

## Material Safety Data Sheet

Material Name: RP-105B/RP-106 Curing Agent

ID: Amer-014

The MSDS format adheres to the standards and regulatory requirements of the United States and may not meet regulatory requirements in other countries.

### \*\*\* Section 1 - Chemical Product and Company Identification \*\*\*

Part Number: NA

Chemical Name: Organic Peroxide

Product Use: Curing agent in Polyester Resin Kit

Synonyms: Dibenzoyl Peroxide

#### Manufacturer Information

Ameron International Fiberglass Div  
1004 Ameron Road  
P. O. Box 878  
Burkburnett, TX 76354

Phone #: (940) 569-1471  
Fax #: (940) 569-2764  
Chemtrec 24 hr Emergency #: (800) 424-9300

### \*\*\* Section 2 - Composition / Information on Ingredients \*\*\*

CAS#	Components	Percent
94-36-0	Dibenzoyl Peroxide	40
84-74-2	Di-n-butyl Phthalate	40
7732-18-5	Water	15
1592-23-0	Octadecanoic Acid, Calcium Salt	1.9
68611-44-9	Silane, Dichlorodimethyl-, reaction products with silica	1.3

#### Component Information/Information on Non-Hazardous Components

This product is considered hazardous under 29 DFR 1910.1200 (Hazard Communication).

### \*\*\* Section 3 - Hazards Identification \*\*\*

**Emergency Overview: Danger!** Strong oxidizer. Contact with other material may cause fire. Extremely explosion-sensitive to shock, heat and friction. Extremely flammable. Unstable at elevated temperatures. Harmful if swallowed or inhaled. Allergen. Exposure may produce allergic response. Causes irritation to skin, eyes, and respiratory tract.

**Hazard Statements: WARNING!** Organic peroxide causes eye irritation. May cause allergic skin reaction. Possible birth defect hazard. May cause birth defects based on animal data. May cause adverse reproductive effects based on animal data.

**Potential Health Effects: Eyes;** Vapor or mist causes eye irritation. Splashes cause severe irritation with stinging pain and tears.

**Potential Health Effects: Skin;** Causes irritation with redness and pain, and skin sensitization in some individuals. Stinging or burning sensation may occur for a brief time after application to skin.

**Potential Health Effects: Ingestion;** Causes irritation to the gastrointestinal tract. Symptoms may include nausea, vomiting, diarrhea, headache, irritation and tearing of the eyes

**Potential Health Effects: Inhalation;** Decomposition products are toxic and inhalation of the products can produce life threatening health effects. May be irritating to the eyes, and may cause discomfort of the nose, throat and upper respiratory tract, with coughing and choking.

**HMIS RATINGS: Health: 2 Fire: 2 Reactivity: 2 Pers. Prot.:**

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

### \*\*\* Section 4 - First Aid Measures \*\*\*

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**First Aid: Eyes;** Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

**First Aid: Skin;** Immediately flush skin with plenty of soap and water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

**First Aid: Ingestion;** Induce vomiting as directed by medical personnel, get medical attention immediately.

**First Aid: Inhalation;** Remove to fresh air. Get medical for any breathing difficulty.

### \*\*\* Section 5 - Fire Fighting Measures \*\*\*

**Flash Point:** 104°F (Benzoyl Peroxide)

**Method Used:** CC

**Upper Flammable Limit (UFL):** 2.5% (Dibutyl Phthalate)

**Lower Flammable Limit (LFL):** 0.5% (Dibutyl Phthalate)

**Auto Ignition:** 176°F (Benzoyl Peroxide)

**Flammability Classification:** Extremely

**General Fire Hazards:**

Substance is a strong oxidizer and a strong supporter of combustion.

**Extinguishing Media:**

Dry Chemical or carbon dioxide. Water to cool containers. Water or foam may cause frothing

**Fire Fighting Equipment/Instructions:**

Wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face shield operated in the pressure demand or other positive pressure mode.

**NFPA Ratings: Health: 2 Fire: 2 Reactivity: 2 Other: Oxidizer**

Hazard Scale: 0 = Minimal 1= Slight 2= Moderate 3= Serious 4 = Severe

### \*\*\* Section 6 - Accidental Release Measures \*\*\*

**Containment Procedures:** Contain discharged material

**Clean-Up Procedures:** Remove all sources of ignition, ventilate area of leak or spill. Spill can be mixed with water-wetted vermiculite, swept up and then placed into appropriate plastic containers for immediate disposal. The sweepings should be wetted down further with water, disposing of immediately. Once material has been collected, wash down area with detergent and water.

**Evacuation Procedures:** NA

**Special Procedures:** NA

### \*\*\* Section 7 - Handling and Storage \*\*\*

**Handling Procedures:** Avoid strong acids, strong alkalis, polymerization accelerators (Cobalt Naphthanates, DMA, DEA.) Keep away from heat sparks and flame. Avoid contamination. Use with adequate ventilation and explosion proof equipment. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

**Storage Procedures:** Stores best below 80°F, shelf life 1 year. Store out of direct sunlight in a cool well-ventilated place. Store away from combustibles and incompatible materials.

