

Material Safety Data Sheet Super Build Gel UV

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

Product Name:	Super Build UV GEL	MSDS#: KIG090904-PBG	
Chemical Name:	N/A	MSDS Initial Approval Date:	9/09/2004
		MSDS Prepared by:	BSQ
Family:	UV GELS	GEL Type:	TYPE 3
Product Use:	NAIL GEL	Manufacturer: ABC International Sp. z o.o.	
Product #: various		ul. Odolańska 10 Warszawa 02-560	
		Emergency Phone Numbers: (0048)42 631 47 24	
		Information Contacts: (0048)228800455	

Section 2 - Composition/Information on Ingredients

Chemical Identity	CAS #	EINECS#	INCI Name	Exposure OSHA TWA/STEL	Limits ACGIH TWA/STEL	Carcinogen IARC/NTP/OSHA	%
Polyurethane Acrylate Oligomer	Exempt	N/E	Polyurethane Acrylate Oligomer	N/E	N/E	Not Listed	85-95
Trimethylolpropane Trimethacrylate esters	3290-92-4	221-950-4	Trimethylolpropane Trimethacrylate	N/E	N/E	Not Listed	5-10
Methacrylic Acid	79-41-4	201-204-4	Methacrylic Acid	N/E	20 ppm	Not Listed	2-5
Hydroxycyclohexyl phenyl ketone	947-19-3	213-426-9	Hydroxycyclohexyl phenyl ketone	N/E	N/E	Not Listed	0-1

N/E - None Established
N/R - Not Reviewed
N/DA - No Data Available
N/A - Not Available

Hazard Symbols: Xi Risk Phrases: R22, R36/38, R43 Safety Phrases: S18, S24/25, S36/37, S38

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

This information is based on findings from related or similar materials.

- May be slightly toxic.
- May cause moderate skin injury (reddening & swelling).
- May cause slight burn in eye.
- May cause slight respiratory tract irritation upon inhaling elevated amounts of this material.

Potential Health Effects, Signs and Symptoms of Exposure:

Primary Route of Entry	Although no specific information is available, please use heightened caution when handling this material.
Eye	Contains some materials that are essentially nonirritating, however contact may cause moderate irritation. Signs of irritation may include a burning sensation, tearing, redness, or swelling. Product contains Methacrylic acid, which has been known to cause corneal damage in full strength applications.
Skin	Causes moderate skin irritation (such as reddening and swelling) and/or sensitization. Prolonged contact may cause blister formation (burns). Methacrylic acid is a known skin sensitizer.
Ingestion	This material is expected to be a moderate ingestion hazard. May cause slight corrosion of tissue in the esophagus and digestive tract.
Inhalation	Low volatility makes vapor inhalation unlikely. However, aerosols or vapors which may be generated at elevated processing temperatures, may cause respiratory tract irritation. Symptoms of irritation may include coughing, nasal irritation, mucous production, and shortness of breath..
Sub-Chronic Effects	No specific information available.

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 any visual difficulty, seek medical attention.
First Aid for Skin	Remove contaminated clothing and wash contact area with soap and water for 15 minutes.
First Aid for 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.
First Aid for Ingestion	If appreciable quantities are swallowed, give lukewarm water (pint) if victim is completely

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conscious/alert. Do not induce vomiting, risk of damage to lungs exceeds poisoning risk. Seek emergency medical attention.

Section 5 - Fire Fighting Measures

Flash Point (°F/°C)	Flammable Limit (vol%)	Auto-ignition Temperature (vol%)
> 212 °F/100°C Setofflash	No Data	No Data

Method:	
Extinguishing Media:	Use carbon dioxide or dry chemical for small fires; aqueous foam or water for large fires.
Fire Fighting Instructions:	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 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 6 - Accidental Release Measures

Spill or Release Procedures Spontaneous polymerization can occur. Eliminate ignition sources. Use eye and skin protection. Place leaking containers in a well ventilated area. Dike and recover large spills. Soak up small spills with inert solids (such as vermiculite, clay) and sweep/shovel into disposal container. Wash spill area with strong detergent and water solution; rinse with water, but minimize water use during clean-up. 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. EU Regulations require the consultation of Directive 98/24/EC. Dispose and report per regulatory requirements if necessary. Please prevent washings from entering waterways.

Section 7 - Handling and Storage

Handling 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 UV light sensitive, avoid prolonged exposure to light/heat.

Storage Keep away from heat, sparks, and flame. Store in a tightly closed container. Store in a cool, dry, well-ventilated place, away from any type of light. Store at temperatures below 100°F/38°C.

Explosion Hazard 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.

Section 8 - Exposure Controls / Personal Protective Equipment

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 (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. A safety shower and eye wash facility should be readily available.

Eye/ Face Protection Chemical splash goggles. Contact lenses should not be worn.

Skin Protection Impervious gloves (Butyl rubber, Neoprene, and/or Nitrile).

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 masks 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.

