Kingscote CHEMICALS

Safety Data Sheet

Issue Date: 05-Sep-2014 **Revision Date:** 05-Mar-2019 **Version Number:** 1.2

1. Identification

Product Identifiers
Product Name: Eaglite Rust Guard 440 Liquid

Product Number: E-504116, E-504117, E-504118

Recommended Use & Restrictions on Use
Industrial rust inhibitor

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 5	Acute Toxicity
Category 2B	Eye Irritation
Category 3	Skin Irritation
Category 2	Reproductive Toxicity
Category 4	Flammable liquid
Category 3	Specific Target Organ Toxicity

Signal Word
Danger

Hazard Statements
Causes severe skin burns and eye damage.
Harmful if swallowed, in contact with skin or if inhaled.
May cause respiratory irritation.
May damage fertility or the unborn child

Precautionary Statements

Obtain special instructions before use
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 wasted disposal plant
Do no eat, drink or smoke when using this product
Use in well ventilated area

Hazard Not Otherwise Classified (HNOC)

Breathing vapors and mists may cause severe damage to the respiratory tract
Canada: WHMIS 1988 controlled product: B3 - Combustible liquid; E - Corrosive

3. Composition/Information on Ingredients

Chemical Name	CAS #	Weight %
Triethanolamine	102-71-6	11
Monoethanolamine	141-43-5	8
Boric Acid	10043-35-3	2
Water	7732-18-5	79

**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 30 minutes. Neutral saline solution may be used as soon as it is available. If eye irritation persists: Get medical advice/attention.

Skin Contact Remove contaminated clothing, 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.

Indication of Any Immediate Medical Attention and Special Treatment Needed

Notes to Physician Treat symptomatically.

5. Fire-Fighting Measures

Suitable Extinguishing Media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media
Not determined

Specific Hazards Arising from the Chemical
Not determined.

Protective Equipment and Precautions for Firefighters
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 protective equipment as required.
Environmental Precautions	Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12 and Section 13.

Methods and Material for Containment and Cleaning Up

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

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.

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.
Incompatible Materials	Store away from strong oxidants, strong acids.

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	STEL: 6 mg/m^3 inhalable fraction TWA: 2 mg/m^3 inhalable fraction	-	-
Monoethanolamine 141-43-5	STEL: 6 ppm TWA: 3 ppm	TWA: 3 ppm STEL: 6 mg/m^3	30- ppm

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 butyl, nitrile or neoprene 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**	Mild
Appearance	Light amber liquid	**Odor Threshold**	Not determined
Color	Light amber		

Property	Values
pH	9.9 – 10.6
Melting/Freezing Point	~32° F
Boiling Point/Range	~212° 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	1.05
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.
Avoid high temperatures and contact with sources of ignition.
Avoid exposing product to air, light and moisture.
Avoid direct sunlight
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Incompatible Materials
Avoid contact with nitrites, strong acids, chlorides, anhydrides, strong oxidizing agents, strong reducing agents, cellulose nitrate and halogenated hydrocarbons.

Hazardous Decomposition Products
None known based on information supplied.

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	=2000-5000 mg/kg (rat)	> 2000 mg/kg (rabbit)	> 2.12 mg/L (rat)
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 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIETHANOLAMINE), 9, UN3082, PG III.

IATA Not regulated

OMDG Not regulated

15: Regulatory Information

International Inventories
Not determined.

U.S. Federal Regulations

CERCLA Section 313 of SARA Title III and 40 CFR Part 372.
Diethanolamine RQ 100 lb (45.4 kg)

SARA 311/312 Acute; Flammable (Combustible liquid)

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 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