



SAFETY DATA SHEET (S.D.S.)

1. Identification

Product number LUA102

Product identifier B.T. THREAD MASTER

Revision date 03-25-2016

Company information GENERAL PRODUCTS & SUPPLY

101 TECHNOLOGY LANE

EXPORT, PA 15632 United States

Company phone General Assistance 800-548-2080

Emergency telephone US 1-800-255-3924

Emergency telephone outside

US

Version # 03

Supersedes date12-29-2015Recommended useNot available.Recommended restrictionsNone known.

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Acute toxicity, oral Category 4

Serious eye damage/eye irritation

OSHA defined hazards Not classified.

Label elements



Signal word None

Hazard statement Harmful if swallowed. Causes serious eye irritation.

Precautionary statement

Prevention Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear eye

protection/face protection.

Response If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. If in eyes: Rinse

cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Category 2

Continue rinsing. If eye irritation persists: Get medical advice/attention.

Storage Store away from incompatible materials.

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

Environmental hazards Hazardous to the aquatic environment, acute Category 1

hazard

Hazardous to the aquatic environment, Category 1

long-term hazard

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Copper		7440-50-8	20 - 40

Chemical name	Common name and synonyms	CAS number	%
Triethanolamine		102-71-6	20 - 40
Aluminum		7429-90-5	1 - 2.5
Graphite		7782-42-5	1 - 2.5
Crystalline Silica		14808-60-7	0.1 - 1
Diethanolamine		111-42-2	0.1 - 1
Mineral Spirits		8052-41-3	0.1 - 1
Other components below reportab	le levels		40 - 60

^{*}Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Ingestion

media

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

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.

Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Get medical advice/attention if you feel unwell.

Most important symptoms/effects, acute and delayed

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision.

Indication of immediate medical attention and special treatment needed

General information

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing

Alcohol resistant foam. Dry powder. Dry sand. Carbon dioxide (CO2).

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 precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

Move containers from fire area if you can do so without risk.

equipment/instructions Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

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. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Avoid prolonged exposure. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Keep container tightly closed. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Biological limit values

Components	Туре	Value	Form
Aluminum (CAS 7429-90-5)	PEL	5 mg/m3	Respirable dust.
		15 mg/m3	Total dust.
Copper (CAS 7440-50-8)	PEL	1 mg/m3	Dust and mist.
		0.1 mg/m3	Fume.
Mineral Spirits (CAS 3052-41-3)	PEL	2900 mg/m3	
UC OCUA Table 7 2 /00 OFD 4040 4	000)	500 ppm	
JS. OSHA Table Z-3 (29 CFR 1910.1 Components	Type	Value	Form
•		Value	
Crystalline Silica (CAS 14808-60-7)	TWA	0.3 mg/m3	Total dust.
		0.1 mg/m3	Respirable.
	- 7.44	2.4 mppcf	Respirable.
Graphite (CAS 7782-42-5)	TWA	15 mppcf	
US. ACGIH Threshold Limit Values	_		_
Components	Туре	Value	Form
Aluminum (CAS 7429-90-5)	TWA	1 mg/m3	Respirable fraction.
Copper (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.
		0.2 mg/m3	Fume.
Crystalline Silica (CAS 4808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
Diethanolamine (CAS 111-42-2)	TWA	1 mg/m3	Inhalable fraction and vapor.
Graphite (CAS 7782-42-5)	TWA	2 mg/m3	Respirable fraction.
Mineral Spirits (CAS 8052-41-3)	TWA	100 ppm	
Triethanolamine (CAS 102-71-6)	TWA	5 mg/m3	
US. NIOSH: Pocket Guide to Chemic	cal Hazards		
Components	Туре	Value	Form
Aluminum (CAS 7429-90-5)	TWA	5 mg/m3	Respirable.
,		5 mg/m3	Welding fume or pyrophoric powder.
		10 mg/m3	Total
Copper (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.
Crystalline Silica (CAS 14808-60-7)	TWA	0.05 mg/m3	Respirable dust.
Diethanolamine (CAS 111-42-2)	TWA	15 mg/m3	
•		3 ppm	
Graphite (CAS 7782-42-5)	TWA	2.5 mg/m3	Respirable.
Mineral Spirits (CAS 8052-41-3)	Ceiling	1800 mg/m3	
•	TWA	350 mg/m3	

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

Exposure guidelines

US - California OELs: Skin designation

Diethanolamine (CAS 111-42-2)

Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

Diethanolamine (CAS 111-42-2)

Can be absorbed through the skin.

