

Issue Date: 05-Sep-2014

Revision Date: 05-Mar-2019

Version Number: 1.2

1. Identification

Product Identifiers

Product Name: Eaglite NDT Liquid

Product Number: E-503116, E-503137, E-503138

Recommended Use & Restrictions on Use

Industrial non-destructive testing fluid

Manufacturer/Supplier

Kingscote Chemicals, Inc.
3334 South Tech Blvd.
Miamisburg, OH 45342
U.S.A.

Emergency Telephone Number

Company Telephone Number: (937) 886-9100

Emergency Telephone (24 hr): INFOTRAC (800) 535-5053 (North America)
+1-352-323-3500 (International)

2. Hazards Identification

Classification

Category 1B

Reproductive toxicity

Signal Word

Danger

Hazard Statements

Contains corrosive material. May cause irritation to skin, eyes, and respiratory tract

Combustible liquid.

Causes severe skin burns and eye damage.

Harmful if swallowed, in contact with skin or if inhaled.

May cause respiratory irritation.

May damage fertility of an unborn child



Precautionary Statements

Wear protective gloves/protective clothing/eye protection/face protection

Do not breathe fume/gas/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

Wash exposed skin thoroughly after handling.

Do not eat, drink or smoke when using this product.

Do not handle until all safety precautions have been read and understood
 Use personal protective equipment as required
 If exposed or concerned: get medical advice/attention
 Store locked up
 Dispose of contents/container to an approved waste disposal plant

Hazard Not Otherwise Classified (HNOC)

Breathing vapors and mists may cause damage to the respiratory tract.

3. Composition/Information on Ingredients

Chemical Name	CAS #	Weight %
Triethanolamine	102-71-6	5 - 10
2-aminoethanol (MEA)	141-43-5	

**If Chemical Name/CAS # 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

General Advice	If exposed or concerned: Get medical advice/attention
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists: Get medical advice/attention.
Skin Contact	Wash thoroughly with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
Inhalation	Remove to fresh air. If breathing is difficult, administer oxygen; seek medical attention immediately.
Ingestion	Rinse mouth. DO NOT induce vomiting without medical advice. Get medical attention.

Most Important Symptoms and Effects

Symptoms	May be irritating to skin and eyes. May be irritating to the mouth, throat, and stomach. May be irritating to respiratory tract.
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Indication of Any Immediate Medical Attention and Special Treatment Needed

Notes to Physician	Treat symptomatically.
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5. Fire-Fighting Measures

Suitable Extinguishing Media

Foam or dry chemical.

Unsuitable Extinguishing Media

Not determined

Specific Hazards Arising from the Chemical

Corrosive and combustible liquid. Product can burn if heated (Flash point = 86 - 94°C (186 - 201°F)).

Can form explosive mixtures with air at, or above, 86° C. Hazardous decomposition may occur above 200°C. During a fire, smoke may contain vaporized MEA in addition to unidentified toxic and/or irritating compounds.

Combustion products may include toxic nitrogen oxide, hydrogen cyanide, formaldehyde carbon monoxide, carbon dioxide and ammonia gases. Vapor is heavier than air and can accumulate in confined spaces and low areas.

Protective Equipment and Precautions for Firefighters

Evacuate the area and fight fire from a safe distance or a protected location. Thermal decomposition products such as nitrogen oxides and hydrogen cyanide are hazardous to health.

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	Isolate the area; keep all unprotected people away from the spill area. Use personal protective equipment as required.
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Environmental Precautions	Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12 and Section 13.
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Methods and Material for Containment and Cleaning Up

Methods for Containment	Prevent further leakage or spillage if safe to do so.
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Methods for Cleaning Up	Contain and collect with an inert absorbent and place into an appropriate labeled container for disposal.
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7. Handling and Storage

Precautions for Safe Handling

Advice on Safe Handling	Handle in accordance with good industrial hygiene and safety practices. Use personal protection recommended in Section 8. Avoid contact with skin, eyes, or clothing. Wash face, hands, and any exposed skin thoroughly after handling. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
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Conditions for Safe Storage, Including Incompatibilities

Storage Conditions	Keep container tightly closed and store in a cool, dry, and well-ventilated area. Store locked up. Do not store with strong acids and/or strong oxidants.
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Incompatible Materials	None known based on information supplied.
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8. Exposure Controls / Personal Protection

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Triethanolamine 102-71-6	TWA: 5 mg/m ³	-	-
Boric Acid 10043-35-3	TWA: 2 mg/m ³ inhalable fraction	-	-
Monoethanolamine 141-43-5	TWA: 8-hr., 3 ppm	TWA: 8-hr., 3 mg/m ³	-

Engineering Controls

Ensure adequate ventilation, especially in confined areas. Eyewash stations. Showers.

