/advice.

**Ingestion** Rinse mouth. Do not induce vomiting. Drink plenty of water. Seek medical advice.

#### Most important Symptoms and Effects

Symptoms Exposed individuals may experience eye tearing, redness and discomfort. Contact may

cause irritation and redness.

# Indication of any Immediate Medical Attention and Special Treatment Needed

Notes to Physician Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

Water spray (fog). Carbon dioxide (CO2). Dry chemical. Foam.

### Unsuitable Extinguishing Media

Not determined.

### **Specific Hazards Arising from the Chemical**

None known.

# Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

# 6. ACCIDENTAL RELEASE MEASURES

# Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions Use personal protection recommended in Section 8.

**Environmental Precautions**Avoid release to the environment.

#### Methods and Material for Containment and Cleaning Up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up

Collect in a clean, dry waste container for disposal. Dispose of in accordance with federal, state and local regulations. Use a water rinse for final clean up.

# 7. HANDLING AND STORAGE

**Precautions for Safe Handling** 

Advice on Safe Handling Wash thoroughly after handling. Use personal protection recommended in Section 8. Do

not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with eyes. Handle in

accordance with good industrial hygiene and safety practice.

Conditions for Safe Storage, including any Incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep locked up and

out of reach of children. Protect from freezing.

**Incompatible Materials** Acids.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethylene Glycol Monobutyl Ether 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m³ (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m³ (vacated) S* S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m³
Monoethanolamine 141-43-5	STEL: 6 ppm TWA: 3 ppm	TWA: 3 ppm TWA: 6 mg/m³ (vacated) TWA: 3 ppm (vacated) TWA: 8 mg/m³ (vacated) STEL: 6 ppm (vacated) STEL: 15 mg/m³	IDLH: 30 ppm TWA: 3 ppm TWA: 8 mg/m³ STEL: 6 ppm STEL: 15 mg/m³

### **Appropriate Engineering Controls**

**Engineering Controls** General ventilation sufficient.

Individual Protection Measures, such as Personal Protective Equipment

**Eye/Face Protection** Splash goggles or safety glasses.

Skin and Body Protection Chemical resistant protective gloves.

**Respiratory Protection** Ensure adequate ventilation, especially in confined areas.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on Basic Physical and Chemical Properties

**Physical State** Liquid **Appearance** Clear

Odor Citrus

Color Yellow **Odor Threshold** Not determined

**Property** <u>Values</u> Remarks • Method

рΗ 12.5-13.0 **Melting Point/Freezing Point**  $\sim$  0 °C /  $\sim$ 32 °F **Boiling Point/Boiling Range** 100 °C / 212 °F **Flash Point** Not applicable **Evaporation Rate** Not determined Flammability (Solid, Gas) n/a-liquid

**Upper Flammability Limits** Not determined **Lower Flammability Limit** Not determined **Vapor Pressure** Not determined **Vapor Density** Not determined

**Specific Gravity** 1.04

Water Solubility Completely soluble @ 25 °C (77 °F)

Solubility in other solvents Not determined **Partition Coefficient** Not determined **Auto-ignition Temperature** Not determined **Decomposition Temperature** Not determined **Kinematic Viscosity** Not determined Not determined **Dynamic Viscosity Explosive Properties** Not determined **Oxidizing Properties** Not determined

# 10. STABILITY AND REACTIVITY

# Reactivity

Not reactive under normal conditions.

### **Chemical Stability**

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

#### **Conditions to Avoid**

Keep out of reach of children. Keep from freezing.

#### **Incompatible Materials**

Acids.

# **Hazardous Decomposition Products**

When exposed to fire, produces normal products of combustion.

# 11. TOXICOLOGICAL INFORMATION

### Information on Likely Routes of Exposure

## **Product Information**

**Eye Contact** Causes serious eye irritation

**Skin Contact** May cause skin irritation.

Inhalation Avoid breathing vapors or mists.

Ingestion Do not taste or swallow.

Component Information

Component information			
Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Ethylene Glycol Monobutyl Ether 111-76-2	= 470 mg/kg (Rat)	= 2270 mg/kg (Rat) = 220 mg/kg (Rabbit)	= 2.21 mg/L (Rat) 4 h = 450 ppm (Rat) 4 h
Tetrapotassium Pyrophosphate 7320-34-5	2980mg/kg (Rat)	>7940mg/kg (Rabbit)	-
Monoethanolamine 141-43-5	= 1720 mg/kg ( Rat )	= 1 mL/kg ( Rabbit ) = 1025 mg/kg ( Rabbit )	-
Trisodium Nitrilotriacetate Monohydrate 18662-53-8	= 1450 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	-

# Information on Physical, Chemical and Toxicological Effects

**Symptoms** 

Please see section 4 of this SDS for symptoms.