Appropriate engineering

controls

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. Provide

eyewash station.

Individual protection measures, such as personal protective equipment

Eye/face protection Face shield is recommended. Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove

supplier.

Other Wear suitable protective clothing.

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

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Wash hands after handling and before eating. Keep away from food and drink.

9. Physical and chemical properties

Appearance

Physical state Liquid. Form Liquid.

Color Not available.

Odor Not available.

Odor threshold Not available.

PH Not available.

Melting point/freezing point Not available.

Initial boiling point and boiling

range

1822.01 °F (994.45 °C) estimated

Flash point 648.9 °F (342.7 °C) estimated

Evaporation rate Not available.
Flammability (solid, gas) Not applicable.
Upper/lower flammability or explosive limits

Flammability limit - lower

1 % estimated

(%)

Flammability limit - upper

Not available.

(%)

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 0.00001 psig @70F estimated

Vapor densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature 998.6 °F (537 °C) estimated

Decomposition temperature Not available. **Viscosity** Not available.

Other information

Explosive properties Not explosive.

Oxidizing properties Not oxidizing.

Specific gravity 2.845 estimated

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stabilityMaterial is stable under normal conditions.Possibility of hazardousHazardous polymerization does not occur.

reactions

Conditions to avoid Contact with incompatible materials.

Incompatible materials Peroxides. Phenols.

Hazardous decomposition No hazardous decomposition products are known.

products

11. Toxicological information

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contact Prolonged or repeated exposure may cause liver and kidney damage. These effects have not

been observed in humans.

Eye contact Causes serious eye irritation.

Ingestion Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision.

Information on toxicological effects

Acute toxicity Harmful if swallowed.

ricate textory		
Components	Species	Test Results
Aluminum (CAS 7429-90-5)		
<u>Acute</u>		
Inhalation		
LC50	Rat	> 0.888 mg/l, 4 Hours
		7.6 mg/l, If <1L: Consumer Commodity Hours
Oral		
LD50	Rat	> 2000 mg/kg
Copper (CAS 7440-50-8)		
<u>Acute</u>		
Dermal		
LD50	Rat	> 2000 mg/kg, 24 Hours
Inhalation		
LC50	Rat	> 5.11 mg/l, 4 Hours
Oral		
LD50	Rat	481 mg/kg
Diethanolamine (CAS 111-4	42-2)	
<u>Acute</u>		
Oral		
LD50	Rat	1100 mg/kg
Graphite (CAS 7782-42-5)		
<u>Acute</u>		
Inhalation		
LC50	Rat	> 2000 mg/m3, 4 Hours

Components Test Results

Species

Oral

LD50 Rat > 2000 mg/kg

Triethanolamine (CAS 102-71-6)

<u>Acute</u>

Dermal

LD50 Rabbit > 2000 mg/kg

Oral

LD50 Rat 6400 mg/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

Causes serious eye irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity Risk of cancer cannot be excluded with prolonged exposure.

IARC Monographs. Overall Evaluation of Carcinogenicity

Crystalline Silica (CAS 14808-60-7) If <1L: Consumer Commodity Carcinogenic to humans.

Diethanolamine (CAS 111-42-2) 2B Possibly carcinogenic to humans.

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

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

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

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not an aspiration hazard.

Chronic effects May be harmful if absorbed through skin. Prolonged inhalation may be harmful. Prolonged

exposure may cause chronic effects.

Prolonged or repeated exposure may cause liver and kidney damage. These effects have not

been observed in humans.

12. Ecological information

Ecotoxicity Very toxic to aquatic life with long lasting effects.

Components		Species	Test Results
Aluminum (CAS 7429	-90-5)		
Aquatic			
Fish	LC50	Rainbow trout, donaldson trout (Oncorhynchus mykiss)	0.16 mg/l, 96 hours
Copper (CAS 7440-50	0-8)		
Aquatic			
Algae	IC50	Algae	0 mg/L, 72 Hours
Crustacea	EC50	Daphnia	0.03 mg/L, 48 Hours
		Water flea (Daphnia magna)	0.036 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	0.0319 - 0.0544 mg/l, 96 hours

^{*} Estimates for product may be based on additional component data not shown.

