

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Balance White Constructor Gel

MSDS Number: 640

GENERAL USE: Protective Coating

PRODUCT DESCRIPTION: Opaque liquid, characteristic acrylic odor



MANUFACTURER'S NAME Nail Systems International		DATE PREPARED: June 9, 2003	Page 1 of 4
ADDRESS (NUMBER, STREET, P.O. BOX) 2 Union Hill Road		SUPERSEDES: New	
(CITY, STATE AND ZIP CODE) W. Conshohocken, PA 19428		COUNTRY USA	TELEPHONE NUMBER FOR INFORMATION (610) 825-1524
DISTRIBUTOR'S NAME Same		EMERGENCY TELEPHONE NUMBER Infotrac (800) 535-5053 Outside USA (352) 323-3500	
ADDRESS (NUMBER, STREET, P.O. BOX)		TELEPHONE NUMBER FOR INFORMATION	
(CITY, STATE AND ZIP CODE)		EMERGENCY TELEPHONE NUMBER	

## SECTION 2 - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS	% (by weight)	CAS #	EINECS #	Hazard Symbol	RISK PHRASES Full Text Section 16
Urethane acrylate	47	Not specified	Not specified	None	Not classified
Urethane dimethacrylate (*)	28	74389-53-0	Not found	None	Not classified
Triethylene glycol dimethacrylate	10.3	109-16-0	203-652-6	Xn	R-36/37/38
Monofunctional Methacrylate	5	1565-94-2	216-367-7	Xi	R-41
Polyamide	5	112945-52-5	Not found	Xn	R-20, 36/37
Titanium Dioxide Cl	2.5	13463-67-7	236-675-5	None	Not classified
Photoinitiator	2	7473-98-5	231-272-0	Xn, N	R-22, 50/53

(\*) The ACGIH Time Weighted Average (TWA) has not been established nor has OSHA established the Permissible Exposure Limit (PEL) for this product, therefore the limits described have been established as guidelines by the manufacturer.

## SECTION 3 - HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

Opaque liquid, prolonged contact possibly irritating to eyes, skin and respiratory system; heat and light sensitive. Hazard symbols for this product: None Risk Phrases: Not classified

### POTENTIAL HEALTH EFFECTS

**INHALATION:** High concentrations are irritating to the respiratory tract; may cause headache, dizziness, nausea, vomiting and malaise. Chronic overexposures, or a single large dose, may cause sensitization and subsequent reaction to a later exposure to methacrylates at levels well below the TLV

**SKIN:** Brief contact may cause slight irritation; prolonged contact may cause moderate reddening, swelling and possible necrosis. Chronic exposure may result in skin sensitization, which can cause symptoms as a result of contact with very small amounts of liquid material or as a result of exposure to vapor.

**EYES:** Contact may cause irritation and pain associated with redness and swelling of the conjunctiva.

**INGESTION:** May cause headache, dizziness, diarrhea and general weakness.

**CARCINOGENICITY** NTP? No IARC MONOGRAPHS? No OSHA REGULATED? No

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**SECTION 4 - FIRST AID MEASURES**

**INHALATION:** Remove affected person to fresh air; provide oxygen if breathing is difficult; if affected person is not breathing, administer CPR and seek emergency medical attention.

**SKIN:** Remove contaminated clothing; wash affected area with soap and water; launder contaminated clothing before reuse; if irritation persists, seek medical attention.

**EYES:** Remove contact lenses. Flush eyes with clear running water for 15 minutes while holding eyelids open; if irritation persists, seek medical attention.

**INGESTION:** DO NOT induce vomiting; if vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs; seek immediate medical attention. Vomiting may be induced only under the supervision of a physician.

**SECTION 5 - FIRE FIGHTING MEASURES**

**GENERAL HAZARDS:** Product will support combustion. Products of combustion include compounds of carbon, hydrogen and oxygen, including carbon monoxide.

