

MATERIAL SAFETY DATA SHEET

Section 1. Product and Company Identification

Product Name: IBD PowerBond DATE: 11/11/2010
 Formula: 56501 REV. 02
 Item#: 30-2304

Manufacturer: American International Industries
 2220 Gaspar Ave
 Los Angeles, CA 90040
 Chem-Tel: (800) 255-3924

Section 2. Composition / Information on Ingredients

Composition:

Component	CAS # / EINECS#	%	Exposure Limits ppm	
			ACGIH-TWA	OSHA-PEL
Ethyl Acetate	141-78-6	80 - 85	OSHA TWA/STEL: 400ppm	
	205-500-4		ACGIH TWA/STEL: 400ppm	
Isopropylidenediphenyl Bisoxhydroxypropyl Methacrylate	216-367-7	5 - 10	OSHA TWA/STEL: N/E	
	216-367-7		ACGIH TWA/STEL: N/E	
HEMA	868-77-9	5 - 10	OSHA TWA/STEL: N/E	
	212-782-2		ACGIH TWA/STEL: N/E	

Section 3. Hazardous Identification

Emergency Overview

This information may be based on findings from related similar materials.

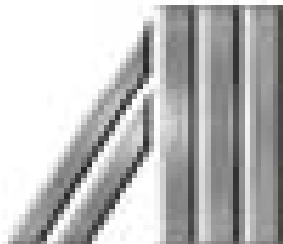
- May cause eye irritation.
- Flammable liquid and vapor!
- May cause skin irritation.
- Avoid prolonged or repeated breathing of gases, vapors or mists.
- Unstable (reactive) upon depletion of inhibitor. This is only a slight risk.
- May be absorbed through the skin.

Potential Health Effects, Signs and Symptoms of Exposure:

Primary Route of Entry: Inhalation, skin contact, eye contact

Eye: Exposure causes eye irritation. Symptoms include stinging, tearing, redness and swelling.

Skin: Can cause skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, drying, cracking, and skin burns.



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Ingestion: Swallowing small amounts during normal handling is not likely to cause harmful effects; swallowing large amounts may be harmful. This material can get into the lungs during swallowing or vomiting.

Inhalation: Vapor and mist are irritating to mucous membranes. Breathing small amounts during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms usually occur at air concentrations higher than the recommended exposure limits.

Sub - Chronic Effects: May cause headaches, nausea, vomiting and narcotic effect if over-exposed.

Chronic Health Effects: No appropriate human or animal health effects data are known to exist.

Section 4. First Aid Measures

First Aid for Eye: If symptoms develop, move individual away from exposure and into fresh air. Flush eyes gently for 15 min. with water while holding eyelids apart. If symptoms persist or there is any visual difficulty, seek medical attention.

First Aid for Skin: Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention.

First Aid for Inhalation: Remove to fresh air. If breathing is difficult, administer oxygen. If symptoms persist, seek medical attention.

First Aid for Ingestion: If individual is drowsy or unconscious, do not give anything by mouth; place individual on the leftside with the head down. Seek medical attention for advice about whether to induce vomiting. If possible, do not leave individual unattended.

Section 5. Fire Fighting Measures

Flash Point (°F/°C): TAG Closed: 26°F / -3.3°C

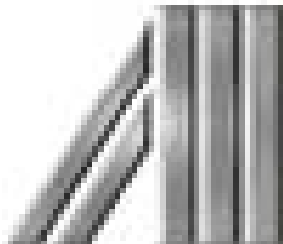
Flammable Limit (vol%): 400 ppm

Auto-ignition Temp. (vol%): 750°F - 900°F

Extinguisher Media: Foam, dry chemical, cold water spray.

Fire Fighting Instructions: Wear self-contained breathing apparatus and protective clothing. USE WATER WITH CAUTION. Water spray may be used to keep fire-exposed containers cool. Water may be ineffective in fighting the fire. Fight fire from a safe distance and protected location.

Unusual Hazards: Flammable. When exposed to heat and flame, material is a fire explosion hazard. It may produce toxic product CO, carbon dioxide. Vapors may cause a flash fire or ignite explosively. Vapors may travel a considerable distance to a source of ignition and flash back. Prevent buildup of vapors or gases to explosive concentrations.



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Section 6. Accidental Release Measures

Spill or Release Procedures: Eliminate all sources of heat and ignition. Use absorbent material for spills and dike it, wash spill material into retaining containers. Place containers in a well ventilated area. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations. Keep unnecessary and unprotect personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e.g. , vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer! US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center (800) 424-8802. If a leak or spill has not ignited, use water spray to disperse the vapors, to protect personnel attempting to stop leak, and to flush spills away from exposures.

Section 7. Handling and Storage

Handling: Keep containers cool and dry. Keep away from heat, light and ignition sources. Avoid breathing high vapor concentrations. Avoid prolonged or repeated contact with skin. Use only with adequate ventilation. Wash skin thoroughly after handling.