Components		Species	Test Results	
Diethanolamine (CAS 111-42-2)				
Aquatic				
Algae	IC50	Algae	7.8 mg/L, 72 Hours	
Crustacea	EC50	Daphnia	55 mg/L, 48 Hours	
Fish	LC50	Fathead minnow (Pimephales promelas)	100 mg/l, 96 hours	
Triethanolamine (CAS	102-71-6)			
Aquatic				
Algae	IC50	Algae	216 mg/L, 72 Hours	
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	

^{*} Estimates for product may be based on additional component data not shown.

Bioaccumulative potential

No data is available on the degradability of this product.

Persistence and degradability

Partition coefficient n-octanol / water (log Kow)

Diethanolamine -1.43Mineral Spirits 3.16 - 7.15**Triethanolamine**

Mobility in soil No data available.

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

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

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable 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

Dispose of in accordance with local regulations. Empty containers or liners may retain some

product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

14. Transport information

Transport hazard class(es)

DOT

UN number UN3082

UN proper shipping name Environmentally hazardous substances, liquid, n.o.s. (Copper, Aluminum)

Class 9 Subsidiary risk 9 Label(s) Ш Packing group

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

Special provisions 8, 146, 335, IB3, T4, TP1, TP29

Packaging exceptions 155 Packaging non bulk 203 Packaging bulk 241

IATA

UN3082 **UN** number

UN proper shipping name Environmentally hazardous substances, liquid, n.o.s. (Copper, Aluminum) Transport hazard class(es)

9 Class Subsidiary risk

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9 Label(s) **Packing group** Ш **Environmental hazards** Yes

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

Packaging Exceptions

IMDG

UN number UN3082

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Copper, Aluminum)

Transport hazard class(es)

Class 9 Subsidiary risk 9 Label(s) **Packing group** Ш

Environmental hazards

Marine pollutant Yes F-A, S-F **EmS**

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

Not established.

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

DOT; IATA; IMDG



Marine pollutant



General information IMDG Regulated Marine Pollutant.

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)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Copper (CAS 7440-50-8) Listed. Diethanolamine (CAS 111-42-2) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

No

Hazard categories Immediate Hazard - Yes

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

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
Copper	7440-50-8	20 - 40	
Aluminum	7429-90-5	1 - 2.5	
Diethanolamine	111-42-2	0.1 - 1	

Other federal regulations

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

Diethanolamine (CAS 111-42-2)

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. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.

(a))

Aluminum (CAS 7429-90-5)

Copper (CAS 7440-50-8)

Crystalline Silica (CAS 14808-60-7)

Diethanolamine (CAS 111-42-2)

Mineral Spirits (CAS 8052-41-3)

US. Massachusetts RTK - Substance List

Aluminum (CAS 7429-90-5)

Copper (CAS 7440-50-8)

Crystalline Silica (CAS 14808-60-7)

Diethanolamine (CAS 111-42-2)

Graphite (CAS 7782-42-5)

Mineral Spirits (CAS 8052-41-3)

Triethanolamine (CAS 102-71-6)

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

Aluminum (CAS 7429-90-5)

Copper (CAS 7440-50-8)

Crystalline Silica (CAS 14808-60-7)

Diethanolamine (CAS 111-42-2)

Graphite (CAS 7782-42-5)

Mineral Spirits (CAS 8052-41-3)

Triethanolamine (CAS 102-71-6)

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

Aluminum (CAS 7429-90-5)

Copper (CAS 7440-50-8)

Crystalline Silica (CAS 14808-60-7)

Diethanolamine (CAS 111-42-2)

Graphite (CAS 7782-42-5)

Mineral Spirits (CAS 8052-41-3)

Triethanolamine (CAS 102-71-6)

US. Rhode Island RTK

Aluminum (CAS 7429-90-5)

Copper (CAS 7440-50-8)

Diethanolamine (CAS 111-42-2)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Diethanolamine (CAS 111-42-2) Listed: June 22, 2012

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
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	Yes

^{*}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

 Issue date
 08-03-2015

 Revision date
 03-25-2016

Version # 03

Disclaimer We 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.

Revision information This document has undergone significant changes and should be reviewed in its entirety.

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).