Section 1: PRODUCT AND COMPANY IDENTIFICATION

Omega Products International
P.O. Box 77220
Corona, CA 92877-0107

Company Phone Number: 1-951-737-7447
Emergency Phone Number: 1-951-737-7447 or 1-800-600-6634

Trade Name: Epoxy Grout
Chemical Family: Mixture

Issue Date: June 01, 2017

Section 2: HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status
The chemicals in this mixture are considered to be hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Acute toxicity - Dermal	**Category 3**
Specific Target Organ Toxicity (Repeated Exposure)	**Category 1**
Skin corrosion / irritation	**Category 2**
Series eye damage / eye irritation	**Category 1**
Skin sensitization	**Category 1**
Chronic aquatic toxicity	**Category 2**

2.1 Emergency Overview

DANGER

Hazard Statements
Toxic in contact with skin
Causes damage to lungs through prolonged or repeated exposure by inhalation (silicosis)
Causes skin irritation
Causes serious eye damage / eye irritation
Toxic to aquatic life with long lasting effects

Hazards not otherwise classified
May be harmful if swallowed.

Precautionary Statements – Prevention
Wear Protective gloves / protective clothing / eye protection / face protection
Do not breathe mist, vapors, spray, and dust
Wash face, hands and any exposed skin thoroughly after handling
Contaminated work clothing should not be allowed out of the workplace

Precautionary Statements – Response
Immediately call a POSION CENTER or doctor / physician
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
Wash contaminated clothing before reuse.
IF ON SKIN: Wash with plenty of soap and water.
If skin irritation or rash occurs: Get medical advice / attention.
IN CASE of inadequate ventilation wear respiratory protection.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Collect spillage.

Precautionary Statements – Disposal
Dispose of contents / container in accordance with local regulations to an approved waste disposal plant.

2.2 Potential Health Effects

Relevant routes of exposure: Eye contact, skin contact, inhalation, ingestion

Eye: Direct Contact with eyes can cause severe damage.

Skin: Prolonged contact with skin can cause skin irritation, rash, and / or burns.

Inhalation: Prolonged inhalation of product can cause headache, nausea, irritation and/or inflammation of nose, throat or lungs.

Ingestion: Ingestion of material may cause vomiting and/or stomach pains.

2.3 Potential Environmental Effects

Some chemicals in the mixture are considered to be harmful to aquatic life.

Section 3: COMPOSITION/INFORMATION OF INGREDIENTS

		Content [wt %]	
Component	**CAS Number**	**Upper**	**Lower**
Crystalline Silica (quartz)	14808-60-7	78.0	74.0
Diglycodyl Ether of Bisphenol A Homopolymer	25085-99-8	12.0	10.0
Modified Polyamine	Proprietary	8.0	6.0
Oxirane, mono [(C12-14-alkyloxy)methyl] derivs.	68609-97-2	4.0	2.0
Tetraethylene pentamine	112-57-2	2.0	1.0

If CAS number is “proprietary,” the specific chemical identity has been withheld as a trade secret.

Section 4: FIRST-AID MEASURES

Eye Contact: Move Individual away from exposure. Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.

Skin Contact: Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and wash before reuse. Get medical attention if irritation develops and persists.

Inhalation: Move victim to fresh air. Keep warm and quiet. If not breathing, give artificial respiration. If breathing is difficult, (trained personnel should) give oxygen. GET IMMEDIATE MEDICAL ATTENTION.

Ingestion: Do not include vomiting without medical advice. Never give anything by mouth to an unconscious person. GET IMMEDIATE MEDICAL ATTENTION.

Most important symptoms and effects, both acute and delayed

Particulates may cause abrasive eye injury. Inhalation of dust may cause respiratory tract irritation. Symptoms of exposure may include cough, sore throat, nasal congestion, sneezing, wheezing and shortness of breath. Prolonged inhalation of respirable crystalline silica above certain concentrations may cause lung diseases, including silicosis and lung cancer.

Causes skin burns. May cause allergic skin reaction.

Indication of any immediate medical attention and special treatment needed

Immediate medical attention is not required.

Note to Physician: Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Carbon dioxide (CO2), alcohol resistant foam, dry chemical, water spray

Unsuitable Extinguishing Media: Do not use a solid water stream as it may scatter and spread fire.

Specific Hazard Combustion Products: Some of the components in this mixture may combust to form carbon dioxide (CO2), carbon monoxide, nitrogen oxides (NOX), and / or ammonia. The by by-products expected in incomplete pyrolysis of epoxy resin component of this mixture are mainly phenolics, carbon monoxide, and water.

Combustion / Explosion Hazards: Some components of this mixture will not burn unless they are evaporated to dryness. Closed containers may rupture when exposed to extreme heat.