# Delayed and Immediate Effects as well as Chronic Effects from Short and Long-Term Exposure

**Carcinogenicity** Not classifiable as a human carcinogen.

		•		
Chemical Name	ACGIH	IARC	NTP	OSHA
Ethylene Glycol Monobutyl				
Ether	A3	Group 3		
111-76-2		•		
Trisodium Nitrilotriacetate				
Monohydrate		X	Χ	
18662-53-8				

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 3 IARC components are "not classifiable as human carcinogens"

IARC (International Agency for Research on Cancer)

"Possibly carcinogenic to humans"

NTP (National Toxicological Program)

# **Numerical Measures of Toxicity**

Not determined

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Ethylene Glycol Monobutyl Ether 111-76-2	-	1490: 96 h Lepomis macrochirus mg/L LC50 static 2950: 96 h Lepomis macrochirus mg/L LC50	-	1698 - 1940: 24 h Daphnia magna mg/L EC50 1000: 48 h Daphnia magna mg/L EC50
Tetrapotassium Pyrophosphate 7320-34-5	-	> 100 mg/L (96hr) Rainbow Trout	-	-
Monoethanolamine 141-43-5	15: 72 h Desmodesmus subspicatus mg/L EC50	227: 96 h Pimephales promelas mg/L LC50 flow-through 3684: 96 h Brachydanio rerio mg/L LC50 static 300 - 1000: 96 h Lepomis macrochirus mg/L LC50 static 114 - 196: 96 h Oncorhynchus mykiss mg/L LC50 static 200: 96 h Oncorhynchus mykiss mg/L LC50 flow-through	-	65: 48 h Daphnia magna mg/L EC50
Trisodium Nitrilotriacetate Monohydrate 18662-53-8	= 780 mg/L (96hr) Chlorella vulgaris	= 98 mg/L (96hr) Oncorhynchus mykiss	-	= 780 mg/L (48hr) Daphnia mahna

### Persistence/Degradability

Not determined.

### Bioaccumulation

Not determined.

# **Mobility**

Chemical Name	Partition Coefficient
Ethylene Glycol Monobutyl Ether 111-76-2	0.81
Monoethanolamine 141-43-5	-1.91

### **Other Adverse Effects**

Not determined

<sup>&</sup>quot;May reasonably be anticipated to be" carcinogenic

# 13. DISPOSAL CONSIDERATIONS

# **Waste Treatment Methods**

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and

regulations.

# 14. TRANSPORT INFORMATION

**DOT** Not regulated

IATA Not regulated

IMDG Not regulated

# 15. REGULATORY INFORMATION

### **NOT FOR SALE IN CALIFORNIA**

#### **International Inventories**

Canada – Domestic Substances List (DSL) TSCA (Toxic Substances Control Act) All ingredients are listed or exempt. All ingredients are listed or exempt.

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#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

# US Federal Regulations

# SARA 311/312 Hazard Categories

Acute Health Hazard Yes

# **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Ethylene Glycol Monobutyl Ether	111-76-2	1-5	1.0

# **US State Regulations**

### U.S. State Right-to-Know Regulations

Chemical Name	State List
Ethylene Glycol Monobutyl Ether 111-76-2	MA, NJ, PA
Monoethanolamine 141-43-5	MA, NJ, PA
Trisodium Nitrilotriacetate Monohydrate 18662-53-8	CAP65

AZ - Arizona Ambient Air Quality Guidelines IL - Illinois Toxic Air Contaminate- Carcinogenic

CT - Connecticut Hazardous Air Pollutants MA - Massachusetts Right to Know List

CA - California Director's List of Hazardous Substances MN - Minnesota Hazardous Substances List NJ

CAP65 - California Prop 65 - New Jersey Right to Know List

FL - Florida Substances List PA - Pennsylvania Right to Know List

ID - Idaho Non-Carcinogen Toxic Air Pollutants RI - Rhode Island Hazardous Substances List

# **16. OTHER INFORMATION**

NFPA **Health Hazards** Flammability Instability **Special Hazards** Not determined Not determined Not determined Not determined **Health Hazards Flammability Physical Hazards Personal Protection** HMIS Not determined 0

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**Revision Note:** Version 1.1 Updated Section 15

#### **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.

Keep Out of Reach of Children. For Industrial and Institutional Use Only.

\*Denotes changes from last version.

**End of Safety Data Sheet**