

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CHEMICAL NAME: Urethane Acrylate Blend

PRODUCT NAME: Bella Forma Clear Gel

PRODUCT USE: Organic Process Chemical

24 HOUR EMERGENCY TELEPHONE: CHEMTEL: 1-800-255-3924 OR 813-248-0573

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PREPARATION / UPDATE DATE: 6/7/09

PRINT DATE: 2/24/10

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

ITEM	CHEMICAL NAME	CAS NUMBER:	WT/WT %
01	Urethane Acrylate Oligomer Mixture	NA	40.0-80.0
02	Isobornyl Methacrylate	7534-94-3	10.0-40.0
03	Photoinitiator	NA	0.0-10.0
04	Mono Methacrylate	27813-02-1	0.0-10.0

ITEM	ACGIH		OSHA		Company Recommendation	SKIN
	TLV-TWA	TLV-STEL	PEL TWA	PEL CEILING		
01	NE	NE	NE	NE	NE	NE
02	NE	NE	NE	NE	NE	NE
03	NE	NE	NE	NE	NE	NE
04	NE	NE	NE	NE	NE	NE

Note this material contains an inhibitor (HQ, MEHQ, etc) at <1%. The type and amount meet product specifications. Contact manufacturer for exact concentration and details on inhibitor level maintenance.

See Section 16 for Abbreviations.

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: WARNINGS FOR MIXTURE

Physical Hazards:		Unstable/Reactive upon depletion of inhibitor. Check inhibitor levels periodically.
Acute Hazards:	Eyes:	May cause irritation. Irritation may include excessive tearing, blinking and redness. May cause corneal opacity and/or permanent damage.
	Skin:	May cause slight irritation. Possible skin sensitizer. May cause a severe reaction on repeated application which may include delayed irritation or blistering.
	Inhalation:	Not expected to be a hazard due to low volatility under standard conditions. Aerosols or vapors, which are generated at elevated temperatures, may cause irritation.
	Ingestion:	May be harmful and can cause nausea, vomiting, abdominal cramps.
Chronic Hazards:	Respiratory Tract:	Prolonged or repeated exposure may cause irritation.

PRIMARY ROUTES OF ENTRY: Inhalation, Skin or Eyes.

CARCINOGENICITY: None of the components of this material are listed by IARC, NTP, OSHA, or ACGIH as carcinogens.

SECTION 4 - FIRST AID MEASURES

EMERGENCY AND FIRST AID PROCEDURES:

EYES:	If product gets in the eyes, flush with copious amounts of lukewarm water for at least 15 minutes. If irritation occurs, contact a physician.
SKIN:	If irritation occurs and product is on the skin, rinse thoroughly with lukewarm water, followed by a thorough washing of the effected area with soap and water. If irritation, redness or swelling persists, contact a physician immediately.
INHALATION:	Remove to fresh air. Seek immediate medical attention.
INGESTION:	If ingested, do not induce vomiting. If product has been swallowed, drink plenty of water or milk IMMEDIATELY. If the patient is vomiting, continue to offer water or milk. Never give anything by mouth to an unconscious person. Provide an estimate of the time at which the material was ingested and the amount of the substance that was swallowed. Get medical attention immediately.
CLOTHING:	Remove contaminated clothing, wash thoroughly before reuse.
TREATMENT:	Treat symptoms conventionally, after thorough decontamination.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT:	>200 °F, >93 °C
AUTOIGNITION TEMPERATURE:	NE
FLAMMABLE LIMIT, AIR VOL%	LOWER: NE UPPER: NE
FIRE AND EXPLOSION HAZARDS:	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.
EXTINGUISHER METHOD:	Chemical foam, carbon dioxide, dry chemical.
SPECIAL FIRE FIGHTING PROCEDURES:	When involved in a fire, this product may ignite and decompose to produce carbon oxides. Do not enter fire area without proper protection. Fight fire from a safe location. Heat/impurities may cause pressure to build and/or rupture closed containers, spreading fire, increasing risk of burns/injuries. Structural firefighters must wear SCBAs and full protective equipment.
SENSITIVE TO STATIC DISCHARGE:	No.
SENSITIVE TO MECHANICAL IMPACT:	No.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE:	Before cleaning any spill or leak, individuals involved must wear appropriate Personal Protective Equipment (e.g., goggles, gloves). Deny entry to all unprotected individuals. Dike and contain spill with inert material (e.g. sand or earth). Maximize ventilation (open doors and windows) and secure all sources of ignition. Place into appropriate closed container(s) for disposal in accordance with local, state and federal regulations. Wash all affected areas with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before reuse. Keep spills and cleaning runoffs out of municipal sewers and open bodies of water.
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SECTION 7 - HANDLING AND STORAGE

