

MATERIAL SAFETY DATA SHEET

Fiberglass Resin

Date of Preparation: June 18, 2001

Section 1 - Product Information

Manufacturer: Bondo Corporation
3700 Atlanta Industrial Parkway NW
Atlanta, GA 30331

Emergency Telephone: For US transportation emergencies call - Chemtrec: 800-424-9300
For Canadian transportation emergencies call - Canutec: 613-996-6666

Information: 404-696-2730 (USA 7:30am – 4:30pm Eastern Time)
Product Use: Fiberglass Resin

Stock Number: 401, 401C, 402, 402C, 402K, 402T, 402Z, 404, 404C, 404Z

Emergency Overview

Signs of Overexposure: Nausea, cough, dizziness, weakness, headache, chest pain, lack of coordination, shortness of breath, dermatitis, redness and/or pain in eyes.

Emergency First Aid: Move to fresh air, remove contaminated clothing, wash effected skin with soap and water, do not use solvents or thinners; if product gets into eyes, remove contact lenses, flush with water for 15 minutes.

Handling: When handling, wear an organic vapor cartridge respirator (NIOSH / OSHA), solvent resistant gloves and safety eyewear. Close all containers tightly after use. Do not eat, drink or smoke in work areas.

Clean-up: Eliminate sources of ignition. Dike to reduce extent of spill if liquid. Remove with inert absorbent (vermiculite, clay, Oil-Dry®, Kitty Litter, etc.) using non-sparking tools. Transfer to a grounded metal container, seal container. Dispose of as hazardous waste.

Other Precautions: Vapors are heavier than air and may travel along floors. Material has an offensive odor. Prolonged exposure may reduce the user's sensitivity to the odor, thus reducing the effectiveness of odor as a warning against exposure.

Fire Fighting: Flammable liquid, refer to Guide 128 of the North American Emergency Guide Book.

NFPA Flammability: IC.

Bondo Corporation. has no oversight with respect to the guidance practices or policies or manufacturing processes of other companies handling or using this material. The information given in this MSDS is only related to the product as shipped in its original condition as described in Section 2, "Hazardous Ingredients" and Section 9 "Physical and Chemical Properties".

Section 2 - Hazardous Ingredients

Hazardous Ingredient	% by weight	CAS No.	Vapor Press.	ACGIH TLV	OSHA PEL	LD ₅₀ Oral	LD ₅₀ Derm	LC ₅₀ Inhal.	LEL
Styrene	30-50%	100-42-5	4.5	20ppm	100ppm	2650	n. av.	12000	1.1

LD₅₀ Oral - rat mg/m³, LD₅₀ Dermal - rabbit mg/m³, LC₅₀ Inhalation - rat mg/m³ unless otherwise specified.

Section 3 - Hazards Identification

Primary Routes of Entry: Inhalation, skin contact, ingestion, eyes.

Exposure Effects Acute and Chronic:

Inhalation: Acute: Nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, central nervous system depression.

Skin contact: Acute: Extraction of natural oils with resulting dry skin, irritation, redness and dermatitis. Can pass through the skin into the blood.

Eye contact: Acute: Irritation, redness, pain, blurred vision, sensation of seeing halos around lights and reversible damage.

Ingestion: Acute: Gastrointestinal irritation, nausea, vomiting and diarrhea; kidney damage, blood system damage.

Chronic: Repeated overexposure to these products may cause central nervous system damage, kidney damage, liver abnormalities, lung damage, cardiac abnormalities, reproductive organ damage, skin sensitization and dermatitis.

Other Health Effects: Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.

Section 4 - First Aid Measures

Emergency and First Aid Procedures: In all cases if symptoms persist, seek medical attention.

Inhalation - move to fresh air, give artificial respiration if necessary.

Skin contact - remove contaminated clothing, wash with soap and water or recognized skin cleaner. Do not use solvents or thinners.

Eye contact - contact lenses must be removed, flush with water for at least 15 minutes, consult a physician immediately.
Ingestion - drink one or two glasses of water to dilute. Do not induce vomiting. Consult a physician or poison control center immediately. Treat symptomatically
Medical Conditions Prone to Aggravation: Pulmonary conditions, skin disorders, eye disorders, liver conditions, kidney conditions, neurological disorders, allergies, pregnancy, reproductive system disorders.

Section 5 – Fire Fighting Measures

Flash Point (SFCC): 82F (28C)

Lower Explosive Limit: 1.1

Extinguishing Media: foam, carbon dioxide, dry chemical or water fog or spray. Water jet or stream is unsuitable.

