

Material Safety Data Sheet

MSDS#: KIP090701-UBP

U-BOND

(Acid Free)

Section 1 - Identification of the Substance/Preparation and of the Company/Undertaking

Product Name: U-BOND (Acid Free Primer) MSDS Prepared By: ALD

Chemical Name: Primer

Supplier: Impression Beauty International U.A.E.

Emergency Phone Numbers: (800) 535 -5053

Product Use: Adhesion Improvement (Please quote the MSDS number)

Product No. IM-PAF15 Information Contacts: (971) 67453254/5

Section 2- Composi	ition/Inforn	nation on Ing	gredients				
Chemical Identity	CAS Nos.	EINECS#	INCI Name	Exposure OSHA TWA/STEL	Limits ACGIH TWA/STEL	Carcinogen IARC/NTP/OSHA	%
Ethyl Acetate	141 - 78 - 6	205-500-4	Ethyl Acetate	400 ppm	400 ppm	Not Listed	80-85
2,2-bis-(4-(2-hydroxy- 3- methacryloxypropoxy) BIS-GMA	1565-94-2	216-367-7	Isopropylidenediphenyl bisoxyhydroxypropyl methacrylate	N/E	N/E	Not Listed	5-10
2-Hydroxy ethyl methacrylate	868-77-9	205-769-8	НЕМА	N/E	N/E	Not Listed	5-10
N/E - None Established				N/DA - No Data			

Ethyl Acetate: Hazard Symbol - F, Xi Risk Phrases - R11, R36, R66, R67 Safety Phrases - S2, S16, S26, S33

2,2-bis-(4-(2-hydroxy-3-methacryloxypropoxy)BIS-GMA: Hazard Symbols – N/E Risk Phrases – N/E Safety Phrases – N/E

2-Hydroxy ethyl methacrylate: Hazard Symbols – Xi Risk Phrases – R36/38, R43 Safety Phrases – S2, S26, S28

See Section 16 for Risk and Safety Phrase Key

Section 3 Hazards Identification

EMERGENCY OVERVIEW

This information is based on findings from related or 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.
	Can cause skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may
Skin	include redness, burning, drying, cracking, and skin burns.
	Swallowing small amounts during normal handling is not likely to cause harmful effects;
Ingestion	swallowing large amounts may be harmful. This material can get into the lungs during
	swallowing or vomiting.
	Vapor and mist are irritating to mucous membranes. Breathing small amounts during
Inhalation	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.
(Long-term)	

NOTE: Refer to Section 11, Toxicological Information for Details

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

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	any visual difficulty, seek medical attention	1.		
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 medical attention.	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 Me		arrada disassarasar		
Flash Point(°F/°C)	Flammable Limit(vol%)	Auto-ignition Temperature(vol%)		
TAG Closed: 26°F / -3.3°C	400 ppm	750 ° F - 900 ° F		
Method: Extinguishing 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 products 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.			
Section 6- Accidental Release Procedures Spill or Release Procedures Section 7- Handling and St	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 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 is (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			
		and heat light and invition assumes Assid		
Handling	Keep containers cool and dry. Keep away for breathing high vapor concentrations. Avoid only with adequate ventilation. Wash skin	d prolonged or repeated contact with skin. Use		
Storage	Store in a well ventilated area. Store @ 70 - Keep containers closed while not in use.	+ 15 ° F, allow some air space above liquid level.		
Explosion Hazard	Vapors are heavier than air and may travel ventilation and ignited by pilot lights, other ignition sources at locations distant from nucutting torch on or near drum (even empty)	r flames, sparks, heaters, smoking or other naterial handling point. Never use welding or		