**EXTINGUISHING MEDIA**  
Carbon dioxide, water fog, dry chemical, chemical foam

**FIRE FIGHTING PROCEDURES**  
Firefighters must wear full facepiece self - contained breathing apparatus in positive pressure mode. Do not use solid stream of water since stream will scatter and spread fire. Fine water spray can be used to keep fire - exposed containers cool.

**UNUSUAL FIRE AND EXPLOSION HAZARDS**  
Closed containers can explode due to buildup of pressure when exposed to extreme heat.

**HAZARDOUS COMBUSTION PRODUCTS**  
Smoke, toxic fumes, oxides of carbon.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** WILL SUPPORT COMBUSTION. Do not wash to sanitary sewer. All spills - confine spill, soak up with approved absorbent, shovel product into approved container for disposal. Flush area with water, recover flush for proper disposal.

**SECTION 7 - HANDLING AND STORAGE**

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Keep container closed when not in use; protect containers from abuse; protect from extreme temperatures, open flames. This material will support combustion. Keep this and other chemicals out of reach of children.

**SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

HAZARDOUS COMPONENTS	NIOSH				ACGIH			
	TWA ppm	TWA mg/m3	STEL ppm	STEL mg/m3	TWA ppm	TWA mg/m3	STEL ppm	STEL mg/m3
Urethane acrylate		not established		--		not established		--
Urethane dimethacrylate (*)		not established				not established		
Triethylene glycol dimethacrylate		not established				not established		
Monofunctional Methacrylate		not established				not established		
Polyamide		6				6		
Titanium Dioxide		not established				not established		
Photoinitiator		not established				not established		

**PERSONAL PROTECTION:**  
**RESPIRATORY PROTECTION (SPECIFY TYPE):** None required while threshold limits (Section 8) are kept below maximum allowable concentrations; if TWA exceeds limits, NIOSH approved respirator approved for use in methacrylate - containing environments must be worn.

**PROTECTIVE GLOVES:** Neoprene or rubber gloves with cuffs.

**EYE PROTECTION:** Protective eyeglasses or chemical safety goggles. Refer to 29 CFR 1910.133 or European Standard EN166.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Coveralls, apron, or other equipment should be worn to minimize skin contact.

**WORK / HYGIENIC PRACTICES:** Practice safe workplace habits. Minimize body contact with this, as well as all chemicals in general.

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**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE AND ODOR Opaque liquid, characteristic acrylic odor	VAPOR PRESSURE < 0.001 mm Hg @ 20° C
pH Not applicable	SPECIFIC GRAVITY (WATER = 1) 1.080 - 1.150
BOILING POINT / BOILING RANGE > 300° F (> 150° C)	SOLUBILITY IN WATER Negligible
FLASH POINT > 200° F (> 93.3° C)	VISCOSITY Not specified
FLAMMABLE LIMITS LEL: Not applicable UEL: Not applicable	VAPOR DENSITY (AIR = 1) > 1
AUTOIGNITION TEMPERATURE Not determined	EVAPORATION RATE (WATER = 1) < 1

**SECTION 10 - STABILITY AND REACTIVITY**

STABILITY UNSTABLE: STABLE: XXX	CONDITIONS TO AVOID: Extreme temperatures, open flames
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INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers, strong acids

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Decomposition will not occur if handled and stored properly. In case of a fire, oxides of carbon, hydrocarbons, fumes, and smoke may be produced.

HAZARDOUS POLYMERIZATION MAY OCCUR: XXX WILL NOT OCCUR:	CONDITIONS TO AVOID: Depletion of inhibitor
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**SECTION 11 - TOXICOLOGICAL INFORMATION**

Hazardous Components	CAS # EINECS #	LD50 of Ingredient (Specify Species and Route)	LC50 of Ingredient (Specify Species)
Urethane acrylate	Not specified Not specified	Not established	Not established
Urethane dimethacrylate (*)	74389-53-0 Not found	Not established	Not established
Triethylene glycol dimethacrylate	109-16-0 203-652-6	10,837 mg / kg Oral - rat	Not established
Monofunctional Methacrylate	1565-94-2 216-367-7	Not established	Not established
Polyamide	112945-52-5 Not found	3160 mg / kg Oral - rat	Not established
Titanium Dioxide	13463-67-7 236-675-5	> 24,000 mg / kg Oral - rat	> 6,820 mg / m3 / 4H
Photoinitiator	7473-98-5 231-272-0	1694 mg / kg Oral - rat	Not established

