

**AMERICAN INTERNATIONAL INDUSTRIES**2220 GASPAR AVENUE
LOS ANGELES, CA 90040
CHEM-TEL: (800) 255-3924**MATERIAL SAFETY DATA SHEET****PRODUCT NAME:** IBD Acrylic Bright Top Coat**DATE:** 12/2/2004**FORMULA:** 30-1327**REV.** NEW**Section 1. Material Identification and Information****Hazardous Ingredients:**

Component	CAS #	%	TOXICOLOGICAL DATA
Acrylic Polymer in Toluene	None Established	60-100	OSHA PEL/TWA: 100ppm ACGIH TLV/STEL: 75ppm
Toluene	108-88-3	30-60	OSHA PEL/TWA: 100ppm ACGIH TLV/STEL: 75ppm
Butyl Acetate	123-86-4	15-40	OSHA PEL/TWA: 150ppm ACGIH TLV/STEL: 200ppm

Section 2. Physical / Chemical Characteristics

Boiling Point:	111°C	Specific Gravity:	Not Determined
Vapor Pressure:	22 mm Hg @ 20°C	(@ 25°C)	
(mm Hg and Temperature)		Viscosity:	2300-4300cps
Vapor Density:	3-4 times heavier than air	Evaporation Rate:	1.9 (Toluene)
(Air = 1)		(Butyl Acetate = 1)	
Solubility in Water:	Insoluble to Slightly Soluble	Water Reactive:	N/A
Appearance:	Clear Colorless Liquid	pH:	N/A
Odor:	Sweet and Sour	% Volatile:	~ 60%

Section 3. Fire and Explosion Hazard Data

Flash Point:	7°C / 45°F
Auto-Ignition Temperature:	407°C
Flammability Limits in Air % by Volume:	LEL: 1.2%
	UEL: 7.1%
Extinguisher Media:	Carbon dioxide, dry chemical, alcohol foam, or water spray.
Fire Fighting Procedures:	Wear self-contained breathing apparatus and full protective gear. Remove all sources of ignition if it can be done safely. Move containers from fire area if you can do so without risk. Cool containers exposed to fire with water spray.
Fire and Explosion Hazards	Eliminate sources of ignition. Above the flash point, vapor-air mixtures are explosive within the flammable limits. Sealed containers may rupture when heated. Vapors can flow along surfaces to distant ignition sources and flash back. Material creates a special hazard because it floats on water.
Explosion Hazard:	Fight fire from protected location.
Sensitive to Mechanical Impact:	No
Sensitive to Static Discharge:	Yes

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Heat, open flames, sparks, static electricity, sunlight, or other sources of ignition.

Incompatibility (Materials to Avoid):

Strong oxidizing agents.

Hazardous Decomposition:

Mainly oxides of carbon when burned.

Hazardous Polymerization: May Occur Will Not Occur**Section 5. Health Hazard Data****POTENTIAL HEALTH EFFECTS, SIGNS and SYMPTOMS OF EXPOSURE:****Primary Routes of Entry:** Inhalation Skin Absorption Eyes Ingestion**Carcinogen Listed In:** NTP IARC Monograph OSHA Not Listed**Health Hazards:**

For Acrylic Polymer in Toluene:

Acute:

- Eye Contact:** Can cause severe irritation and corneal clouding
- Ingestion:** Can cause gastrointestinal irritation, nausea, vomiting, diarrhea.
- Inhalation:** Can cause irritation of the nose, throat and lungs; headache; dizziness; drowsiness; fatigue; loss of coordination; unconsciousness.
- Skin Contact:** Moderate irritant. Can cause defatting and drying of the skin which can lead to irritation and dermatitis. Solvent may be absorbed through the skin.

Chronic:

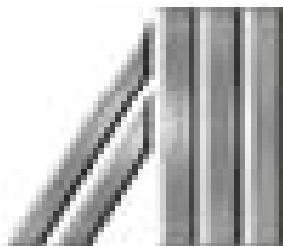
- Inhalation:** High solvent vapor or mist concentrations can cause respiratory tract irritation, liver, kidneys and cardiovascular system. May also cause coma and/or death.

Aggravated Pre-Existing Conditions: Chronic respiratory problems such as asthma, emphysema or bronchitis. May aggravate existing skin conditions.

