Safety Data Sheet

Issue Date: 22-Feb-2012 **Revision Date:** 08-Nov-2017 **Version** 1

1. IDENTIFICATION

Product Identifier
Product Name Add&Bond™

Other means of identification
SDS # S260, S261
UN/ID No UN1993

Recommended use of the chemical and restrictions on use
Recommended Use Adhesive Composite Primer.

Details of the supplier of the safety data sheet
Supplier Address
Parkell, Inc.
300 Executive Drive
Edgewood, NY 11717

Emergency Telephone Number
Company Phone Number (631) 249-1134
Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Viscous liquid **Physical State** Liquid **Odor** Mild, musty odor

Classification

Skin sensitization	Category 1
Flammable Liquids	Category 2

Hazards Not Otherwise Classified (HNOC)
Causes mild skin irritation

Signal Word
Danger

Hazard Statements
May cause an allergic skin reaction
Highly flammable liquid and vapor

Precautionary Statements - Prevention
Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing should not be allowed out of the workplace
Keep away from heat/sparks/open flames/hot surfaces. — No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use explosion-proof equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
If skin irritation or rash occurs: Get medical advice/attention
IN CASE OF FIRE: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage
Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

Other Hazards
Harmful to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Uncured Methacrylate Ester Monomers	Proprietary	Proprietary

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

First Aid Measures

Eye Contact Check for and remove any contact lenses. Immediately flush the eyes with running water for at least 20-30 minutes, keeping eyelids open and retracting eyelids often. Cold water may be used. Do not use an eye ointment. Seek medical attention if pain, blinking, tears, or redness persists.

Skin Contact IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.

Inhalation Remove to fresh air. Loosen tight clothing such as collar, tie, belt, or waistband. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Immediately call a poison center or doctor/physician.

Ingestion Remove dentures, if any. Have a conscious person drink several glasses of water or milk. Do not induce vomiting without medical advice. Immediately call a poison center or doctor/physician.

Most important symptoms and effects

Symptoms May cause an allergic skin reaction. Causes mild skin irritation. May be irritating to the eyes. May be irritating to respiratory tract. May be irritating to the mouth, throat and stomach.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Dry chemical. Carbon dioxide (CO2). Water spray (fog). Foam.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical
Highly flammable liquid and vapor. High temperatures, inhibitor depletion, accidental impurities, or exposure to radiation or oxidizers may cause spontaneous polymerizing reaction generating heat/pressure. Closed containers may rupture or explode during a runaway polymerization. Use a water spray or fog to reduce or direct vapors. Water may not be effective in actually extinguishing a fire involving this product.

Hazardous Combustion Products Carbon monoxide. Carbon dioxide (CO2).

Sensitivity to Static Discharge Take precautionary measures against static discharge.

Protective equipment and precautions for firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Do not enter fire area without proper protection, decomposition products possible. Fight fire from safe distance/protected location. Heat/impurities may increase temperature, build pressure, and/or rupture closed containers, spreading fire and increasing risk of burns or injuries.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Use personal protection recommended in Section 8.

For Emergency Responders Spilled or released material may polymerize and release heat/gases. Extinguish all ignition sources and ventilate area.

Environmental Precautions Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. See Section 13: DISPOSAL CONSIDERATIONS.

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up Contain and collect with an inert absorbent and place into an appropriate container for disposal. Wash spill area with a strong detergent and water solution; rinse with water, but minimize water use during clean-up. Do not flush to sewer.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Wash face, hands, and any exposed skin thoroughly after handling. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion proof equipment. Use non-sparking tools. Take precautionary measures against static discharges. Do not use localized heat sources such as band heaters to heat/melt product.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed and store in a cool, dry and well-ventilated place. Prevent contamination by foreign materials. Protect from moisture.

Packaging Materials Product is packaged with inhibitor(s).

Incompatible Materials Strong oxidizers. Strong reducers. Free radical initiators. Inert gases. Oxygen scavengers. Metals. Acids. Alkalis.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Uncured Methacrylate Ester Monomers	STEL: 100 ppm TWA: 50 ppm	TWA: 100 ppm TWA: 410 mg/m^3 (vacated) TWA: 100 ppm (vacated) TWA: 410 mg/m^3	IDLH: 1000 ppm TWA: 100 ppm TWA: 410 mg/m^3

Appropriate engineering controls

Engineering Controls Ensure adequate ventilation, especially in confined areas. Eyewash stations. Showers.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Wear splash goggles and face shield.

Skin and Body Protection Wear protective gloves.

Respiratory Protection NIOSH/MSHA approved respiratory protection should be used.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid		
Appearance	Viscous liquid	**Odor**	Mild, musty odor
Color	Not determined	**Odor Threshold**	Not determined

Property	Values	Remarks • Method
pH	6.8 - 7.2	
Melting Point/Freezing Point	Not determined	
Boiling Point/Boiling Range	100 °C / 212 °F	
Flash Point	13 °C / 55 °F	Pensky-Martens Closed Cup (PMCC)
Evaporation Rate	Not determined	
Flammability (Solid, Gas)	Not determined	
Upper Flammability Limits	12.5%	
Lower Flammability Limit	2.1%	
Vapor Pressure	29 mm Hg	@ 20°C (68°F)
Vapor Density	3.45	(Air=1)
Specific Gravity	1.19 - 1.20	@ 77°F (25°C) (Water = 1)
Water Solubility	Partially soluble in cold water	
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	
Auto-ignition Temperature	Not determined	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	
Dynamic Viscosity	Not determined	
Explosive Properties	Not determined	
Oxidizing Properties	Not determined	

10. STABILITY AND REACTIVITY

Reactivity
Not reactive under normal conditions.