**SECTION 12 - ECOLOGICAL INFORMATION**

No data are available on the adverse effects of this material on the environment. Neither COD nor BOD data are available. Based on the chemical composition of this product it is assumed that the mixture can be treated in an acclimatized biological waste treatment plant system in limited quantities. However, such treatment should be evaluated and approved for each specific biological system. None of the ingredients in this mixture are classified as a Marine Pollutant.

**SECTION 13 - DISPOSAL CONSIDERATIONS**

WASTE DISPOSAL METHOD: Dispose of in accordance with Local, State, and Federal Regulations. This product may produce hazardous vapors or fumes in a closed disposal container creating a dangerous environment. Refer to "40 CFR Protection of Environment Parts 260 - 299" for complete waste disposal regulations. Consult your local, state, or Federal Environmental Protection Agency before disposing of any chemicals. Do not flush to sanitary sewer or waterway.

**SECTION 14 - TRANSPORT INFORMATION**

PROPER SHIPPING NAME: Not Regulated

DOT HAZARD CLASS / Pack Group: Not regulated  
REFERENCE: Not Applicable  
UN / NA IDENTIFICATION NUMBER: None  
LABEL: None Required  
HAZARD SYMBOLS: None

IATA HAZARD CLASS / Pack Group: Not regulated  
IMDG HAZARD CLASS: Not regulated  
RID/ADR Dangerous Goods Code: Not regulated  
UN TDG Class / Pack Group: Not regulated

Note: Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100 - 177, IMDG, IATA, EU, United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

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**SECTION 15 - REGULATORY INFORMATION**

**TSCA (USA - Toxic Substance Control Act)**

All components of this product are listed on the U.S. Toxic Substances Control Act Chemical Inventory (TSCA Inventory) or are exempted from listing because a Low Volume Exemption has been granted in accordance with 40 CFR 723.50.

**SARA TITLE III (USA - Superfund Amendments and Reauthorization Act)**

311/312 Hazard Categories  
None

313 Reportable Ingredients:  
None

**CERCLA (USA - Comprehensive Response Compensation and Liability Act)**

None

**CPR (Canadian Controlled Products Regulations)**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

**IDL (Canadian Ingredient Disclosure List)**

Components of this product identified by CAS number and listed on the Canadian Ingredient Disclosure List are shown in Section 2.

**DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List)**

Components of this product identified by CAS number are listed on the DSL or NDSL and may or may not be listed in Section 2 of this document. Only ingredients classified as "hazardous" are listed in Section 2 unless otherwise indicated.

**EINECS (European Inventory of Existing Commercial Chemical Substances)**

Components of this product identified by CAS numbers are on the European Inventory of Existing Commercial Chemical Substances.

**RISK PHRASES:**

None

**SYMBOL(S) REQUIRED FOR LABEL**

None

**SAFETY PHRASES:**

S3/7/9 Keep container tightly closed in a cool place  
S20/21 When using do not eat, drink or smoke  
S37/39 Wear suitable gloves and eye/face protection

**SECTION 16 - OTHER INFORMATION**

Notes & full R-Phrase text

R20 Harmful by inhalation  
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed  
R22 Harmful if swallowed

R36/37 Irritating to eyes and respiratory system  
R36/37/38 Irritating to eyes, respiratory system and skin  
R41 Risk of serious damage to the eyes.  
R50/53 Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment

HMIS HAZARD RATINGS

HEALTH	2	0 = INSIGNIFICANT	3 = HIGH
FLAMMABILITY	1	1 = SLIGHT	4 = EXTREME
REACTIVITY	0	2 = MODERATE	
PERSONAL PROTECTIVE EQUIPMENT	C	Safety Glasses, Gloves, Apron	

REVISION SUMMARY:

This MSDS has been revised in the following sections: No revisions available

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The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.