

Section 1 ~ Identification

Identity (As Used On Label and List) B4092 ANTI SEIZE BRUSH TOP	Date Prepared: 08-03-2015
Company Information: OMEGA INDUSTRIAL SUPPLY, INC	Emergency Telephone Number: 1-800-424-9300
Address (Number, Street, Suite/Apt#) 101 Grobric Ct #1	Telephone Number for Information: 1-800-571-7347
(City, State, and Zip Code) Fairfield, CA 94534	Signature of Prepare (Optional) REGULATORY DEPT.

Section 2 ~ Hazard(s) Identification

Physical Hazards	Not classified.
Health Hazards	Acute toxicity, oral Category 4 Acute toxicity, inhalation Category 4 Serious eye damage/eye irritation Category 2 Carcinogenicity Category 1A
OSHA Defined Hazards	Not Classified.

Label Elements		Signal Word: Danger.
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Hazard Statement Harmful if swallowed. Causes serious eye irritation. Harmful if inhaled. May cause cancer. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. The mixture does not meet the criteria for classification.

Precautionary Statement

Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing vapors. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.
Response	If swallowed: Call a poison center/doctor if you feel unwell. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Rinse mouth. If eye irritation persists: Get medical advice/attention. Collect spillage.
Storage	Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) Not Otherwise Classified (HNOC)	None known.	Supplemental Information	None
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Section 3 ~ Composition/Information on Ingredients

Chemical Name	Common Name and Synonyms	CAS No.	%(Wt.)
Copper		7440-50-8	20 – 40
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 reportable levels			40 – 60

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

Section 4 ~ First Aid Measures

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a POISON CENTER or doctor/physician if you feel unwell.

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.

Ingestion: 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: Irritation of nose and throat. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Indication of Immediate Medical Attention and Special Treatment Needed: Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General Information: IF exposed or concerned: Get medical advice/attention. 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.

Section 5 ~ Fire Fighting Measures

Suitable Extinguishing Media: Alcohol resistant foam. Dry powder. Dry sand. Carbon dioxide (CO2).

Unsuitable Extinguishing Media: 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.

Firefighting Equipment/Instructions: Move containers from fire area if you can do so without risk.

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

General Fire Hazards: No unusual fire or explosion hazards noted.

Section 6 ~ Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures: Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of vapors and spray mists. 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: Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. 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. Never return spills to original containers for re-use. 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.

Section 7 ~ Handling and Storage

Precautions for Safe Handling: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Avoid inhalation of vapors and spray mists. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Use only outdoors or in a well-ventilated area.

Should be handled in closed systems, if possible. 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: Store locked up. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

Section 8 ~ Exposure Controls/Personal Protection

Occupational Exposure Limits:

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

Components	Type	Value	Form
Aluminum (7429-90-5)	PEL	5 mg/m ³	Respirable dust.
		15mg/m ³	Total dust.
Copper (7440-50-8)	PEL	1mg/m ³	Dust and mist.
		0.1 mg/m ³	Fume.
Mineral Spirits (8052-41-3)	PEL	2900 mg/m ³	
		500 ppm	

US. OSHA Table Z-3 (29 CFR 1910.1000)

Components	Type	Value	Form
Crystalline Silica (14808-60-7)	TWA	0.3 mg/m ³	Total dust.
		0.1 mg/m ³	Respirable
Graphite (7782-42-5)	TWA	2.4 mppcf	Respirable
		15 mppcf	

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Aluminum (7429-90-5)	TWA	1 mg/m ³	Respirable fraction.
Copper (7440-50-8)	TWA	1 mg/m ³	Dust and mist.
Crystalline Silica (14808-60-7)	TWA	0.2 mg/m ³	Fume.
Diethanolamine (111-42-2)	TWA	0.025 mg/m ³	Respirable fraction.
Graphite (7782-42-5)	TWA	1mg/m ³	Inhalation fraction and vapor
Mineral Spirits (8052-41-3)	TWA	2 mg/m ³	Respirable fraction.
Triethanolamine (102-71-6)	TWA	100 ppm	
		5 mg/m ³	

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
Aluminum (7429-90-5)	TWA	5 mg/m ³	Respirable
		5 mg/m ³	Welding fume or pyrophoric powder.
		10 mg/m ³	Total
Copper (7440-50-8)	TWA	1 mg/m ³	Dust and mist.
Crystalline Silica (14808-60-7)	TWA	0.05 mg/m ³	Respirable dust.
Diethanolamine (111-42-2)	TWA	15 mg/m ³	
		3 ppm	
Graphite (7782-42-5)	TWA	2.5 mg/m ³	Respirable.
Mineral Spirits (8052-41-3)	Ceiling	1800 mg/m ³	
	TWA	350 mg/m ³	

Biological Limit Values: No biological exposure limits noted for the ingredient(s).