Individual Protection Measures, Such as Personal Protective Equipment:

Eye/Face Protection	Wear eye/face protection.
Skin & Body Protection	Wear protective gloves and protective clothing.
Respiratory Protection	Ensure adequate ventilation, especially in confined areas.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practices.

9. Physical and Chemical Properties

Information on Basic Physical and Chemical Properties

Physical State	Liquid	Odor	Bland
Appearance	Green-yellow liquid	Odor Threshold	Not determined
Color	Green-yellow		

<u>Property</u>	<u>Values</u>
pH	7.5 – 8.5
Melting/Freezing Point	~32° F
Boiling Point/Range	~219° F
Flash Point	Not applicable
Evaporation Rate	Not applicable
Flammability (solid, gas)	Liquid – not applicable
Upper Flammability Limits	Not applicable
Lower Flammability Limits	Not applicable
Vapor Pressure	Not applicable
Vapor Density	Not applicable
Relative Density	Not applicable
Specific Gravity	1.04
Solubility	Highly soluble in water
Partition Coefficient	Not determined
Auto-ignition Temperature	Not determined
Decomposition Temperature	Not determined
Viscosity	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.

Incompatible Materials

None known based on information supplied.

Hazardous Decomposition Products

Decomposition products may include nitrogen oxides, ammonia, irritating aldehydes and ketones.

11: Toxicological Information

Information on Likely Routes of Exposure

Inhalation	Avoid breathing vapors or mists.
Ingestion	Do not ingest.
Skin Contact	Avoid contact with skin.
Eye Contact	Avoid contact with eyes.

Delayed, Immediate, and Chronic Effects from Short- and Long-Term Exposure

May damage fertility or the unborn child.

Numerical Measures of Toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Triethanolamine 102-71-6	= 4190 mg/kg (rat)	> 2000 mg/kg (rabbit)	-
Boric Acid 10043-35-3	=2660 mg/kg (rat)	> 2000 mg/kg (rabbit)	> 0.16 mg/L (rat)
Diethanolamine (DEA)	= 680 (rabbit)	= 8 180 (rabbit)	-
Monoethanolamine 141-43-5	=1720 mg/kg (rat)	= 1000 mg/kg (rabbit)	-

Symptoms Associated with Exposure

See Section 4 of this SDS for symptoms.

Carcinogenicity

NTP	None
IARC	None
OSHA	None

12. Ecological Information

Ecotoxicity

This product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Component Information

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Triethanolamine 102-71-6	216: 72 h Desmodesmus subspicatus mg/L EC50 169: 96 h Desmodesmus subspicatus mg/L EC50	10600 - 13000: 96 h Pimephales promelas mg/L LC50 flow-through 1000: 96 h Pimephales promelas mg/L LC50 static 450 - 1000: 96 h Lepomis macrochirus mg/L LC50 static	1386: 24 h Daphnia magna mg/L EC50
Boric Acid 10043-35-3	-	1020: 72 h Carassius auratus mg/L LC50 flow-through	115-153: 48 h Daphnia magna mg/L EC50
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

Persistence/Degradability

Not determined

Bioaccumulation

Not determined

Mobility

Chemical Name	Partition Coefficient
Triethanolamine 102-71-6	-2.53
Boric Acid 10043-35-3	-.0757

Other Adverse Effects

Not determined

13. Disposal Considerations

Waste Disposal Methods

Dispose of in accordance with federal, state, and local regulations. Do NOT discard into any sewers, on the ground or into any body of water.

Contaminated Packaging

Do not re-use empty containers. Dispose of containers in accordance with federal, state, and local regulations.

California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Boric Acid 10043-35-3	Toxic

14. Transport Information

Note

See current shipping paper for most up-to-date shipping information, including exemptions and special circumstances.

DOT	Not regulated
IATA	Not regulated
OMDG	Not regulated

15: Regulatory Information

International Inventories

Not determined.

U.S. Federal Regulations

OSHA	MEA is considered a hazardous chemical by the OSHA Hazard Communication Standard 29 CFR 1910.1200 (2012). OSHA HazCom 2012 Hazards: Flammable liquid, Cat. 4 Skin Corrosion, Cat. 1B Acute toxicity, Cat. 4 (oral, dermal & inhalation) Specific Target Organ Toxicity (single exposure)
CERCLA	This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).
SARA 313	Contains Diethanolamine, subject to Section 313 of SARA Title III and 40 CFR Part 372.

CWA (Clean Water Act) This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

U.S. State Regulations

California Proposition 65 This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Triethanolamine 102-71-6	X	X	X
Monoethanolamine 141-43-5	X	X	X

16: Other Information

HMIS

Health Hazards	Flammability	Instability	Special Hazards
2	0	0	Not determined

NFPA

Health Hazards	Flammability	Physical Hazards	Personal Protection
2	0	0	B

Issue Date	05-Sep-2014
Revision Date	05-Mar-2019
Revision Note	Biennial Review

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 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.

End of Safety Data Sheet