**AMERICAN INTERNATIONAL INDUSTRIES**

2220 GASPAR AVENUE  
LOS ANGELES, CA 90040  
CHEM-TEL: (800) 255-3924

**MATERIAL SAFETY DATA SHEET**

**PRODUCT NAME:** IBD Intense Seal **DATE:** 7/26/2004  
**FORMULA:** 30-0018 **REV.** NEW

**Section 1. Material Identification and Information****Hazardous Ingredients:**

Component	CAS #	%	TOXICOLOGICAL DATA
Ethyl Methacrylate	97-63-2	< 10%	OSHA TWA/STEL: 100ppm ACGIH TWA/STEL: 100ppm

**Section 2. Physical / Chemical Characteristics**

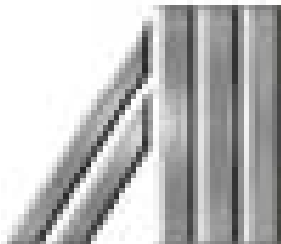
**Boiling Point:** N/A **Specific Gravity:** 1.15  
**Vapor Pressure:** < 0.01 @ 20°C (H2O =1)  
(mm Hg and Temperature) **Melting Point:** N/A  
**Vapor Density:** No Data **Evaporation Rate:** N/A  
(Air = 1) **Water Reactive:** N/A  
**Solubility in Water:** Insoluble **% Volatile:** By Volume: < 0.5  
**Appearance:** Clear, Semi-Viscous Liquid  
**Odor:** Characteristic Acrylate Odor

**Section 3. Fire and Explosion Hazard Data**

**Flash Point and Method Used:** 110°F / 43°C (Penske-Martin)  
**Auto-Ignition Temperature:** No Data  
**Flammability Limits in Air % by Volume:** **LEL:** No Data  
**UEL:** No Data  
**Extinguisher Media:** Use carbon dioxide or dry chemical for small fires; aqueous foam or water for large fires.  
**Special Fire Fighting Procedures:** Remove all ignition sources. Wear self-contained breathing apparatus and complete personal protective equipment when entering confined areas where potential for exposure to vapors or products of combustion exists.  
**Unusual Fire and Explosion Hazards:** High temperatures and fire conditions may cause rapid and uncontrolled polymerization which can result in explosions and the violent rupture of storage vessels or containers. Avoid the use of a stream of water to control fires since frothing can occur.

**Section 4. Reactivity Hazard Data**

**Stability:**  Stable  Unstable



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**Conditions to Avoid:** Storage < 100°F / 38°C, exposure to light, loss of dissolved air, loss of polymerization inhibitor, contamination with incompatible materials.

**Incompatibility (Materials to Avoid):**  
Polymerization initiators including peroxides, strong oxidizing agents, copper, copper alloys, carbon steel, iron, rust, and string bases.

**Hazardous Decomposition:**  
Fumes produced when heated to decomposition may include: carbon monoxide, carbon dioxide.

**Hazardous Polymerization:**  
 May Occur  Will Not Occur

**Section 5. Health Hazard Data**

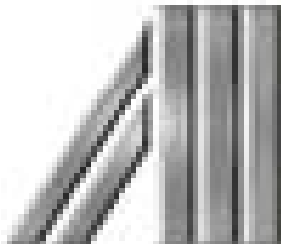
**Emergency Overview:**  
•Flammable liquid and vapor!  
•May be slightly toxic.  
•May cause moderate skin injury (reddening & swelling).  
•May cause chemical burn in eye.

**Primary Routes of Entry:**  
 Inhalation  Skin Absorption  Ingestion  Eye Contact

**Carcinogen Listed In:**  
 NTP  IARC Monograph  OSHA  Not Listed

**Health Hazards:**  
Eye Contact: Contains materials that are essentially nonirritating, but contact may cause slight transient irritation. Material may act as a Lachrymator (a substance which increases the flow of tears).  
Skin Contact: Contains materials that may cause moderate skin injury (reddening and swelling) and/or sensitization. Prolonged contact may cause blister formation (burns). Since irritation may not occur immediately, contact can go unnoticed.  
Inhalation: May cause respiratory tract irritation with presence of monomer. Vapors may causes dizziness or suffocation.  
Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea.  
Sub-Chronic Effects: No specific information available. Limited tests showed no evidence of teratogenicity in animals. A lifetime skin painting study with mice showed no evidence of carcinogenicity.