Protection of Firefighters: Wear self- contained breathing apparatus (SCBA) and full fire-fighting protective clothing. Thoroughly decontaminate all protective equipment after use. Evacuate all persons from the fire to a safe location. Move non-burning material, as feasible, to a safe location as soon as possible. Fire fighters should be protected from potential explosion hazard while extinguishing the blaze. Use water spray to cool fire-exposed containers.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personnel protective equipment as required. Ensure adequate ventilation. Keep people away from and upwind of spill and / or leak.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Beware of vapors accumulating to from explosive concentrations, Vapors can accumulate in low areas.

Methods for Containment: Prevent spilled material from 1) contaminating soil, 2) entering sanitary sewers, and drainage systems, and 3) entering bodies of water or ditches that lead to waterways. Prevent spreading over a wide area (e.g., by containment or oil barriers).

Methods for Clean-up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Section 7: HANDLING AND STORAGE

Handling: Avoid breathing vapors, mists, or dust. Avoid contact with skin, eyes, or clothing, Take off contaminated clothing and wash before reuse, Wash hands before breaks and immediately after handling product. Ensure adequate ventilation.

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

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:

Tetraethylene pentamine (CAS #: 112-57-2)

AIHA - WEEL	5 mg / m^3 TWA (Skin notation)

Crystalline Silica (quartz) (CAS #: 14808-60-7)

AIHA - TLV	0.025 mg / m^3 TWA (respirable dust)

All other components have no occupational exposure limit values.

Engineering Controls: Ensure adequate ventilation, especially in confined areas. Local ventilation may be required during certain operations.

Individual Protection Measures

Eye / Face Protection: Wear safety glasses with side shields and a face-shield or googles and a face-shield. Ensure that the eyewash stations and safety showers are close to the workstation location.

Skin Protection: Gloves made of butyl rubber. Gloves made of neoprene. Gloves made of Viton®. Please observe instructions regarding permeability and breakthrough time which is provided by the supplier of the gloves. Also take into consideration the specific and local conditions under which the product is used, such as the danger of cuts, abrasion.

Respiratory Protection: None required if hazards have been assessed and airborne concentrations are maintained below the exposure limits listed in Section 8. Wear an approved air-purifying respirator with organic vapor/amine cartridges where airborne concentrations may exceed exposure limits in Section 8. Use an approved positive-pressure air-supplied respirator with emergency escape provisions if there is any potential for an uncontrolled release, airborne concentrations are not known, or any other circumstances where air-purifying respirators may not provide adequate protection In case of insufficient ventilation, wear suitable respiratory equipment

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

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Color: Varies (depends on color pigment)
Odor: mild amine
Odor Threshold: No information available.
Physical State: liquid (two components), solid (one component), final state (paste / solid)
pH: Not available
Freezing Point: Not available.
Boiling Point: > 93°C / > 200°F (lowest of three components)
Flash Point: Not available.
Evaporation Rate: Not available.
Flammability (solid, gas):
Upper Flammability Limit: Not available.
Lower Flammability Limit: Not available.
Auto Ignition Temperature: Not available
Vapor Pressure: Not available
Vapor Density: Not available.
Specific Gravity: Not available.
Solubility (water): Insoluble
Partition Coefficient (n-octanol/water): Not available.

Section 10: STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: Keep away from open flames and sources of ignition. Exposure to direct sunlight. Contamination by those materials referred to under incompatible materials. Elevated temperatures.

Incompatible Materials: Strong oxidizing agents, acids, acrylates, alcohols, aldehydes, halogenated compounds, ketones, nitrites, copper, copper alloys, brass, bronze

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide (CO2), hydrocarbons, nitrogen oxides (NOx), ammonia, phenolics.

Section 11: TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Primary Routes of entry: Skin Contact, Ingestion, Eye Contact, Inhalation

Acute Toxicity

Diglycodyl Ether of Bisphenol A Homopolymer

Oral LD50	15000 mg/kg (Rat)
Dermal	23000 mg/kg (Rabbit)

Oxirane, mono [(C12-14-alkyloxy)methyl] derivs.