Section 9 - Physical and Chemical Properties

Appearance A Clear, mobile viscous gel	Odor & Odor Threshold characteristic acrylate odor	pH NA	Specific Gravity (H2O=1) : 1.15	Viscosity N/DA	% Volatile By Volume : < 0.5		
Boiling Point/ Freezing Point N/A	Decomposition Temperature N/A	Octanol/Water Partitioning Coefficient Log Po/w N/A	Vapor Pressure: (mm Hg) @ 20 C : < 0.01	Vapor Density N/DA	Evaporation Rate N/DA	Ignition N/DA	Solubility In Water (20°C) Insoluble
Flash Point (°F/°C) > 212 °F/100°C Setaflash	Flammable Limit (vol%) No Data	Auto-ignition Temperature (vol%) No Data					

Section 10 - Stability and Reactivity

<p>Stability Normally Stable</p> <p>Hazardous Decomposition Products: Fumes produced when heated to decomposition may include: carbon monoxide, carbon dioxide.</p> <p>Conditions to Avoid: Storage >100°F, exposure to light, loss of dissolved air, loss of polymerization inhibitor, contamination with incompatible materials.</p>	<p>Incompatibility (Materials to Avoid): Polymerization initiators including peroxides, strong oxidizing agents, copper, copper alloys, carbon steel, iron, rust and string bases.</p> <p>Hazardous Polymerization: May occur -- Uncontrolled polymerization may cause rapid evolution of heat and increased pressure that could result in violent rupture of sealed storage vessels or containers.</p>
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Section 11 - Toxicological Information

Acute Oral Toxicity Oral (Rat) LD50 : <1 g/kg	Acute Dermal Toxicity Dermal(Rabbit) LD50: >2 g/kg	Acute Inhalation Toxicity No information available	Irritation - skin No information available	Irritation - Eye Eye (Rabbit): 0.67 (Scale 0-110)
<p>Since this product contains a very low concentration of active components, the primary toxicological information is derived from the oligomers. Further hazardous properties cannot be excluded. The product should be handled with care when dealing with chemicals.</p>				
Sensitization No information available	Mutagenicity Test positive as a mutagen on laboratory animals	Sub-chronic Toxicity No information available		

RTECS#: 79-41-4; OZ2975000
AMES TEST (oligomers): Neg

Section 12 - Ecological Information

Ecotoxicological Information

Acute Toxicity To Fish No information available	Acute Toxicity to Invertebrates No information available	Acute Toxicity to Algae No information available	Bioconcentration No information available	Toxicity to Sewage Bacteria No information available
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Chemical Fate Information

Biodegradability No information available	Chemical Oxygen Demand No information 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 supplies, wastewater, or soil.

Section 13 - Disposable Considerations

Non-contaminated, properly inhibited product is not a RCRA hazardous waste. It is the generators responsibility to determine what is classified as a hazardous waste. Comply with all federal, state, and local regulations.

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.

Section 14 - Transport Information

DOT (49 CFR 172)	
Proper Shipping Name:	Non-Regulated Material
Identification Number:	N/A
Marine Pollutant:	No
Special Provisions:	None
Emergency Response Guidebook (ERG) #:	N/A
IATA (DGR):	
Proper Shipping Name:	Non-Regulated Material
Class or Division:	N/A
UN or ID Number:	N/A
Packaging Instructions:	None
Emergency Response Guidance (ICAO)#:	N/A
IMO (IMDG):	
Proper Shipping Name:	Non-Regulated Material
Class or Division:	N/A
UN or ID Number:	N/A
Special Provisions & Stowage/Segregation:	None
Emergency Schedule (EmS)#:	N/A
Other Information:	Flash point >100°C

Section 15 - Regulatory Information

US Federal Regulations

Clean Air Act: HAP/ODS	This product contains the following hazardous air pollutants (HAP), as defined by the U. S. Clean Air Act: <ul style="list-style-type: none"> Benzophenone, CAS #119-61-9 (SOCMI) This product does not contain any Class 1 or Class 2 ODS.
Clean Water Act: Priority Pollutant	This product contains the following Hazardous Substances as defined by the CWA: <ul style="list-style-type: none"> NONE This product does not contain any substances that are a Priority Pollutant or Toxic Pollutant under the CWA.
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 Delayed (chronic) health hazard Reactive hazard
RCRA	This product contains the following RCRA codes under EPA's Resource, Conservation, and Recovery Act (40 CFR Part 261): <ul style="list-style-type: none"> NONE
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 302 (RQ)	This product contains the following chemicals regulated under Section 304 as extremely hazardous chemical for emergency release notification ("CERCLA" List): <ul style="list-style-type: none"> NONE
SARA Title III: 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 Delayed (chronic) health hazard Reactive hazard


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SARA Title III: Section 313:	This product contains the following 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: • NONE
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

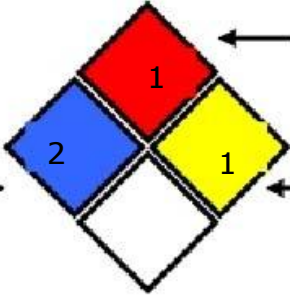
CA Right-to-Know Law: California No Significant Risk Rule:	Methacrylic Acid CAS #79-41-4. NONE
MA Right-to-Know Law:	Methacrylic Acid CAS #79-41-4.
NJ Right-to-Know Law:	Methacrylic Acid CAS #79-41-4.
PA Right-to-Know Law:	Methacrylic Acid CAS #79-41-4.
FL Right-to-Know Law:	Methacrylic Acid CAS #79-41-4.
MN Right-to-Know Law	Methacrylic Acid CAS #79-41-4, Benzophenone CAS #119-61-9


International Regulations

CDSL: Canadian Inventory (on Canadian Transitional List)	Trimethylolpropane Trimethacrylate esters CAS# 3290-92-4 is on the DSL List. WHMIS = n/da Benzophenone CAS #119-61-9 is on the DSL list. WHMIS = n/da Methacrylic Acid CAS #79-41-4 is on the DSL list. WHMIS = E Hydroxycyclohexyl phenyl ketone CAS #947-19-3 is on the DSL list. WHMIS = n/da
EINECS: European Inventory: 	Professional Builder Gel: • HAZARD SYMBOLS: Xi: Irritant • RISK PHRASES: R22: Harmful if swallowed, R36/38: Irritating to eyes 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.

Section 16 - Other Information

Hazard Rating System (Pictograms)

NFPA:  Health → 2, Flammability ← 1, Reactivity ← 1

HMIS: 

Revised Sections since Last Version:	Section 2 contents and format changes throughout
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