- PRECAUTIONS FOR STORAGE:** Product may congeal or stratify if subjected to below freezing temperatures. Store containers in a cool (40-80°F, 4-27°C), dry location, away from direct sunlight, heat, sparks, flame, other light sources, or sources of intense heat. Keep container closed after each use. **Check inhibitor levels periodically.** Do not blanket or mix with oxygen-free gas as it renders the inhibitor ineffective.
- PRECAUTIONS FOR HANDLING:** Use local ventilation with a minimum capture velocity of 100 ft/min (30 m/min) at point of material release. Refer to Industrial Ventilation: A Manual of Recommended Practice published by the American Conference of Governmental Hygienist. Observe precautions found on label.
- INDUSTRIAL HYGIENE PRACTICES:** Avoid contact with skin, eyes, clothing, and prolonged contact with the product. Use good personal hygiene and housekeeping. After use, wash hands and exposed skin with soap and water. Do not eat, drink or smoke while handling product.

SECTION 8 - EXPOSURE CONTROL / PERSONAL PROTECTION

- EYE PROTECTION:** Depending on the use of this product, splash or safety glasses may be worn. If necessary, refer to U.S. OSHA 29 CFR §1910.133, or other appropriate governing standard. Ensure that an eyewash station, sink or washbasin is available in case of exposure to eyes.
- PROTECTIVE GLOVES:** If anticipated that prolonged & repeated skin contact will occur during use of this product, wear chemical resistant gloves for routine industrial use. If necessary, refer to U.S. OSHA 29 CFR §1910.138, or other appropriate governing standards.
- RESPIRATORY PROTECTION:** A respirator should be worn whenever workplace conditions warrant a respirators use. None required if airborne concentrations are maintained below the exposure limit listed in Section 2. If necessary, use only respiratory protection authorized per U.S. OSHA's requirement in 29 CFR §1910.134 or other appropriate governing standard.
- VENTILATION:** Refer to Section 7 regarding the ventilation requirements for working with this product. Use local exhaust at processing equipment, including buffers, sanders, grinders and polishers. High temperature processing equipment should be well ventilated.
- OTHER PROTECTIVE EQUIPMENT:** No special body protection is required under typical circumstances of use and handling. If necessary, refer to appropriate governing standards. An eyewash station and a safety shower are recommended.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Clear to pigmented viscous liquid.
pH:	ND
ODOR:	Acrylate
ODOR THRESHOLD:	ND
VAPOR PRESSURE:	NA
VAPOR DENSITY (AIR=1):	ND
BOILING POINT:	ND
MELTING POINT:	ND
SOLUBILITY IN WATER:	ND
VISCOSITY:	ND
SPECIFIC GRAVITY (H₂O=1):	NA
PERCENT VOLATILE W/W%:	ND
COEFFICIENT OF WATER/OIL DISTRIBUTION:	ND
VOC CONTENT BY WEIGHT:	NA

SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID:	High temperatures, localized heat sources (example drum or band heaters) oxidizing conditions, freezing conditions, direct sunlight, ultraviolet radiation, inert gas blanketing.
INCOMPATIBILITY (MATERIALS TO AVOID):	Strong oxidizers, strong reducers, free radical initiators, inert gases, oxygen scavengers. Material has strong solvent properties and can soften paint and rubber.
STABILITY:	Unstable/Reactive upon depletion of inhibitor.
HAZARDOUS DECOMPOSITION PRODUCTS:	Mainly Oxides of Carbon when burned.
HAZARDOUS POLYMERIZATION:	MAY OCCUR: X WILL NOT OCCUR:

SECTION 11 - TOXICOLOGICAL PROPERTIES**TOXICITY DATA:**

This product has NOT been tested on animals to obtain toxicology data. There may be toxicology data for the components of the product, which is found in scientific literature. This data has not been presented in this document.

TARGET ORGANS:

For Mixture: None Listed.

REPRODUCTIVE TOXICITY DATA:

Embryotoxicity: This product is not reported to produce embryotoxic effects in humans.
Teratogenicity: This product is not reported to cause teratogenic effects in humans.
Reproductive Toxicity: This product is not reported to cause reproductive effects in humans.

MUTAGENICITY DATA: This product is not reported to produce mutagenic effects in humans.

SECTION 12 - ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE: There is no specific data available for this product.

AQUATIC TOXICITY: There is no specific data available for this product; however, very large releases of this product may be harmful or fatal to overexposed aquatic life.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Contaminated product/soil/water may be RCRA/OSHA hazardous waste due to potential for internal heat generation (40 CFR 261 and 29 CFR 1910). After addition of excess inhibitor, dispose waste material 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 material associated with empty containers. Dispose of all empty containers properly in accordance with Federal, State and Local regulations.