**Emergency First Aid Procedures:**  
Eye Contact: Flush with plenty of water for 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid. Do NOT allow victim to rub or keep eyes closed.  
Skin Contact: Remove contaminated clothing and wash contact area with soap and water for 15 minutes. Get medical aid if system persist. Wash clothing before reuse.



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Inhalation: In case of exposure to a high concentration of vapor or mist, remove person to fresh air. If breathing has stopped, administer artificial respiration and seek medical attention.

Ingestion: Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2 to 4 cupfuls of milk or water.

**Section 6. Control and Protective Measures**

**Engineering Controls:** Local exhaust recommended to control exposure which may result from operations generating aerosols and hot operations generating vapors.

**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 (29 CFR 1910.132), 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.

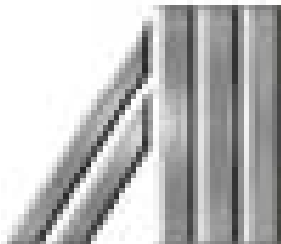
Eye/Face Protection: Wear safety glasses. Wear coverall chemical splash goggles and face shield when possibility exists for eye and face contact due to splashing or spraying material.

Skin Protection: Use impermeable clothing to prevent ANY contact with this product, such as gloves, apron, boots, or whole body suit. Nitrile rubber is better than PVC.

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 nuisance level organic vapor dust mask can be used, however the use of the respirator is limited. Follow OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149.

**Hygienic Work Practices:**

Good Manufacturing Practices.



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**Section 7. Precautions for Safe Handling and Use / Leak Procedures**

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**Steps to be Taken if Material is Spilled or Released:**

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 unprotected personnel from entering. Contain and remove 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 sawdust. 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 is (800) 424-8802. If a leak or a spill has not ignited, use water spray to disperse the vapors, to protect personnel attempting to stop leak, and to flush away from exposures.

**Waste Disposal Methods:**

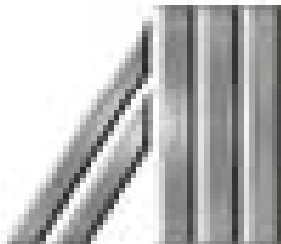
Dispose of diking materials and absorbent in compliance with State, Local, and Federal regulations. Residual vapors may explode on ignition; do not cut, drill, or weld on or near the container. Mix with compatible chemical which is less flammable and incinerate. Whatever cannot be saved for recovery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

**Precautions to be taken in Handling and Storing:**

Ground and bond containers when transferring material. Avoid contact with skin and eyes, and clothing. Use with adequate ventilation and avoid breathing in vapor. Keep container closed when not in use. Avoid contact with heat, sparks and flame. Remove all contaminated clothing, shoes, belts, and other leather goods immediately. Incinerate leather goods (including shoes). Wash contaminated clothing thoroughly before reuse. Wash skin thoroughly with soap and water after handling. Solvents should not be used to clean skin because of increased penetration potential. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks, or open flames. Material is extremely light sensitive. Use extreme care and do not expose to natural or UV light, unless using material for it's intended use. Since the material is very photosensitive any type of light may initiate the curing process.

**Other Precautions and/or Special Hazards:**

High temperatures and fire conditions may cause rapid and uncontrolled polymerization which can result in explosions and the violent rupture of storage vessels or containers.



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**Section 8. Toxicological Information**

**Acute Oral Toxicity:** No Data Available  
**Acute Dermal Toxicity:** No Data Available  
**Acute Inhalation Toxicity:** No Data Available  
**Irritation - Skin:** No Data Available  
**Irritation - Eye:** No Data Available  
**Sensitization:** No Data Available  
**Mutagenicity:** No Data Available  
**Sub-Chronic Toxicity:** No Data Available

**Section 9. 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

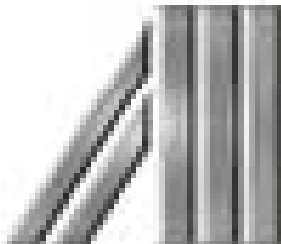
**Chemical Fate Information:**

Biodegradability: No Data Available  
Chemical Oxygen Demand: No Data Available

**Section 10. Transport Information**

**DOT (49 CFR 172):** Proper Shipping Name: Flammable Liquids, n.o.s., (ethyl methacrylate, acrylic esters), 3, UN1993, PGIII  
Identification Number: UN 1993  
Marine Pollutant: No  
Special Provisions: N/A  
Emergency Response Guidebook (ERG) #: 128

