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11/27/200

## Section 1 – Identification of the Substance/Preparation and of the Company/Undertaking

**Product Name: ALL SYSTEM BONDING** 

Date: 2
MSDS Prepared BSQ

MSDS Approval

hv:

**Chemical Name: Primer** 

Manufacturer: CNC International BV

Product Use: ADHESION IMPROVEMENT

Burgemeesterlaan 2 – 6002 EG Weert - Netherlands Emergency Phone Numbers:+31-495-547409

Product#: D4005

Family: NAIL PRIMER

**Information Contacts:** +31-495-548213

## Section 2 - Composition/Information on Ingredients

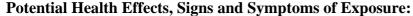
Chemical Identity	CAS Numbers	EINECS#:	INCI Name	Exposure OSHA TWA/STEL	Limits ACGIH TWA/STEL	Carcinogen  IARC/NTP/OSHA	%
Ethyl Acetate	141 - 78 - 6	205-500-4	Ethyl Acetate	400 ppm	400 ppm	Not Listed	80-85
2,2-bis-(4-(2-hydroxy-3- methacryloxypropoxy)BIS- GMA	1565-94-2	216-367-7	Isopropylidenediphenyl bisoxyhydroxypropyl methacrylate	N/E	N/E	Not Listed	5-10
2-Hydroxy ethyl methacrylate	868-77-9	205-769-8	HEMA	N/E	N/E	Not Listed	5-10
N/E - None Established N/R - Not Reviewed	N/DA - No Data Avai N/A - Not Applicable						

## 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.



Primary Route of Entry Inhalation, skin contact, eye contact

Eye Exposure causes eye irritation. Symptoms include stinging, tearing, redness and swelling.

Skin Can cause skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may include

redness, burning, drying, cracking, and skin burns.

Ingestion Swallowing small amounts during normal handling is not likely to cause harmful effects; swallowing

large amounts may be harmful. This material can get into the lungs during swallowing or vomiting.

Inhalation Vapor and mist are irritating to mucous membranes. Breathing small amounts during 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

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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. 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, 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 Measures

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 Wear self-contained breathing apparatus and protective clothing. USE WATER WITH

Instructions: 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 Measures

Spill or Release Procedures 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

Handling Keep containers cool and dry. Keep away from heat, light and ignition sources. Avoid breathing

high vapor concentrations. Avoid prolonged or repeated contact with skin. Use only with

adequate ventilation. Wash skin thoroughly after handling.

Storage Storage Store in a well ventilated area. Store @ 70 + 15 ° F, allow some air space above liquid level. Keep

containers closed while not in use.

Explosion Hazard Vapors are heavier than air and may travel along the ground or may be moved by ventilation and

ignited by pilot lights, other flames, sparks, heaters, smoking or other ignition sources at locations distant from material handling point. Never use welding or cutting torch on or near drum (even empty)

because product (even just residue) can ignite explosively.

#### Section 8 - Exposure Controls / Personal Protective Equipment

Engineering Controls Facilities storing or ultilizing this material should be equipped with an eye facility and safety shower.

Use process enclosures local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof ventilation equipment.

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**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.

Eye/ Face Protection Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA

regulations also permit other type of safety glasses.

Skin Protection Wear resistant gloves. To prevent repeated or prolonged skin contact, wear impervious clothing and

boots.

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 exsposure limits. Protection provided by air purifying respirators is limited. Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepeice airline respirator in the positive pressure mode with emergency escape provisions. Follow OSHA repsirator regulations found in 29 CFR 1910.134 or

Eurpean Standard EN 149.

## Section 9 - Physical and Chemical Properties

Appearan	ce Ode	or & Odor Threshold	$_{ m P}$ H	Specific Grav	rity	Viscosit	ty	% Volatile
Clear liqui	d	ester like odor	NA	(H2O=1):0.9	94	15 cps		V/W % : 50+
Boiling Point/	Decomposition	Octanol/Water	Vapor	Vapor	Evap	oration	Ignition	Solubility
Freezing Point	Temperature	<b>Partitioning Coefficient</b>	Pressure:	Density	R	Rate		In Water

ricezing i omi	i emperature	I al utioning Coefficient	i i essui e.	Density	Nate		III Water
		Log Po/w					(20°C)
N/DA	N/DA	N/DA	N/DA	(Air=1):1	NA	NA	Insoluble
***	1 TO 1 (070 (0.00)		1 1 T 4 4 ( 10 ( )			1.1 00	( 10()

TAG Closed: 26°F / -3.3°C 400 ppm 750 ° F - 900 ° F	Flash Point(°F/°C)	Flammable Limit(vol%)	Auto-ignition Temperature(vol%)
	TAG Closed: 26°H / -3 3°C	400 ppm	750 ° F - 900 ° F

#### Section 10 - Stability and Reactivity

Stable

Hazardous Decomposition Products:

Heated material produces NO2, CO2, CO

Conditions to Avoid:

Stability:

Heat, flame, ignition sources.