Exposure Guidelines

US - California OELs: Skin designation: Diethanolamine (111-42-2) Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation: Diethanolamine (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: Chemical respirator with organic vapor cartridge and full facepiece.

Skin Protection

Hand Protection: Wear appropriate chemical resistant gloves.

Other: Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory Protection: Chemical respirator with organic vapor cartridge and full facepiece.

Thermal Hazards: Wear appropriate thermal protective clothing, when necessary.

General Hygiene Considerations: Keep away from food and drink. 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.

Section 9 ~ Physical Chemical Properties

Appearance

Physical State: Liquid.

Form: Not available.

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 available.

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: 0.00001 psig @70F estimated

Vapor Density: Not available.

Relative Density: Not available.

Solubility(ies)

Solubility (water): Not available.

Partition Coefficient (n-octanol/water): Not available.

Auto-Ignition Temperature: Not available.

Decomposition Temperature: Not available.

Viscosity: Not available.

Other Information

Specific Gravity: 2.845 estimated

Section 10 ~ Stability and Reactivity

Reactivity: 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 Reactions: Hazardous polymerization does not occur.

Conditions to Avoid: Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible Materials: Peroxides. Phenols.

Hazardous Decomposition Products: No hazardous decomposition products are known.

Section 11 ~ Toxicological Information

Information on Likely Routes of Exposure

Inhalation: Harmful if inhaled.

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: Irritation of nose and throat. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Information on Toxicological Effects

Acute Toxicity: Harmful if inhaled. Harmful if swallowed.

<i>Components</i>	<i>Species</i>	<i>Test Results</i>
Aluminum (7429-90-5)		
Acute		
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 (7440-50-8)		
Acute		
Dermal LD50	Rat	> 2000 mg/kg, 24 Hours
Inhalation LC50	Rat	>5.11 mg/l, 4 Hours
Oral LD50	Rat	481 mg/kg
Diethanolamine (111-42-2)		
Acute		
Oral LD50	Rat	1100 mg/kg
Graphite (7782-42-5)		
Acute		
Inhalation LC50	Rat	> 2000 mg/m3, 4 Hours
Oral LD50	Rat	> 2000 mg/kg
Triethanolamine (102-71-6)		
Acute		
Dermal LD50	Rabbit	> 2000 mg/kg
Oral LD50	Rat	6400 mg/kg

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

Skin Corrosion/Irritation: Prolonged skin contact may cause temporary irritation.

Serious Eye Damage/Eye Irritation: Causes serious eye irritation.

Respiratory or Skin Sensitization

Respiratory Sensitization: Not available.

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

Germ Cell Mutagenicity: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity: May cause cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity: Crystalline Silica (14808-60-7) If <1L: Consumer Commodity Carcinogenic to humans.
Diethanolamine (111-42-2) 2B Possibly carcinogenic to humans.
Triethanolamine (102-71-6) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens: Not available.

Reproductive Toxicity: This 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 available.

Chronic Effects: Prolonged inhalation may be harmful. May be harmful if absorbed through skin. Prolonged exposure may cause chronic effects. Prolonged or repeated exposure may cause liver and kidney damage. These effects have not been observed in humans.

Section 12 ~ Ecological Information

Ecotoxicity: Very toxic to aquatic life with long lasting effects.