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Odor & Odor Threshold	PН		VOC (g/L)	Spe Gra		Vis	scosity	%Volatile	
ster like odor	NA	736		(H2O 0.92		15 cps	5	W/W % : 50+	
composition/ emperature	Octanol/Water Partitioning Coefficient Log Po/w	Vapor Pressure:	Vapor Density		-	n	Ignition	Solubility In Water (20°C)	
N/DA	N/DA	N/DA	(Air=1):		NA		NA	Insoluble	
oint(°F/°C) : 26°F / -3.3°C						Auto-ig			
,	eactivity								
mity allu N	cactivity								
oosition Prod	ucts: Heated mate	erial	rial Incompatibility (Materials to Avoi oxidizing agents, acids & bases (heat						
produces NO			s NO2 , CO2 , CO						
oin : 2	perature N/DA t(°F/°C) 6°F/-3.3°C ity and R sition Prod produ	perature Coefficient Log Po/w N/DA N/DA t(°F/°C) 6°F/-3.3°C ity and Reactivity sition Products: Heated mate produces NO2, CO2, CO2	perature Coefficient Log Po/w N/DA N/DA N/DA N/DA t(°F/°C) Flammabl 6°F/-3.3°C 40 ity and Reactivity sition Products: Heated material produces NO2, CO2, CO	perature Coefficient Log Po/w N/DA N/DA N/DA N/DA (Air=1): t(°F/°C) Flammable Limit (vol%) 6°F/-3.3°C 400 ppm ity and Reactivity sition Products: Heated material produces NO2, CO2, CO	perature Coefficient Log Po/w Pressure: Density Log Po/w N/DA N/DA N/DA N/DA (Air=1): t(°F/°C) Flammable Limit (vol%) 400 ppm ity and Reactivity ity and Reactivity Incompatition Products: Heated material produces NO2, CO2, CO	nposition/ Partitioning Coefficient Log Po/w Pressure: Density Rate N/DA N/DA N/DA N/DA (Air=1): NA t(°F/°C) Flammable Limit (vol%) 400 ppm ity and Reactivity ity and Reactivity Incompatib oxidizing agreement of the products: Heated material produces NO2, CO2, CO	perature Coefficient Log Po/w Pressure: Density Rate N/DA N/DA N/DA N/DA (Air=1): NA t(°F/°C) Flammable Limit (vol%) Auto-ig 400 ppm ity and Reactivity sition Products: Heated material produces NO2, CO2, CO	perature Coefficient Log Po/w Pressure: Density Density Rate Ignition N/DA N/DA N/DA (Air=1): NA NA **Test Pressure: Density Rate Ignition N/DA N/DA N/DA (Air=1): NA NA **Test Pressure: Density Rate Ignition N/DA N/DA N/DA (Air=1): NA NA **Test Pressure: Density Rate Ignition N/DA N/DA N/DA (Air=1): NA NA **Test Pressure: Density Rate Ignition Ignition Ignition Incompatibility (Materials to oxidizing agents, acids & bases (produces NO2, CO2, CO)	

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Acute Oral Toxicity	Acute Dermal Toxicity	Acute Inhalation Toxicity	Irritation - skin	Irritation - Eye
Oral LD50 (rat) : 4.0-	Dermal LD50 (rabbit):	Inhalation LC50 (rat):	Rabbit : slight	Rabbit : slight
6.0g/kg >20mL/kg		3500 - 8000 ppm/4 hours		_
Since this product contain	ns a mixture of active com	ponents, the primary toxicologica	al information is derived	from the acetates.
Further hazardous prope	rties cannot be excluded. '	Γhe product should be handled w	rith care when dealing w	ith chemicals.
		•		
Sensitizati	on	Mutagenicity	Sub	-chronic Toxicity
N/DA E.Coli: DNA Damage: 20mol/L N/DA				
Section 12- Ecologic	cal Information			
Ecotoxicological Inforn	nation			
Acute Toxicity	Acute Toxicity	Acute Toxicity	Bioconcentration	Toxicity to Sewage
to Fish	to Invertebrates	to Algae		Bacteria
N/DA	N/DA N/DA N/DA		N/DA	N/DA
Chemical Fate Inform	ation			
Biodegradability			N/DA	
Diodegradability				

Section-13 Disposal Consideration

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 provisions may be in force

Section 14- Transport Information	
DOT (49 CFR 172)	
Proper Shipping Name:	UN1993, Flammable liquids, n.o.s., (ethyl
	acetate, monomers), 3, PGII
Identification Number	UN1993
Marine Pollutant:	No
Special Provisions:	T8, T31
Emergency Response Guidebook (ERG) #:	128
IATA (DGR):	
Proper Shipping Name	UN1993, Flammable liquids, n.o.s., (ethyl
	acetate, monomers), 3, PGII
Class or Division	3
UN or ID Number	UN1993
Packaging Instructions:	A3
Emergency Response Guidance (ICAO)#:	3L
IMO (IMDG):	
Proper Shipping Name	UN1993, Flammable liquids, n.o.s., (ethyl
	acetate, monomers), 3, PGII
Class or Division:	3.2
UN or ID Number:	UN1993
Special Provisions & Stowage/Segregation	None
Emergency Schedule (EmS)#:	307