### \*\*\* Section 8 - Exposure Controls / Personal Protection \*\*\*

**Exposure Guidelines:** Benzoyl Peroxide OSHA PEL 5mg/m<sup>3</sup>; ACGIH TLV 5 mg/m<sup>3</sup>

Dibutyl Phthalate: OSHA PEL 5mg/m<sup>3</sup>; ACGIH TLV 5 mg/m<sup>3</sup>

**Engineering Controls:** A system of local and /or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits.

#### PERSONAL PROTECTIVE EQUIPMENT

**Personal Protective Equipment: Eyes/Face;** Safety glasses

**Personal Protective Equipment: Skin;** Rubber gloves, appropriate chemical resistant protective clothing.

**Personal Protective Equipment: Respiratory;** Ventilation requirements or mist vapor mask

**Personal Protective Equipment: General;** Good personal hygiene

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### \*\*\* Section 9 - Physical & Chemical Properties \*\*\*

<b>Appearance:</b>	White paste, faint odor	<b>Odor:</b>	Faint
<b>Physical State:</b>	Paste	<b>pH:</b>	NA
<b>Vapor Pressure:</b>	NA	<b>Vapor Density:</b>	NA
<b>Boiling Point:</b>	(Benzoyl Peroxide) Decomposes explosively above 55°C	<b>Melting Point:</b>	0°C
<b>Solubility (H<sub>2</sub>O):</b>	Slight	<b>Specific Gravity:</b>	1.334 @ 25°C
<b>Freezing Point:</b>	0°C	<b>Particle Size:</b>	NA
<b>Softening Point:</b>	NA	<b>Evaporation Rate:</b>	NA
<b>Viscosity:</b>	11,200-14,400 cps @ 25°C	<b>Bulk Density:</b>	NA
<b>Percent Volatile:</b>	NA	<b>Molecular Weight:</b>	NA

#### Physical Properties:

**Active Oxygen Content:** 2.64%  
**SADT:** 55°C/137°F

### \*\*\* Section 10 - Chemical Stability & Reactivity Information \*\*\*

**Chemical Stability:** Unstable, should be handled under specified conditions.

**Chemical Stability: Conditions to Avoid:** excessive heat; contaminates; ignition sources

**Incompatibility:** Strong acids, bases, oxidizers, amines, reducing agents, and promoters/accelerators. Contact with these may result in a violent decomposition reaction or in product degradation.

**Hazardous Decomposition:** Temperatures at or above the SADT can result in the release of hazardous decomposition products which are flammable and may autoignite.

**Hazardous Polymerization:** Does not occur.

### \*\*\* Section 11 - Toxicological Information \*\*\*

#### Acute Toxicity

**A: General Product Information:** NA

**B: Component LD50/LC50:** Oral LD<sub>50</sub> >950 to 5,000 mg/kg (Rats); LC<sub>50</sub> - 4 hr > 22.4 mg/L (Rats)

#### Carcinogenicity

**A: General Product Information:** A preliminary epidemiology study found no evidence that prior use of benzoyl peroxide was a risk factor for developing skin cancer.

**B: Component Carcinogenicity:** NA

**Epidemiology:** NA

**Neurotoxicity:** NA

**Mutagenicity:** NA

**Teratogenicity:** Studies have shown that high doses of Di-n-butyl phthalate given orally to rats and mice during pregnancy were reported to produce minor abnormalities in the offspring and embryo/fetotoxic effects. Mice exposed in the diet for two generations experienced a decrease in number of litters, smaller litter sizes, a decrease in pregnancy rate and offspring born dead.

**Other Toxicological Information:** Oral dosing of Di-n-butyl phthalate or dietary administration at high levels of laboratory animals has produced degeneration of the testes, and in some cases, reduced fertility in a number of species.

### \*\*\* Section 12 - Ecological Information \*\*\*

**Ecotoxicity:** 96 hr LC<sub>50</sub> guppy (semi-static): 2.0 mg/L, moderately toxic.

**Environmental Fate:** Almost 60% biodegradation was reached after 28 days in the closed bottle ready biodegradability test.

### \*\*\* Section 13 - Disposal Considerations \*\*\*

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### US EPA Waste Number & Descriptions

**A: General Product Information:** Should be handled as hazardous waste and sent to an RCRA approved waste facility.

**B: Component Waste Numbers:** NA

**Disposal instructions:** Dispose of container and unused contents in accordance with federal, state and local requirements. Incineration is the recommended method for disposal.

### \*\*\* Section 14 - Transportation information \*\*\*

### US DOT Information

**Shipping Name:** Polyester Resin Kit

**Technical Shipping Name:** Dibenzoyl Peroxide <52%/ polyester resin

**Hazard Class:** 3

**UN/NA#:** UN3269

**Packing Group:** III

**Required Label(s):** Flammable Liquid

**Additional Info.:** NA

### International Transportation regulations

### \*\*\* Section 15 - Regulatory Information \*\*\*

### US Federal Regulations

**A: General Product Information:** NA

**B: Component Information:**

This product contains the following toxic chemical(s) subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372).

**Di-n-butyl phthalate (CAS# 84-74-2) % by weight: 40**

**Dibenzoyl peroxide (CAS# 94-36-0) % by weight: 40**

### State Regulations

**A: General Product Information**

No additional information

**B: Component Information**

Component	CAS#	CA	FL	MA	MN	NJ	PA
Dibenzoyl Peroxide	#94-36-0	N	Y	Y	Y	Y	Y
Di-n-butyl Phthalate	#84-74-2	Y	Y	Y	Y	Y	Y

### Other Regulations

**A: General Product Information**

No additional information

**B: Component Information**

No additional information

### \*\*\* Section 16 - Other Information \*\*\*

### Other Information

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Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use.

### Key/Legend

NA = Not Applicable; NE = Not Established; EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; SADT = Self Accelerating Decomposition Temperature.

**Contact Person:** Douglas Boberg

**Contact Phone:** (940) 569-1471

**This is the end of MSDA # Amer-014**