For Toluene:

Acute:

- Eye Contact:** Causes severe irritation with redness and pain.
- Inhalation:** May cause irritation of upper respiratory tract. Symptoms of over-exposure may include fatigue, confusion, headache, dizziness and drowsiness. Peculiar skin sensations (e.g. pins and needles) or numbness may be produced. Very high concentrations may cause unconsciousness and death.
- Skin Contact:** Causes irritation. May be absorbed through skin.



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Ingestion: May cause abdominal spasms and other symptoms that parallel over-exposure from inhalation. Aspiration into lungs can cause chemical pneumonitis, which may be fatal.

Chronic: Chronic Poisoning: Anemia, decreased blood cell count and bone marrow hyperplasia. Liver and kidney damage may occur. Exposure may effect the developing fetus.

Skin Contact: Repeated or prolonged contact has a defatting action, causing drying, redness and dermatitis.

Aggravated Pre-Existing Conditions: Persons with pre-existing skin disorders or impaired liver or kidney function may be more susceptible to the effects. Alcoholic beverage consumption can enhance the toxic effects.

Note to Physician: Acute massive exposure to toluene can cause transient hematuria and albuminuria. Cardiac arrhythmias can occur after massive inhalation.

For Butyl Acetate:

Acute: Eye Contact: Vapor and liquid causes irritation.

Inhalation: May cause drowsiness and irritation of eye or respiratory tract.

Skin Contact: Prolonged or repeated contact may cause drying, cracking, or irritation.

Chronic: Overexposure may cause anemia with leukotosis (transient increase in the white blood cell count) and damage to the liver and kidneys.

Inhalation: High concentrations may cause lung damage. Exposure to high concentrations have a narcotic effect and may cause a stupor and headaches. May cause liver and kidney damage.

Skin Contact: Repeated or prolonged contact has a defatting action, causing drying, redness and dermatitis.

Emergency First Aid Procedures:

Eye Contact: If easy to do remove contact lenses. Flush with water for 15 minutes, including under eyelids. Seek medical attention. In case of irritation from airborne exposure, move to fresh air.

Skin Contact: Immediately wash with lots of soap and water. Seek immediate medical attention.

Inhalation: Remove to fresh air, assure victim is breathing. Seek immediate medical attention. If not breathing, administer CPR, if breathing difficult, give oxygen.

Ingestion: If conscious and alert, give 2-3 glasses of water. Do not induce vomiting. Material may enter lungs and cause severe damage. Seek immediate medical attention.

Clothing: Remove contaminated clothing and shoes. Heavily contaminate clothing should be discarded. Wash/clean thoroughly before reuse.

Treatment: Treat symptoms conventionally after thorough decontamination. Consideration should be given to possibly that overexposure to the solvent has occurred.

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Section 6. Control and Protective Measures

Ventilation: Use good, local explosion-proof ventilation with a minimum capture velocity of 100ft.min (30./min) at point of monomer release. Refer to Industrial Ventilation: A Manual of Recommended Practice published by the American Conference of Governmental Industrial Hygienists. Local exhaust ventilation is preferred since it prevents contamination dispersion into the work area by controlling it as its source.

Respiratory Protection:
Use self-contained breathing apparatus when needed.

Eye Protection:
Safety glasses or chemical splash goggles.

Protective Gloves:
Impervious, nitrile.

Other Protective Equipment:
Provide eyewash, safety shower and impervious clothing. Protective creams should not be used for protection, but may be used for ease of clean-up.

Industrial Hygiene Practices:
Wash face and hands thoroughly with soap and water after use and before eating, drinking, smoking or applying cosmetics.

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

Steps to be Taken if Material is Spilled or Released:

Evacuate area and eliminate all possible sources of ignition. Use self-contained breathing apparatus and protective clothing. Dike and absorb with inert materials (sand, soda, ash, vermiculite, etc.) and then transfer to proper containers for disposal, using non-sparking tools. Contaminated monomer ma be unstable, add inhibitor to prevent polymerization. Keep spills out of sewers and open bodies of water. Remove saturated clothing and wash affected areas with soap and water.

Waste Disposal Methods:

liquid and diking material after addition of excess inhibitor, in accordance with Federal, State, and Local regulations.

Handling:

Use in well ventilated areas. Avoid contact with skin, eyes, and clothing. Observe precautions found on the label. Close container after each use. Ground all metal containers when transferring. Use explosion-proof equipment. Use good personal hygiene and housekeeping.