Unusual Fire and Explosion Hazards: Invisible vapors may travel to source of ignition and flash back. Since vapors are heavier than air, dangerous concentrations may not be apparent to casual observation. Keep containers tightly closed, isolate from heat, electrical equipment, sparks and open flame. Closed containers may explode when exposed to extreme heat. Fire will produce dense black smoke containing hazardous products of combustion. Symptoms may not be immediately apparent. Obtain medical attention.

Special Fire Fighting Procedures: Water should be used to cool containers exposed to fire. Fire fighting personnel should wear self-contained breathing apparatus.

Section 6 – Accidental Release

Steps To Be Taken In Case Material Is Released Or Spilled: Remove all sources of ignition. Avoid breathing vapors, ventilate confined area. Remove with inert absorbent using non-sparking tools. If necessary report to applicable government agency.

Section 7 – Handling and Storage

Precautions To Be Taken In Handling And Storing: Minimize contact between the worker and this material. Do not transfer to unlabeled containers. No smoking. Store containers out of sun and away from heat, sparks, and open flames. Close all containers after each use. Consult NFPA and local codes for additional storage requirements.

Hygienic Practices: Do not eat, drink or smoke in work areas. Wash hands before eating, smoking, or using the washroom. Launder clothing before reuse.

Other Precautions: Vapors are heavier than air and may travel along floors. Use explosion proof equipment in areas where there is spraying or open containers. Do not take internally. Observe label precautions. Keep closures tight and container upright to prevent leakage. Avoid breathing sanding dust. The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks as required by regulations.

Section 8 – Exposure Controls

Primary Routes of Entry: Inhalation, skin contact, ingestion, eyes.

Personal Protective Equipment: In cases where no monitoring for airborne contaminants has been carried out, assume maximum exposure and use antistatic paint suit, goggles, gloves, and air supplied respiratory equipment. All personal protective equipment should meet NIOSH or OSHA requirements.

Respiratory Protection: If monitoring demonstrates levels below TLV or PEL wear a NIOSH/MSHA approved respirator device. See safety equipment supplier for evaluation and recommendation.

Ventilation: Provide sufficient ventilation to keep vapor concentration below the given TLV and/or PEL.

Protective Gloves: Required for prolonged or repeated contact. Use solvent resistant gloves. Barrier creams are not substitutes for full physical protection. Refer to safety equipment supplier for effective glove recommendations.

Eye Protection: Use safety goggles or face shield designed to protect against splash of liquids when working with open liquids such as during mixing or pouring.

Other Protective Equipment: Eye bath and shower should be available. Use chemical resistant apron, boots or other clothing if needed to avoid repeated or frequent contact. Liquid may penetrate shoes and leather causing delayed irritation.

Section 9 – Physical and Chemical Properties

Evaporation Rate: Slower than ether

Vapor Density: 3.6

Vapor Pressure: 4.5 mm Hg

Weight per Gallon (Specific Gravity): 9.0 lb/gal (1.08)

Odor and Appearance: organic odor, liquid

Freezing point, Coefficient of water/oil distribution ,pH: Not applicable or not available

Section 10 – Stability and Reactivity

Stability: Stable under non-emergency conditions.

Materials to Avoid: Alkalis, acids, oxidizers, alkali metals, halogenated solvents, nitric acid, halogen compounds, water, sodium hydroxide.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: High temperatures, flame, sparks, high humidity, light, water, moisture
Hazardous Decomposition Products: Oxides of carbon, toxic fumes, various hydrocarbons, aldehydes.

Section 11 - Toxicological Information

Carcinogenicity (risk of cancer): Styrene is listed by IARC as possibly carcinogenic to humans (Group 2B). The IARC 2B classification is not based on significant new evidence that styrene might be a carcinogen, but on a revised IARC classification scheme and new data on styrene oxide.

Sensitization (effects of repeated exposure): These products may cause skin and inhalation sensitization to certain individuals.

Teratogenicity (risk of malformation in an unborn fetus): None known

Reproductive Toxicity (risk of sterility): None known

Mutagenicity (risk of heritable genetic effects): Mutation data has been reported for styrene.

Threshold Limit Value: None established for this product. For further information, see Section 2 - Hazardous Ingredients

Section 12 - Ecological Information

General Information: Avoid runoff into ground, storms or sewer that lead into waterways. Water runoff can cause environmental damage. The nature and packaging size of these products minimizes the potential for adverse ecological impact.