Storage: Store in well ventilated area. Store @ 70 + 15°F, allow some air space above liquid level. Keep containers closed while not in use.

Explosion Hazard: Vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking or other ignition sources at locations distant from material handling point. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

Section 8. Exposure Controls / Personal Protective Equipment

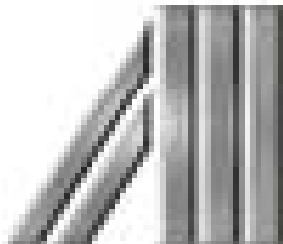
Engineering Controls: Facilities storing or utilizing this material should be equipped with an eye facility and safety shower. Use process enclosures local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof ventilation equipment.

Personal Protective Equipment

General To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132), or European Standard EN166 be conducted before using this product. Provide eye wash stations and safety showers. Wear impervious clothing to prevent ANY contact with this product, such as gloves, apron, boots, or whole body suit. Nitrile rubber is better than PVC.

Eye/ Face Protection: Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type of safety glasses.

Skin Protection: Wear resistant gloves. To prevent repeated or prolonged skin contact, wear impervious clothing and boots.



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Respiratory Protection: A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain limited circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions. Follow OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149.

Section 9. Physical and Chemical Properties

Appearance @ 25°C:	Clear liquid	Boiling Point/Freezing Point:	N/DA
Odor @ 25°C:	Ester like odor	Vapor Pressure:	N/DA
pH	N/A	Vapor Density:	1
VOC (g/L)	736	Evaporation Rate:	NA
Specific Gravity:	0.92		
Viscosity:	15 cps		
% Volatile (W/W%)	50+		
Decomposition Temperature:	N/DA		
Octanol/Water Partitioning Coefficient Log Po/w:	N/DA		
Ignition:	N/A		
Solubility in Water:	Insoluble		

Section 10. Stability and Reactivity

Stability: Stable

Hazardous Decomposition Products:

Heated material produces NO₂, CO₂, CO

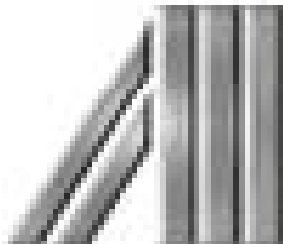
Incompatibility (Materials to Avoid):

Avoid oxidizing agents, acids & bases (heat)

Hazardous Polymerization:

May occur

Conditions to Avoid: Heat, flame, ignition sources.



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Section 11. Toxicological Information

Acute Oral Toxicity: Oral LD50 (rat): 4.0-6.0 g/kg

Acute Dermal Toxicity:

Dermal LD50 (rabbit): >20 mL/kg

Acute Inhalation Toxicity:

Inhalation LC50 (rat): 3500-8000 ppm/4 hours

Irritation - Skin: Rabbit: slight

Irritation - Eye: Rabbit: slight

Since this product contains a mixture of active components, the primary toxicological information is derived from the acetates. Further hazardous properties cannot be excluded. The product should be handled with care when dealing with chemicals.

Sensitization: N/DA

Mutagenicity: E.Coli: DNA Damage: 20 mol/L

Sub-chronic Toxicity: N/DA

Section 12. Ecological Information

Ecotoxicological Information

Acute Toxicity to Fish:

No data available

Acute Toxicity to Invertebrates:

No data available

Acute Toxicity to Algae

No data available

Bioconcentration: No data available

Toxicity to Sewage Bacteria:

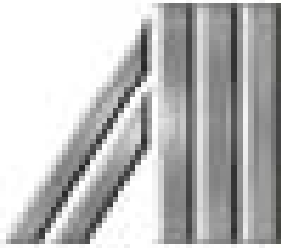
No data available

Chemical Fate Information

Biodegradability: No data available

Chemical Oxygen Demand:

No data available



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To the best of our knowledge, the ecotoxicological and chemical fate properties have not been thoroughly investigated. Do not allow to enter drinking water suppliers, wastewater, or soil.

Section 13. Disposable Considerations

Dispose of diking materials and absorbent in compliance with State, Local, and Federal regulations. Residual vapors may explode on ignition; do not cut, drill, or weld on or near the container. Mix with compatible chemical which is less flammable and incinerate.

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements. For EU Member States, please refer to any relevant Community provisions relating to waste. In their absence, it is useful to remind the user that national or regional provision may be in force.