SECTION 14 - TRANSPORTATION

DOT/UN CLASS: NA
DOT/UN SHIPPING NAME: Not regulated.
LABEL: NA
NA/UN NUMBER: NA
PACKING GROUP: NA
DOT RQ: NA
IMDG CLASS: NA
IMDG PG: NA

SECTION 15 - REGULATORY INFORMATION**US:**

TSCA Inventory Status: The components of this product are listed or are excluded from listing on the TSCA Inventory.

SARA Section 302: There are not any specific Threshold Planning Quantities for the components of this product.

SARA Section 311/312: Immediate (Acute) Health, Reactive

SARA Section 313: NA

CERCLA Reportable Quantity (RQ): NA

State Regulatory Information: This product may contain components that are covered under specific state criteria.

CANADA:

DSL/NDSL: The components of this product are listed on the DSL or NDSL.

WHMIS Hazard Class: D2B

Other: This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR. None of the components of this product are listed on the Priorities Substances List.

EUROPE:

EINECS: The components of this product are listed on or are excluded from listing on EINECS or the NLP List.

SAFETY STATEMENTS:

S3 – Keep in a cool place.

S7 – Keep container tightly closed.

S9 – Keep container in a well-ventilated place.

S20 – When using do not eat or drink.

S 29 – Do not empty into drains.

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

RISK STATEMENTS:

R36/38 – Irritating to eyes and skin.

R43 – May cause sensitization by skin contact

HAZARD SYMBOLS:

Xi – Irritant

SECTION 16 - OTHER INFORMATION**NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARD IDENTIFICATION RATING:**

HEALTH: 2

FLAMMABILITY: 1

REACTIVITY: 1

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS) RATING:

HEALTH: 2

FLAMMABILITY: 1

REACTIVITY: 1

PERSONAL PROTECTIVE EQUIPMENT: Gloves and Safety Glasses or Chemical Splash Goggles.

SECTION 16 - OTHER INFORMATION (CONTINUED)**ABBREVIATIONS:**

NA	Not Applicable	NE	Not Established
ND	Not Determined		
BOD	Biological Oxygen Demand	Lo	Lowest
COD	Chemical Oxygen Demand	TC	Toxic Concentration
DOC	Dissolved Organic Carbon	TD	Toxic Dose
IC	Inhibitory Concentration	ThOD	Theoretical Oxygen Demand
LC	Lethal Concentration	TLm	Threshold Limit
LD	Lethal Dose		
c	cento	mg	Milligram
G	Gallon	mm	Millimeter
gm	Gram	mol	Mole
kg	Kilogram	Pa	Pascals
L	Liter	p	Pico
μ	Micro	ppm	parts per million
H	Hours	M	Months
D	Days	Y	Years
W	Weeks		

ACGIH	American Conference of Governmental Industrial Hygienist
CPR	Controlled Product's Regulation
DSL	Canadian Domestic Substances List
IARC	International Agency for Research for Cancer
NDSL	Canadian Non-domestic Substance List
NOAEL	No Observed Adverse Effect Level
NOEL	No Observed Effect Level
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
TLV	Threshold Limit Value

THIS MATERIAL SAFETY DATA SHEET IS PREPARED IN COMPLIANCE WITH FEDERAL REGULATIONS (29 CFR 1910.1200), AND CANADIAN WHMIS REGULATIONS, ANY APPLICABLE STATE AND LOCAL REGULATIONS SHOULD BE CONSULTED. THE ABOVE INFORMATION MAY BE BASED IN PART ON INFORMATION PROVIDED BY COMPONENT SUPPLIERS AND IS BELIEVED TO BE CORRECT AS OF THE DATE HEREOF. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY USE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OF THESE DATA, THE RESULTS TO BE OBTAINED FROM THE USE OF THE MATERIAL, OR THE HAZARDS CONNECTED WITH SUCH USE. SINCE THE INFORMATION CONTAINED HEREIN MAY BE APPLIED UNDER CONDITIONS BEYOND OUR CONTROL AND WITH WHICH WE MAY BE UNFAMILIAR, AND SINCE DATA MADE AVAILABLE SUBSEQUENT TO THE DATE HEREOF MAY SUGGEST MODIFICATION OF THE INFORMATION, WE ASSUME NO RESPONSIBILITY FOR THE RESULT OF ITS USE. THIS INFORMATION AND MATERIAL IS FURNISHED ON THE CONDITION THAT THE PERSON RECEIVING IT SHALL MAKE HIS/HER OWN DETERMINATION AS TO THE SUITABILITY OF THE MATERIAL FOR HIS/HER PARTICULAR PURPOSE AND ON THE CONDITION THAT HE/SHE ASSUME THE RISK OF HIS/HER USE THEREOF.