Oral LD50	= 17100 mg/kg (Rat)

Tetraethylene pentamine

Oral LD50	= 2100 mg/kg (Rat)
Dermal LD50	= 660 mg/kg (Rabbit)

Information on toxicological effects:

Tetraethylene pentamine

Symptoms	Blisters / rashes

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Eyes	Causes serious eye damage		
Skin	Toxic in contact with skin. Contact causes severe skin irritation and possible burns. May cause sensitization by skin contact. May be absorbed through the skin in harmful amounts.		
Inhalation	May cause irritation of respiratory track. The major concern is silicosis caused by the inhalation of respirable crystalline silica dust. Silicosis can exist in several forms, chronic (or ordinary), accelerated, or acute.		
Ingestion	May be harmful if swallowed. Ingestion may irritate the mouth, throat and stomach. Ingestion is not an anticipated route of exposure for this material.		
Irritation	Can cause severe irritation or burns.		
Sensitization	May cause an allergic skin reaction		
Carcinogenicity		Diglycodyl Ether of Bisphenol A Homopolymer	Crystalline Silica (quartz)
	IARC	**Group 3** – The agent is not classifiable as to its carcinogenicity to humans	**Group 1** – The agent is considered carcinogenic to humans.
	Target Organ(s)	**Skin, Eyes**	**Lungs**

Section 12: ECOLOGICAL INFORMATION

1) Marine Pollutant: Epoxy Resin

Ecotoxicity

Diglycodyl Ether of Bisphenol A Homopolymer

Algae	ErC50 11 mg/l (Scenedesmus capricornutum) (72h)
Fish	LC50 2 mg/l (Oncorhynchus mykiss) (96 h)

Oxirane, mono [(C12-14-alkyloxy)methyl] derivs.

Log Kow	3.77

Unknown aquatic toxicity

19% of this component consists of components of unknown hazards to the aquatic environment.

Persistence and degradability: No Information Available

Bioaccumulation: No Information Available

Other adverse effects: No Information Available

2) Marine Pollutant: Tetraethylene pentamine

Ecotoxicity

Tetraethylene pentamine

Log Kow	< 1
Bioconcentration factor (BCF)	No bioaccumulation expected
Algae	EC50 = 2.1 mg/L (Pseudokirchneriella subcapitata) (72h)
Fish	LC50 = 420 mg/L (Poecilia reticulata) (96h) static
Water Flea	EC50 = 24.1 mg/L (48h)

Unknown aquatic toxicity

85 % of this component consists of components of unknown hazards to the aquatic environment.

Persistence and degradability: Not readily biodegradable.

Bioaccumulation: No Information Available

Other adverse effects: No Information Available

Section 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal Considerations: NOT A RCRA HAZARDOUS WASTE: When discarded in its purchased form, this material would not be regulated as RCRA Hazardous waste under 40 CFR 261.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

Contaminated Packaging: Empty Containers should be taken for local recycling, recovery or waste disposal.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Section 14: TRANSPORTATION INFORMATION

Crystalline silica (quartz) is not a hazardous material for purposes of transportation under the U.S. Department of Transportation Table of Hazardous Materials, 49 CFR § 172.101.

DOT

UN-No	UN3082	
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	
Technical Name	Epoxy Resin	Tetraethylene pentamine
Hazard Class	9	
Packing Group	III	
Marine Pollutant	Epoxy Resin	Tetraethylene pentamine
NAERG	171	
DOT Exemption	Marine Pollutant – DOT requirements specific to Marine Pollutants do not apply to non-bulk (<119 gals. / 450 L) packagings transported by motor vehicles, rail cars, or aircraft. The transportation may vary with the container and mode of transport.	The transport information may vary with the container and mode of transport.

IATA

UN-No		UN3082	
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.		
Technical Name	Epoxy Resin		Tetraethylene pentamine
Hazard Class		9	
Packing Group		III	
Packing Instructions		964	
Marine Pollutant	N/A		Tetraethylene pentamine
NAERG		171	

IMDG/IMO

UN-No		UN3082	
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.		
Technical Name	Epoxy Resin		Tetraethylene pentamine
Hazard Class		Class 9	
Packing Group		PG III	
EmS-No		F-A, S-F	
Marine Pollutant	Epoxy Resin		Tetraethylene pentamine
NAERG		171	

Section 15: REGULATORY INFORMATION

US Federal Regulations

TSCA

Crystalline silica (quartz) appears on the EPA TSCA inventory under CAS No. 14808-60-7

SARA 313

Section 313 of the Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311 / 312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	Yes

Clean Water Act

This product does not contain any listed substances

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any HAPs

NTP

Silica, crystalline (respirable size) is classified as Known to be Human Carcinogen

State Regulations

Omega Products International, Inc., as a blender of processed material in the State of California, is required by Proposition 65 to worn that one or more of the components contained in this product could contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm. The State of California (Proposition 65) requires this warning in the absence of definitive testing to prove that the defined risks do not exist. We believe this product complies with all other applicable state and federal laws and regulations governing manufacture, distribution and intended use.

Section 16: OTHER INFORMATION

Hazardous Material Information System III (U.S.A.)

Health: 3
Flammability: 1
Instability: 1

Health rating applies only to acute effects as defined by the National Paint and Coatings Association)

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

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