**Incompatibility (Materials to Avoid):** 

Avoid oxidizing agents, acids & bases (heat)

**Hazardous Polymerization:** 

May occur

#### Section 11 - Toxicological Information

Oral LD50 (rat): 4.0-6.0g/kg Dermal LD50 (rabbit): Inhalation LC50 (rat): Rabbit: slight Rabbit: slight >20mL/kg 3500 - 8000 ppm/4 hours	Acute Oral Toxicity	Acute Dermal Toxicity	Acute Inhalation Toxicity	Irritation - skin	Irritation - Eye
>20mL/kg 3500 - 8000 ppm/4 hours	Oral LD50 (rat): 4.0-6.0g/kg	Dermal LD50 (rabbit):	Inhalation LC50 (rat):	Rabbit : slight	Rabbit : slight
<i>B B B B B B B B B B</i>		>20mL/kg	3500 - 8000 ppm/4 hours		

Since this product contains a mixture of active components, the primary toxicological information is derived from the acetates. Further hazardous properties cannot be excluded. The product should be handled with care when dealing with chemicals.

Sensitization	Mutagenicity	Sub-chronic Toxicity
N/DA	E.Coli: DNA Damage: 20mol/L	N/DA

#### Section 12 - Ecological Information

#### **Ecotoxicological Information**

Acute Toxicity to Fish	Acute Toxicity to Invertebrates	Acute Toxicity to Algae	Bioconcentration	Toxicity to Sewage Bacteria
N/DA	N/DA	N/DA	N/DA	N/DA

#### **Chemical Fate Information**

Biodegradability	N/DA
Chemical Oxygen Demand	N/DA

To the best of our knowledge, the ecotoxocological and chemical fate properties have not been thoroughly investigated. Do not allow to enter drinking water supplies, wastewater, or soil.

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## Section 13 - Disposable Considerations

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:	Flammable liquids, n.o.s., (ethyl acetate, monomers), 3, UN1993,
	PGII
Identification Number:	UN1993
Marine Pollutant:	No
Special Provisions:	T8, T31
Emergency Response Guidebook (ERG) #:	128
IATA (DGR):	
Proper Shipping Name:	Flammable liquids, n.o.s., (ethyl acetate, monomers), 3, UN1993,
	PGII
Class or Division:	3
UN or ID Number:	UN1993
Packaging Instructions:	A3
Emergency Response Guidance (ICAO)#:	3L
IMO (IMDG):	
Proper Shipping Name:	Flammable liquids, n.o.s., (ethyl acetate, monomers), 3, UN1993,
	PGII
Class or Division:	3.2
UN or ID Number:	UN1993
Special Provisions & Stowage/Segregation:	None
Emergency Schedule (EmS)#:	307
Other Information:	Flash point = -3.3°C

# Section 15 - Regulatory Information

**US Federal Regulations** 

US rederal Regulations	
Clean Air Act: HAP/ODS	This product contains the following hazardous air pollutant (HAP), as defined by the U. S. Clean Air Act:  • NONE.  There are no ODS substances in this product.
Clean Water Act: HS/Priority Pollutant	This product contains the following chemicals listed under the U. S Clean Water Act Hazardous 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 as an indirect food additive.
Occupational Safety and Health Act	This product is considered to be hazardous under the OSHA Hazard Communication Standard. Its hazard are:  • IMMEDIATE (acute) HEALTH HAZARD  • FIRE HAZARD
RCRA	This product contains the following chemicals considered to be hazardous waste under RCRA ( 40 CFR 261):  • Ethyl Acetate CAS #141 - 78 - 6 RCRA Code: U112.

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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)	(RQ) This product contains chemicals regulated under Section 304 as extremely hazardous chemicals for 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 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 premanufacture notification requirements.	
TSCA Significant New Use Rule:	None of the chemicals listed have a SNUR under TSCA.	

**State Regulations** 

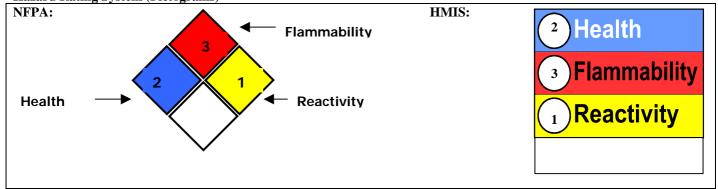
State Regulations	
CA Right-to-Know Law:	Ethyl Acetate CAS #141-78-6
California No Significant Risk Rule:	NONE
MA Right-to-Know Law:	Ethyl Acetate CAS #141-78-6
NJ Right-to-Know Law:	Ethyl Acetate CAS #141-78-6
PA Right-to-Know Law:	Ethyl Acetate CAS #141-78-6
FL Right-to-Know Law:	Ethyl Acetate CAS #141-78-6
MN Right-to-Know Law:	Ethyl Acetate CAS #141-78-6

**International Regulations** 

International Regulations	
CDSL: Canadian Inventory (on Canadian Transitional List)	Ethyl Acetate CAS #141-78-6 is on the DSL List. WHMIS = B2, D2B 2,2-bis-(4-(2-hydroxy-3-methacryloxypropoxy)BIS-GMA CAS# 1565-94-2 is n/da for the DSL List. WHMIS = n/da 2-Hydroxyethyl methacrylate CAS #868-77-9 on the DSL List. WHMIS = n/da
EINECS: European Inventory:	<ul> <li>All System Bonding:         <ul> <li>Hazard Symbols: Xi, F</li> </ul> </li> <li>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.</li> <li>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 plenty of water, S33: take precautionary measures against static discharges, S36/37: Wear suitable protective clothing and gloves.</li> </ul>

# Section 16 - Other Information

**Hazard Rating System (Pictograms)** 



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Revised Sections since Last Version: Updating formatting and Section II % content revision

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