Section 14. Transportation Information

DOT (49CFR 172)

Proper Shipping Name:	UN1263, Painted Related Material, 3, PGII
Identification Number:	UN1263
Marine Pollutant:	No
Special Provisions:	T8, T131
Emergency Response Guidebook (ERG)#:	128

IATA (DGR):

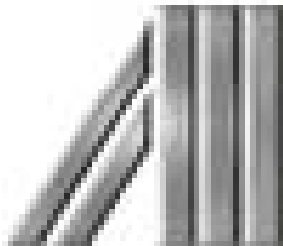
Proper Shipping Name:	UN1263, Painted Related Material, 3, PGII
Class or Division:	3
UN or ID Number:	UN1263
Packaging Instructions:	A3
Emergency Response Guidance (ICAO)#:	3L

IMO (IMDG):

Proper Shipping Name:	UN1263, Painted Related Material, 3, PGII
Class or Division:	3
UN or ID Number:	UN1263
Special Provisions & Stowage/Segregation:	None
Emergency Schedule (EmS)#:	307
Other Information:	Flash point -3.3°C

Section 15. Regulatory Information

Clean Air Act:	This product contains the following hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act:
HAP.ODS	<ul style="list-style-type: none"> •NONE This product contains no ODS's

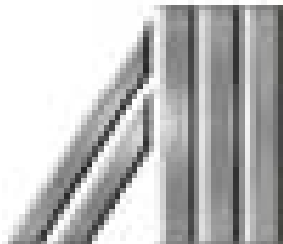


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Clean Water Act: Priority Pollutant	This product contains no chemicals listed under the U.S. Clean Water Act Priority Pollutant List.
FDA: Food Packaging Status	This product has not been cleared by the FDA for use in food packaging and / or other applications as an indirect food additive.
Occupational Safety and Health Act	This product is considered to be a hazardous chemical under the OSHA Hazard Communication Standard. Its hazards are: <ul style="list-style-type: none">▪ Immediate (acute) health hazard▪ Fire Hazard
RCRA	This product contains the following chemicals considered to be hazardous waste under RCRA (40 CFR 261): <ul style="list-style-type: none">▪ Ethyl Acetate CAS #141-78-6 RCRA CideL U112.
SARA Title III: Section 302 (TPQ)	This product contains no chemicals regulated under Sec. 302 as extremely hazardous substances.
SARA Title III: Section 302 (RQ)	This product contains chemicals regulated under Section 304 as extremely hazardous chemicals for emergency release notification ("CERCLA" List): <ul style="list-style-type: none">▪ Ethyl Acetate CAS #141-78-6 RCRA CideL U112.
SARA Title II: Section 311-312	This product is considered hazardous under the OSHA Hazard Communication Standard and is regulated under Section 311-312 (40 CFR 370). Its hazards are: <ul style="list-style-type: none">▪ Immediate (acute) health hazard▪ Fire Hazard▪ Reactive hazard
SARA Title III: Section 313	This product contains no chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.
TSCA Section 8(b): Inventory	This product contains chemicals listed on the TSCA inventory or otherwise complies with TSCA premanufacture notification requirements.
TSCA Significant New Use Rule:	None of the chemicals listed have a SNUR under TSCA.

State Regulations

CA Right-to-Know Law:	Ethyl Acetate CAS #141-78-6
CA No Significant Risk Rule:	None
MA Right-to-Know Law:	Ethyl Acetate CAS #141-78-6
NJ Right-to-Know Law:	Ethyl Acetate CAS #141-78-6



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PA Right-to-Know Law: Ethyl Acetate CAS #141-78-6
FL Right-to-Know Law: Ethyl Acetate CAS #141-78-6
MN Right-to-Know Law: None

CDSL: Canadian Inventory (on Canadian Transitional List)

Ethyl Acetate Cas# 141-78-6 is on the DSL List. WHMIS = B2, D2B

Isopropylidenediphenyl Bisoxhydroxypropyl Methacrylate Cas# 1565-94-2 is n/da for the DSL List.

WHMIS = n/da

HEMA Cas# 868-77-9 on the DSL List. WHMIS = n/da

Labeling according to EC directives - 1999/45/EC

European Community

- Hazard Symbols: Xi, F
- Risk Phrases: R11, highly flammable, R36: Irritating to eyes, R43: May cause sensitization by skin contact, R66: repeated exposure may cause skin dryness and cracking, R67: Vapors may cause drowsiness and dizziness.
- Safety Phrases: S16: keep away from sources of ignition - no smoking, S26: in case of contact with eyes, rinse immediately, S28A: after contact with skin, wash immediately with plenty of water, S33: take precautionary measures against static discharges, S36/37: Wear suitable protective clothing and gloves.

Section 16. Other Information

EU Classes and Risk/ Safety Phrases for Referenced Ingredients (see section 2):

Hazard Symbol:

F - Flammable substances or preparations

Xi - Irritants

Risk Phrases:

R11 Highly flammable; R36 Irritating to eyes; R36/38 Irritating to eyes and skin

R43 May cause sensitization by skin contact; R66 Repeated exposure may cause skin dryness or cracking; R67 Vapors may cause drowsiness and dizziness

Safety Phrases:

S2 Keep out of reach of children; S16 Keep away from sources of ignition - No smoking; S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice; S28 After contact with skin, wash immediately with plenty of water; S33 Take precautionary measures against static discharges.

HMIS:

Health: 2

Flammability: 3

Reactivity: 1