Chemical Stability
Stable under recommended storage conditions.

Possibility of Hazardous Reactions
None under normal processing.

Hazardous Polymerization Hazardous polymerization may occur.

Conditions to Avoid
Keep separated from incompatible substances. Avoid high temperatures, localized heat sources (ie, drum or band heater), oxidizing conditions, freezing conditions, direct sunlight, ultraviolet radiation, and inert gas blanketing. Keep out of reach of children.

Incompatible Materials
Strong oxidizers. Strong reducers. Free radical initiators. Inert gases. Oxygen scavengers. Metals. Acids. Alkalis.

Hazardous Decomposition Products
Acrid smoke fumes, carbon monoxide, carbon dioxide, and perhaps other toxic vapors may be released during a fire involving this product.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact Avoid contact with eyes.

Skin Contact May cause an allergic skin reaction. Causes mild skin irritation.

Inhalation Avoid breathing vapors or mists.

Ingestion Do not ingest.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Triethylene Glycol Dimethacrylate 109-16-0	= 10837 mg/kg (Rat)	-	-
Uncured Methacrylate Ester Monomers	= 7872 mg/kg (Rat)	> 5 g/kg (Rabbit)	= 4632 ppm (Rat) 4 h = 400 ppm (Rat) 1 h

Information on physical, chemical and toxicological effects

Symptoms Please see section 4 of this SDS for symptoms.

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

Carcinogenicity Group 3 IARC components are "not classifiable as human carcinogens".

Chemical Name	ACGIH	IARC	NTP	OSHA
Uncured Methacrylate Ester Monomers		Group 3		

Legend

IARC (International Agency for Research on Cancer)

Group 3 IARC components are "not classifiable as human carcinogens"

Numerical measures of toxicity

Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life with long lasting effects.

Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Uncured Methacrylate Ester Monomers	170: 96 h Pseudokirchneriella subcapitata mg/L EC50	243 - 275: 96 h Pimephales promelas mg/L LC50 flow-through 125.5 - 190.7: 96 h Pimephales promelas mg/L LC50 static 170 - 206: 96 h Lepomis macrochirus mg/L LC50 flow-through 153.9 - 341.8: 96 h Lepomis macrochirus mg/L LC50 static 79: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 79: 96 h Oncorhynchus mykiss mg/L LC50 static 326.4 - 426.9: 96 h Poecilia reticulata mg/L LC50 static		69: 48 h Daphnia magna mg/L EC50

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Chemical Name	Partition Coefficient
Uncured Methacrylate Ester Monomers	0.7

Other Adverse Effects
Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and regulations.

US EPA Waste Number

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Uncured Methacrylate Ester Monomers	U162	Included in waste stream: F039		U162

California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Uncured Methacrylate Ester Monomers	Toxic Ignitable

14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT
UN/ID No UN1993
Proper Shipping Name Flammable liquid, n.o.s. (Methyl methacrylate monomer)
Hazard Class 3
Packing Group II

IATA
UN/ID No UN1993
Proper Shipping Name Flammable liquid, n.o.s. (Methyl methacrylate monomer)
Hazard Class 3
Packing Group II

IMDG
UN/ID No UN1993
Proper Shipping Name Flammable liquid, n.o.s. (Methyl methacrylate monomer)
Hazard Class 3
Packing Group II
Marine Pollutant This material may meet the definition of a marine pollutant

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Uncured Methacrylate Ester Monomers	Present	X		Present		Present	X	Present	X	X

Legend:

TSCA *- United States Toxic Substances Control Act Section 8(b) Inventory*

DSL/NDSL *- Canadian Domestic Substances List/Non-Domestic Substances List*

EINECS/ELINCS *- European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*

ENCS *- Japan Existing and New Chemical Substances*

IECSC *- China Inventory of Existing Chemical Substances*

KECL *- Korean Existing and Evaluated Chemical Substances*

PICCS *- Philippines Inventory of Chemicals and Chemical Substances*

AICS *- Australian Inventory of Chemical Substances*

US Federal Regulations

CERCLA

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Uncured Methacrylate Ester Monomers	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

SARA 313

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Uncured Methacrylate Ester Monomers -		Proprietary	1.0

CWA (Clean Water Act)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Uncured Methacrylate Ester Monomers	1000 lb			X

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Uncured Methacrylate Ester Monomers	X	X	X

16. OTHER INFORMATION

NFPA	**Health Hazards**	**Flammability**	**Instability**	**Special Hazards**
	Not determined	Not determined	Not determined	Not determined
HMIS	**Health Hazards**	**Flammability**	**Physical Hazards**	**Personal Protection**
	2	3	3	Not determined

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Disclaimer

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.

End of Safety Data Sheet