<i>Components</i>	<i>Species</i>	<i>Test Results</i>
Aluminum (7429-90-5)		
Aquatic		
Fish	LC50	Rainbow trout, donaldson trout (Oncorhynchus mykiss)
		0.16 mg/l, 96 hours
Copper (7440-50-8)		
Aquatic		
Algae	IC50	Algae
Crustacea	EC50	Daphnia
		Water flea (Daphnia magna)
Fish	LC50	Fathead minnow (Pimephales promelas)
		0.036 mg/l, 48 hours
		0.0319 – 0.0544 mg/l, 96 hours
Diethanolamine (111-42-2)		
Aquatic		
Algae	IC50	Algae
Crustacea	EC50	Daphnia
Fish	LC50	Fathead minnow (Pimephales promelas)
		7.8 mg/L, 72 Hours
		55 mg/L, 48 Hours
		100 mg/l, 96 hours
Trethanolamine (102-71-6)		
Aquatic		
Algae	IC50	Algae
Crustacea	EC50	Water flea (Ceriodaphnia dubia)
Fish	LC50	Fathead minnow (Pimephales promelas)
		216 mg/L, 72 Hours
		565.2 – 658.3 mg/l, 48 hours
		10610 – 13010 mg/l, 96 hours

* 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: No data available.

Partition coefficient n-octanol / water (log Kow): Diethanolamine -1.43 Mineral Spirits 3.16 - 7.15 Triethanolamine -1

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.

Section 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: Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

Section 14 ~ Transport Information

<p>DOT UN Number: UN3082 UN Proper Shipping Name: Environmentally hazardous substances, liquid, n.o.s. (Copper, Aluminum) Transport Hazard Class(es) Class: 9 Subsidiary Risk: - Label(s): 9 Packing Group: III Special Provisions: 8, 146, 335, IB3, T4, TP1, TP29 Packaging Exceptions: 155 Packaging Non Bulk: 203 Packaging Bulk: 241</p>	<p>IATA UN Number: UN3082 UN Proper Shipping Name: Environmentally hazardous substances, liquid, n.o.s. (Copper, Aluminum) Transport Hazard Class(es) Class: 9 Subsidiary Risk: - Label(s): 9 Packing Group: III Environmental Hazards: Yes Packaging Exceptions: 155</p>	<p>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: - Label(s): 9 Packing Group: III Environmental Hazards Marine Pollutant: Yes EmS: F-A, S-F Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not available.</p>
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Special precautions for user: Read safety instructions, SDS and emergency procedures before handling.
DOT; IATA;IMDG

Marine Pollutant



General Information: IMDG Regulated Marine Pollutant.

Section 15 ~ Regulatory Information

US Federal Regulations: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D): Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4): Copper (7440-50-8) Listed. Diethanolamine (111-42-2) 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): Immediate Hazard – Yes Delayed Hazard – Yes Fire Hazard - No
Pressure Hazard – No Reactivity Hazard - No

Hazard Categories

SARA 302 Extremely Hazardous Substance: Not listed.

SARA 311/312 Hazardous Chemical: No

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 (111-42-2)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): Not regulated.

Safe Drinking Water Act (SDWA): Not regulated.

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 (7429-90-5) Crystalline Silica (14808-60-7) Mineral Spirits (8052-41-3)

Copper (7440-50-8) Diethanolamine (111-42-2)

US. Massachusetts RTK - Substance List	US. New Jersey Worker and Community Right-to-Know Act	US. Pennsylvania Worker and Community Right-to-Know Law	US. Rhode Island RTK
Aluminum (7429-90-5)	Aluminum (7429-90-5)	Aluminum (7429-90-5)	Aluminum (7429-90-5)
Copper (7440-50-8)	Copper (7440-50-8)	Copper (7440-50-8)	Copper (7440-50-8)
Crystalline Silica (14808-60-7)	Crystalline Silica (14808-60-7)	Crystalline Silica (14808-60-7)	Diethanolamine (111-42-2)
Diethanolamine (111-42-2)	Diethanolamine (111-42-2)	Diethanolamine (111-42-2)	
Graphite (7782-42-5)	Graphite (7782-42-5)	Graphite (7782-42-5)	
Mineral Spirits (8052-41-3)	Mineral Spirits (8052-41-3)	Mineral Spirits (8052-41-3)	
Triethanolamine (102-71-6)	Triethanolamine (102-71-6)	Triethanolamine (102-71-6)	

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 (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) 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).

Section 16 ~ Other Information

	NFPA	HMIS	Key
HEALTH	2	2	4= Severe
FLAMMABILITY	1	2	3= Serious
REACTIVITY	1	2	2= Moderate
OTHER/PROTECTION	-	-	1= Slight 0= Minimal

Disclaimer: Omega Industrial Supply, Inc. 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.