Environmental Impact Data (percentage by weight):

Ozone Depleters: none Heavy Metals: none See individual compositions, section 2. There are extensive ecological data available on the various components of these products. An adequate representation of all these data is beyond the scope of this document. Please contact the information phone number found in Section 1.

Section 13 - Disposal Information

Waste Disposal Method: Dispose of in accordance with federal, state or provincial and local pollution requirements. Clean-up preferably with a detergent, avoid the use of solvents. This information applies only to the material as manufactured; processing, use or contamination may make this information inappropriate, inaccurate or incomplete. The generator of the waste has the responsibility for proper waste classification, transportation and disposal.

Other Information: When discarded the bodyfillers meet the hazard criteria of "ignitability" and must be considered as hazardous waste D001.

Section 14 - Transportation Information

US Ground Shipments:

Consumer Commodity ORM-D

Section 15 - Regulatory Information

OSHA: These products are considered hazardous under the Federal OSHA Hazard Communication Standard.

WHMIS: B2;D1A;D2A

SARA Title III:

Section 302 Extremely Hazardous Substances: None

Section 311 / 312 Hazard Categories: Immediate health, delayed health, fire hazard.

Section 313 Toxic Chemicals: styrene. You may be required to submit this MSDS to state and local emergency response agencies (SERC & LEPC) and to your local fire department. Also, you may be affected by other sections of this law, depending on the chemicals and amounts that you inventory at your location. To learn more about your responsibilities, call the EPA Hotline (800) 535-0202.

TSCA status: All ingredients are TSCA registered.

Proposition 65: WARNING: This product contains a chemical known to the State of California to cause cancer.

NFPA704: Health: 2 Flammability: 2 Reactivity: 0

Section 16 - Preparation Information

Prepared by Bondo Corporation Research and Development Department

Phone: 404-696-2730

Do not handle until the manufacturer's safety precautions have been read and understood. Regulations require that all employees be trained on Material Safety Data Sheets for all products with which they come in contact.

While Bondo Corporation believes that the data contained herein are accurate and derived from qualified sources, the data are not to be taken as a warranty or representation for which Bondo Corporation assumes legal responsibility. They are offered solely for your consideration, investigation and verification. Any use of these data and information must be determined by the user to be in accordance with applicable federal, state, provincial and local laws and regulations.

MATERIAL SAFETY DATA SHEET

BONDO/MAR-HYDE CORPORATION
3700 ATLANTA INDUSTRIAL PARKWAY, N.W.
ATLANTA, GA 30331
404-696-2730

FOR TRANSPORTATION EMERGENCIES, CALL CHEMTREC 800-424-9300

SECTION I - PRODUCT IDENTIFICATION

Product Name: #3C, 7, 11, 13, 410, 410C, 411, 411C, 455, 455C, 609, 611, 611C, 617, 912, 912C, 3912, 3912C, 20126, 63912 Liquid Hardener

Chemical Family: Organic Peroxides/Ketone Peroxides

DOT Proper Shipping Name: #3C, 7, 410C, 411, 411C, 455C, 611, 611C, 617, 912C, 3912C - Organic Peroxide, Type D, Liquid (Methyl Ethyl Ketone Peroxide 35%); #11, 410, 455, 609, 912, 3912, 20126, 63912 - Consumer Commodity

DOT Hazard Class: #3C, 7, 410C, 411, 411C, 455C, 611, 611C, 617, 912C, 3912C - 5.2;

#11, 410, 455, 609, 912, 3912, 63912 - ORM-D

DOT Identification Number: #3C, 7, 410C, 411, 411C, 455C, 611, 611C, 617, 912C, 3912C - UN 3105;

#11, 410, 455, 609, 912, 3912, 63912 - None

Packing Group: #3C, 7, 410C, 411, 411C, 455C, 611, 611C, 617, 912C, 3912C - II

SECTION II - HAZARDOUS INGREDIENTS AND OTHER COMPONENTS

<u>Ingredient</u>	<u>% By Weight</u>	<u>Exposure Limits</u>	<u>CAS #</u>
Methyl Ethyl Ketone Peroxide	30-35	0.7 ppm-ceiling	1338-23-4
Hydrogen Peroxide	0-5	1 ppm-ACGIH-TWA-OSHA	7722-84-1
Diethyl Phthalate	55-60	5 mg/m ³ -TWA 10 mg/m ³ -STEL	131-11-3