**IATA (DRG):** Proper Shipping Name: Flammable Liquids, n.o.s., (ethyl methacrylate, acrylic esters), 3, UN1993, PGIII  
Class or Division: 3.2  
UN or ID Number: UN 1993  
Packaging Instructions:  
Emergency Response Guidebook (ICAO) #:



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<b>IMO (IMDG):</b>	Proper Shipping Name:	Flammable Liquids, n.o.s., (ethyl methacrylate, acrylic esters), 3, UN1993, PGIII	
	Class or Division:	3	
	UN or ID Number:	UN 1993	
	Special Provisions & Stowage/Segregation:	None	
	Emergency Schedule (Ems)#:		

**Section 11. Regulatory Information**

**US Federal Regulations**

Clean Air Act HAP/ODS:

This product contains no hazardous air pollutants (HAP) or ODS's, as defined by the US Clean Air Act. They are as follows:

- Benzophenone, CAS #: 119-61-9

This product does not contain any Class 1 or Class 2 ODS.

Clean Water Act Priority Pollutant:

This product contains no chemicals listed under the US 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 packaging additive.

Occupational Safety and Health Act:

This product is considered to be hazardous under the OSHA Hazard Communication Standard. It's hazards are:

- Immediate (acute) Health Hazard
- Delayed (chronic) Health Hazard
- Reactive Hazard

RCRA:

This product is considered to be hazardous waste under RCRA (40 CFR 261) RCRA Code:

Ethyl Methacrylate, CAS #: 97-63-2, RCRA Code: U118

- Characteristic of Ignitability:, RCRA Code: D001

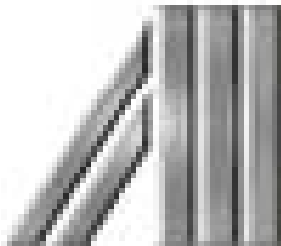
SARA Title III: Section 302 (TPQ)

This product contains no chemicals regulated under Sec. 302 as extremely hazardous substances that carry a TPQ.

SARA Title III: Section 304 (RQ)

This product contains chemicals regulated under Sec. 304 as extremely hazardous chemicals for emergency release notification ("CERCLA" List):

Ethyl Methacrylate CAS #: 97-63-2, RQ(lbs.): 1000



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### SARA Title III: Section 311-312:

This product is considered to be hazardous under the OSHA Hazard Communication Standard and is regulated under Section 311-312 (40 CFR 370 ). Its hazards are:

- Immediate (acute) health hazard
- Delayed (chronic) health hazard
- Reactive hazard

### SARA Title III: Section 313:

This product contains the following substances 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:

- NONE

### TSCA Section 8(b):

This product contains the following chemicals listed on the TSCA inventory or otherwise complies with TSCA premanufacture notification requirements.

### State Regulations

- CA Right-to-Know Law: NONE  
 MA Right-to-Know Law: Ethyl Methacrylate CAS #: 97-63-2  
 NJ Right-to-Know Law: Ethyl Methacrylate CAS #: 97-63-2  
 PA Right-to-Know Law: Ethyl Methacrylate CAS #: 97-63-2  
 FL Right-to-Know Law: Ethyl Methacrylate CAS #: 97-63-2  
 MN Right-to-Know Law: Ethyl Methacrylate CAS #: 97-63-2

### International Regulations

#### CDSL: Canadian Inventory (on Canadian Transitional List):

Ethyl Methacrylate CAS #: 97-63-2 is on the DSL List. WHMIS = B2, D2B.  
 Tetraethylene Glycol Dimethacrylate CAS #: 109-17-1 is not on the DSL List. WHMIS: N/A.  
 Benzophenone CAS # 119-61-9 is on the DSL List. WHMIS: Not Determined  
 D&C Violet #2 CAS #81-48-1, is not on the DSL List. WHMIS: Not Determined

#### EINECS: European Inventory:

- QF2: Hazard Symbols: ***Xi: Irritant, F: Flammable***  
 Risk Phrases: ***R22: Harmful if swallowed, R36/37/38: Irritating to eyes, respiratory system, and skin, R43: May cause sensitization by skin contact.***  
 Safety Phrases: ***S18: Handle and open container with care, S24/25: Avoid contact with skin and eyes, S36/37: Wear suitable protective clothing and gloves, S38: In case of insufficient ventilation, wear suitable respiratory equipment, S46: If swallowed seek medical advice immediately and show container or label.***

## Section 13. Other Information

### Hazard Rating System:

NFPA: Health = 2/Flammability = 2/Reactivity = 1  
 NFPA: Health = 2/Flammability = 2/Reactivity = 1