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Other Information	Flash point = -3.3°C			
Section 15- Regulatory Info				
US Federal Regulations	JI III GLOII			
Clean Air Act: HAP/ODS	This product contains the following hazardous air pollutant (HAP), as defined by the U. S. Clean Air			
Clean Air Act: HAP/ODS				
	Act:			
	• NONE.			
	There are no ODC substances in this much st			
	There are no ODS substances in this product.			
Clean Water Act: HS/Priority	This product contains the following chemicals listed under the U. S Clean Water Act Hazardous			
Pollutant	Substance List:			
	• NONE			
	The following chemicals are listed as primary pollutants:			
	• NONE			
FDA: Food Packaging Status	This product has not been cleared by the FDA for use in food packaging and /or other applications a			
rDA: roou Packaging Status	an indirect food additive			
Occupational Safety and Health	This product is considered to be hazardous under the OSHA Hazard Communication Standard. Its			
Act	hazard are:			
Act	• IMMEDIATE (acute) HEALTH HAZARD			
	• FIRE HAZARD			
RCRA	This product contains the following chemicals considered to be hazardous waste under RCRA (40			
KCKA	CFR 261):			
	• Ethyl Acetate CAS #141 - 78 - 6 RCRA Code: 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 the chemicals regulated under Section 304 as extremely hazardous chemicals for			
SANA True III. Section 302 (NQ)	emergency release notification ("CERCLA" List):			
	• Ethyl Acetate , CAS #141-78-6, RQ (Lbs) : 5000			
SARA Title III: Section 311-312	This product is considered to be hazardous under the OSHA Hazard Communication Standard and is			
omar ride iii. Section 511 512	regulated under Section 311-312 (40 CFR 370). Its hazards are:			
	• 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			
TSCA Significant New Use Rule	premanufacture notification requirements.			
5	None of the chemicals listed have a SNUR under TSCA			
State Regulations				
CA Right-to-Know Law: California No Si	ignificant Ethyl Acetate CAS #141-78-6			
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			
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: International Regulations	Ethyl Acetate CAS #141-78-6			
CDSL: Canadian Inventory	Ethyl Acetate CAS #141-78-6 is on the DSL List. WHMIS = B2, D2B			
(on Canadian Transitional List)	2,2-bis-(4-(2-hydroxy-3-methacryloxypropoxy)BIS-GMA CAS# 1565-94-2 is n/da for the DSL List.			
2.000	WHMIS = n/da			
	2-Hydroxyethyl methacrylate CAS #868-77-9 on the DSL List. WHMIS = n/da			
Labeling according to EC Directiv	ves - 1999/45/EC			
European Community:	U-BOND (Acid Free)			
	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.			
	Cafaty Phrasas, \$16, kaon away from sources of ignition, no smoking \$26, in case of			

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• 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



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plenty of water, **\$33**: take precautionary measures against static discharges, **\$36/37**: 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:

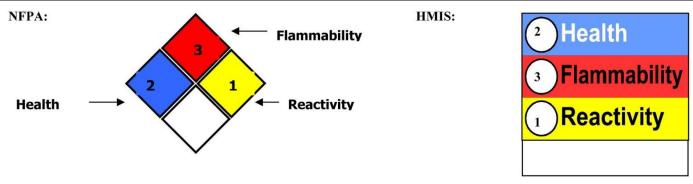
R11 Highly flammable; R36 Irritating to eyes; R36/38 Irritating to eyes and skin

R43 May cause sensitisation 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 the 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.

Hazard Rating System (Pictograms)



Revision History:	11/08/04 Updated formatting and Section II % content revision
	12/20/07 DOT Name update
	09/18/08 Updated section 16
	10/22/08 Updated Format
	11/04/08 Updated Risk and Safety Phrases
	12/09/08 Updated specific gravity and VOC

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