SECTION III - REACTIVITY DATA

Boiling Point: NA

Specific Gravity: 1.17

Vapor Pressure: ND

Percent Volatile By Wt.: NA

Vapor Density (AIR=1): ND

Evaporation Rate (Bu Ace=1): ND

Solubility in Water: Insoluble

Appearance/Odor: Clear, or Red
Liquid/Faint Ketone
Odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point: 180°F (82°C) (SETA CC)

Flammable Limits: ND

Extinguishing Media: Water fog or spray, CO₂, dry chemical, foam

Special Fire Fighting Procedures: Evacuate area and apply water from a safe distance. Spray water on the nearby peroxide containers to prevent overheating.

Unusual Fire and Explosion Hazards: Peroxides and decomposition products are flammable and can ignite with explosive force if confined.

SECTION V - REACTIVITY DATA

Stability: Unstable

Conditions Contributing to Instability: Thermal decomposition, contamination

Incompatibility (Materials to Avoid): Strong acids, strong alkalies, strong oxidizers, reducing agents, accelerators

Hazardous Decomposition Products: On decomposition, peroxides can produce flammable and toxic vapors.

Hazardous Polymerization: Will not occur

Conditions to Avoid: Ignition sources, temperatures above 140°F (60°C). Recommended maximum storage temperature: 104°F (40°C).

SECTION VI - SPILL OR LEAK PROCEDURES

Steps To Be Taken In Case Material Is Released Or Spilled: Avoid skin contact. Absorb with sand or inert material. Remove saturated absorbent with non-sparking tools. Prevent spread of spill.

Waste Disposal Method: Dispose in accordance with Federal, State and Local regulations.

SECTION VII - HEALTH HAZARD DATA

Primary Route(s) of Entry:

Eye Contact
Skin Contact
Inhalation

Carcinogenicity:

None of the components of this material are listed as carcinogens by NTP, IARC or OSHA.

Effects of Overexposure:

Eyes: Contact may cause severe eye damage.

Skin: Skin contact may cause irritation and redness.

Inhalation: Vapors are corrosive to nose, throat and lungs.

Ingestion: Very corrosive; may be harmful or fatal.

Emergency and First Aid Procedures:

Eyes: Immediately flush with water for at least 15 minutes. Contact lenses should be removed if the initial flush does not wash them out. Get medical attention. Immediate first aid is needed to prevent eye damage.

Skin: Remove contaminated clothing immediately. Wash affected skin thoroughly with soap and water for at least 15 minutes. Seek medical attention if indicated. Launder clothing before reuse.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. Give oxygen if needed. Get medical attention if indicated.

Ingestion: Do not induce vomiting. Rinse mouth with water. Get medical attention immediately.

SECTION VIII - SPECIAL PROTECTION INFORMATION

Respiratory Protection: NIOSH approved with organic vapor cartridges to reduce high contaminant concentrations in inhaled air. Respirator selection depends upon type and magnitude of exposure.

Ventilation: Sufficient in volume and pattern to prevent excessive accumulation of vapors

Eye Protection: Chemical splash goggles

Protective Gloves: Neoprene or nitrile rubber

Other Protective Equipment: Safety showers and eye wash stations should be available. Chemical resistant apron or coveralls may be needed.

Hygienic Practices: Wash hands with soap and water after every usage.

SECTION IX - SPECIAL PRECAUTIONS

Precautions To Be Taken in Handling and Storage:

Keep away from all sources of heat and ignition such as radiators, steam pipes and direct sunlight. Do not store near combustibles. Do not get in eyes, on skin or clothing. Do not breathe vapors. Keep containers closed. Empty containers may contain hazardous residues.

SECTION X - SUPPLEMENTAL INFORMATION

Regulatory Information:

VOC: No VOC

SARA Title III:

Dimethyl phthalate is listed as a SARA toxic chemical and is subject to the reporting requirements of section 313 Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

TSCA: All ingredients in this product are listed on the TSCA Inventory.

HMIS: Health - 2 Flammability - 2 Reactivity - 2

Prepared/Revised By: Safety/Environmental Services

Date: July 6, 1999

All statements, technical information, and recommendations contained herein are based upon available scientific tests or data which we believe to be reliable. Since we cannot anticipate all conditions under which this information and our products or the products of other manufacturers in combination with our products may be used, Bondo/Mar-Hyde makes no warranties, express or implied, and assumes no responsibility in connection with any use of this information.