Storage:

Recommended Minimum Storage Temperature: -18°C, 0°F.
Recommended Maximum Storage Temperature: 49°C, 120°F.
Store in a well ventilated area, away from heat, sparks, flame, direct sunlight or other sources of ignition. Keep away for incompatible materials.

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For Acrylic Polymer in Toluene:

None Listed.

For Toluene:

Eye Human: 300ppm

Eye Rabbit: 870µg. Mild.

Eye Rabbit: 2mg/24H. Severe

Eye Rabbit: 100mg/30s rinse. Mild.

Skin Rabbit: 435mg. Mild

For Butyl Acetate:

Skin Rabbit: 500mg. Moderate

Eye Human: 300ppm

Eye Rabbit: 20mg open. Severe

Eye Rabbit: Moderate.

Skin Guinea Pig: Slight.

Skin Rabbit: 500mg/24H. Moderate.

Mutagenicity Data:

For Acrylic Polymer in Toluene:

None Listed.

For Toluene:

Inhalation Rat Cytogenetic Analysis: 5400 µg/m³/16W

Subcutaneous Rat Cytogenetic Analysis: 12gm/kg/12D

S. Cerevisiae Cytogenetic Analysis: 2400µmol/tube

Liver Rat DNA Damage: 30µmol/L

E. Coli Unscheduled DNA Synthesis: 1pph

Microorganisms Unscheduled DNA Synthesis: 1pph/15M

Interperitoneal Mouse Micronucleus Test: 422µg/kg/24H

Oral Mouse Micronucleus Test: 200mg/kg

Inhalation Grasshopper Test Systems (Other): 562mg/L

Reproductive Toxicity Data:

For Acrylic Polymer in Toluene:

None Listed.

For Toluene:

Has been demonstrated to be embryofetotoxic and teratogenic in laboratory animals.

Inhalation Mouse TC_{Lo}: 500mg/m³/24, 6-13D preg.Inhalation Mouse TC_{Lo}: 1000ppm/6H, 2-17D preg.Inhalation Mouse TC_{Lo}: 400ppm/7H, 7-16D preg.Inhalation Mouse TC_{Lo}: 200ppm/7H, 7-16D preg.Inhalation Rat TC_{Lo}: 1500mg/m³/24H, 1-8D preg.Oral Mouse TC_{Lo}: 9g/kg, 6-15D preg.Oral Mouse TC_{Lo}: 15g/kg, 6-15D preg.Oral Mouse TC_{Lo}: 30g/kg, 6-15D preg.

For Butyl Acetate:

Inhalation Rat TC_{Lo}: 1500ppm/7H, 7-16D preg.

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For Acrylic Polymer in Toluene:

Not Listed.

For Toluene:

Inhalation Guinea Pig

LC_{Lo}: 1600ppm

Inhalation Human

TC_{Lo}: 200ppm

Inhalation Man

TC_{Lo}: 100ppm

Inhalation Mouse

LC_{Lo}: 5320 ppm/8H

Inhalation Rat

LC_{Lo}: 4000ppm/4H

Intraperitoneal Mouse

LD₅₀: 1126mg/kg

Intraperitoneal Rat

LD_{Lo}: 800mg/kg

Intravenous Rat

LD₅₀: 1960mg/kg

Oral Human

LD_{Lo}: 50mg/kg

Oral Rat

LD₅₀: 5000mg/kg

Subcutaneous Rat

LD_{Lo}: 920mg/kg

Skin Rabbit

LD₅₀: 12124mg/kg

Unreported Route Mouse

LD₅₀: 2000mg/kg

Unreported Route Rat

LD₅₀: 6900mg/kg

For Butyl Acetate:

Inhalation Cat

LC_{Lo}: 68g/m³/72H

Inhalation Guinea Pig

LC_{Lo}: 67g/m³/4H

Inhalation Human

LC_{Lo}: 7000ppm/13H

Inhalation Mouse

TC_{Lo}: 200ppm

Inhalation Rat

LC₅₀: 6g/m³/2H

Inhalation Rat

LC₅₀: 2000ppm/4H

Intramuscular Guinea Pig

LC₅₀: 1800ppm/6H

Intraperitoneal Guinea Pig

LD_{Lo}: 2648mg/kg

Intraperitoneal Mouse

LD₅₀: 1500mg/kg

Oral Guinea Pig

LD_{Lo}: 1230mg/kg

Oral Mouse

LD₅₀: 4700mg/kg

Oral Mouse

LD₅₀: 7060mg/kg

Oral Rat

LD₅₀: 14g/kg

Oral Rat

LD₅₀: 14130mg/kg

Oral Rabbit

LD₅₀: 7400mg/kh

Skin Guinea Pig

LD₅₀: 8770mg/kg**Section 9. Ecological Information****Aquatic Toxicity:**

For Butyl Acetate:

Bluegill Sunfish

LC₅₀: 100mg/L/96H

Tidewater Silverside

LC₅₀: 185mg/L/96H

Daphnia

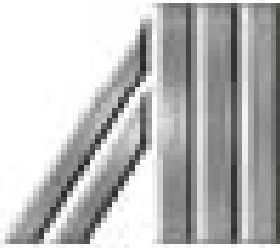
LC₅₀: 44-205mg/L/96H**Ecotoxicity Data:**

For Acrylic Polymer in Toluene: No Applicable Data

For Toluene

Fish

LC₅₀: 10-100mg/L/96H

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Environmental Fate:

When released into soil, may evaporate to moderate extent. When released into soil, expected to leach into groundwater. When released into soil, may biodegrade to moderate extent. When released into water, may evaporate to moderate extent. When released into water, may biodegrade to moderate extent. When released into air, may moderately degraded by reaction with photochemically produced hydroxyl radicals. When released to into air, expected to have a half-life of less than 1 day. This material is not expected to significantly bioaccumulate.

Oxygen Demand Data:

For Butyl Acetate: BOD-5: 1020mg/g
 BOD-20: 1450mg/g
 ThOD: 2207mg/g

Section 10. Disposable Concentrations

Waste Disposal Method:

When discarded it is listed as hazardous waste by the EPA under RCRA as U220. Incinerate liquid and diking material after addition of excess inhibitor, in accordance with Federal, State, and Local regulations.

Disposal of Empty Containers:

Reuse of empty drums or containers is not recommended. Employees should be advised of the potential hazards, due to residual flammable material, associated with empty containers. IT is our policy to discourage the reuse of empty containers and to dispose of all empty containers properly, in accordance with Federal, State, and Local regulations.

Section 11. Transport Information

DOT/ UN Shipping Name: FLAMMABLE LIQUID, NOS (Contains Toluene and Butyl Acetate)

DOT/UN Class: 3
NA/UN Number: UN1993
Packing Group: II
NAERG: 130
Label: Flammable Liquid
NMFC ITEM #: 60004, Declared Value must be filled in
Schedule B: 2902.20.0000
IMDG Class: 3.2
EmS: 7-Mar
CERCLA RQ: For Component: Toluene: 1000lbs.
 Butyl Acetate: 5000lbs.

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TSCA, EINECS, CERCLA, CA65

Toluene as a Component Listing:

TSCA, EINECS, CERCLA, SARA 313, CAA, RCRA (U220), CA65, FL, MA, MI, MN, NJ, PA, WA

Butyl Acetate Listing:

TSCA, EINECS, SARA 313, MA, MI, NJ

TSCA:

For use in FDA regulated products only.

Canadian WHMIS:

This product has been classified in accordance with the hazardous criteria of the CPR and the MSDS contains all the information required by the CPR.

Warning Code:

F-Flammable

Risk Statements:

R10-Flammable

R36/38-Irritating to eyes and

R43-May cause sensitization by skin contact

Safety Statements:

S3-Keep in a cool place.

S7/8-Keep container tightly closed and dry.

S9-Keep container in a well ventilated place.

S15/16-Keep away from heat, sources of ignition - No smoking.

S20-When using do not eat or drink

S23-Do not breath away

S24/25-Avoid contact with skin and eyes

S29-Do not empty into drains

S37/39-Wear suitable gloves and eye/face protection.

Section 13. Other Information**Hazardous Material Identification System (HMIS) Rating:**

Health: 3

Flammability: 3

Reactivity: 0

Personal Protective Equipment: Gloves and Safety Glasses or Chemical Splash Goggles

National Fire Protection Association (NFPA) Hazard Identification Rating:

Health: 3

Flammability: 3

Reactivity: 0

This product contains