

Material Safety Data Sheet

Section 1 – Identification

Product Name: HGTS

Manufacturer: NAILITE

4530 N HIATUS ROAD #109 SUNRISE, FL 33351

Chemical Name: N/A

Information Contacts: (954)741-2924

Emergency Phone Numbers: US & Canada (954)741-2924

Family: UV GELS

GEL Type: TYPE 2A

Product Use: NAIL GEL

PRODUCT#: HGTS

Emergency Phone Number: International: 1-352-323-3500

Section 2 - Hazards Identification

EMERGENCY OVERVIEW

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

- Flammable liquid and vapor!
- May be slightly toxic.
- May cause moderate skin injury (reddening & swelling).
- May cause chemical burn in eye.



Potential Health Effects, Signs and Symptoms of Exposure:

Primary Route of Entry No specific information available.

Eye Contains materials that are essentially nonirritating, but contact may cause slight transient irritation. Material may act as a Lachrymator (a substance which increases the flow of tears).

Skin Contains materials that may cause moderate skin injury (reddening and swelling) and/or sensitization. Prolonged contact may cause blister formation (burns). Since irritation may not occur immediately, contact can go unnoticed.

Ingestion May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

Inhalation May cause respiratory tract irritation with presence of monomer. Vapors may cause dizziness or suffocation.

Sub-Chronic Effects No specific information available. Limited tests showed no evidence of teratogenicity in animals. A lifetime skin painting study with mice showed no evidence of carcinogenicity.

NOTE: Refer to Section 11, Toxicological Information for Details

Section 3 - Composition/Information on Ingredients

Chemical Identity	CAS#	EINECS#	INCI (or other substance) Name	Exposure OSHA TWA/STEL	Limits ACGIH TWA/STEL	Carcinogen IARC/NTP/OSHA	%
Polyurethane Acrylate Oligomer	Exempt	N/E	Di-Hema Trimethylhexyl Dicarbamate*	N/E	N/E	Not Listed	70-75
Tetraethylene glycol Dimethacrylate	109-17-1	203-653-1	PEG-4 Dimethacrylate	N/E	N/E	Not Listed	15-20
Ethyl Methacrylate	97-63-2	202-597-5	Ethyl Methacrylate	100 ppm	100 ppm	Not Listed	5-10
Hydroxycyclohexyl phenyl ketone	947-19-3	213-426-9	Hydroxycyclohexyl phenyl ketone	N/E	N/E	Not Listed	1-3
D&C Violet #2	81-48-1	201-353-5	Violet 2/CI60725	N/E	N/E	Not Listed	0-1
N/E - None Established N/R - Not Reviewed	N/DA - No Data Available N/A - Not Applicable		* See section 16				

Polyurethane Acrylate Oligomer: Hazard Symbol: Xi Risk Phrases: R36/37/38 Safety Phrases: S14, S3/7, S62

Tetraethylene Glycol Dimethacrylate: Hazard Symbol: Xi Risk Phrases: R36/38 Safety Phrases: S21, S24/25, S26, S41

Ethyl Methacrylate: Hazard Symbol: F, Xi Risk Phrases: R11, R36/37/38, R43 Safety Phrases: S2, S9, S16, S29, S33

Hydroxycyclohexyl Phenyl Ketone: Hazard Symbol: Xi Risk Phrases: R36, R37, R38 Safety Phrases: S26, S37

See Section 16 for Risk and Safety Phrase Key

Section 4 - First Aid Measures

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First Aid for Eye	Flush with plenty of water for 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid. Do NOT allow victim to rub or keep eyes closed.
First Aid for Skin	Remove contaminated clothing and wash contact area with soap and water for 15 minutes. Get medical aid if symptoms persist. Wash clothing before reuse.
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	Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2 to 4 cupfuls of milk or water.

Section 5 – Fire Fighting Measures

Flash Point (°F/°C)	Flammable Limit (vol%)	Auto-ignition Temperature (vol%)
110°F/43°C Penske-Martin	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	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 sawdust. 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. 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.
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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 extremely light sensitive. Use extreme care and do not expose to natural or UV light, unless using material for it's intended use. Since the material is very photosensitive any type of light may initiate the curing process.
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. Store product in a totally opaque container.
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 Protection

Engineering Controls	Local exhaust recommended to control exposure which may result from operations generating aerosols and hot operations generating vapors.
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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	Wear safety glasses. Wear coverall chemical splash goggles and face shield when possibility exists for eye and face contact due to splashing or spraying material.
Skin Protection	Use impermeable clothing to prevent ANY contact with this product, such as gloves, apron, boots, or whole body suit. Nitrile rubber is better than PVC.
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	Odor & Odor Threshold	pH	Specific Gravity	Viscosity	% Volatile		
Clear, semi-viscous liquid	characteristic acrylate odor	NA	(H ₂ O=1) : 1.14	N/DA	By Volume : < 0.5		
Boiling Point/ Freezing Point	Decomposition Temperature	Octanol/Water Partitioning Coefficient Log Po/w	Vapor Pressure:	Vapor Density	Evaporation Rate	Ignition	Solubility In Water (20°C)
N/A	N/A	N/A	(mm Hg) @ 20°C: < 0.01	No Data	No Data	No Data	Insoluble
Flash Point (°F/°C)		Flammable Limit (vol%)		Auto-ignition Temperature (vol%)			
110°F/43°C Penske-Martin		No Data		No Data			

Section 10 – Stability and Reactivity

Stability Normally Stable	Incompatibility (Materials to Avoid): Polymerization initiators including peroxides, strong oxidizing agents, copper, copper alloys, carbon steel, iron, rust and string bases.
Hazardous Decomposition Products: Fumes produced when heated to decomposition may include: carbon monoxide, carbon dioxide.	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.
Conditions to Avoid: Storage <100°F/38°C, exposure to light, loss of dissolved air, loss of polymerization inhibitor, contamination with incompatible materials.	

Section 11 – Toxicological Information

Acute Oral Toxicity	Acute Dermal Toxicity	Acute Inhalation Toxicity	Irritation – skin	Irritation – Eye
No information available	No information available	No information available	No information available	No information available
Further hazardous properties cannot be excluded. The product should be handled with care when dealing with chemicals.				
Sensitization	Mutagenicity		Sub-chronic Toxicity	
No information available	No information available		No information available	

Section 12 – Ecological Information

Ecotoxicological Information

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

Chemical Fate Information

Biodegradability	No information available
Chemical Oxygen Demand	No information available

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 – Disposal Considerations

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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 methacrylate, acrylic esters), 3, PGIII
Identification Number:	UN1993
Marine Pollutant:	No
Special Provisions:	N/A
Emergency Response Guidebook (ERG) #:	128
IATA (DGR):	
Proper Shipping Name:	UN1993, Flammable liquids, n.o.s.,(ethyl methacrylate, acrylic esters), 3, PGIII
Class or Division:	3.2
UN or ID Number:	UN1993
Packaging Instructions:	
Emergency Response Guidance (ICAO)#:	
IMO (IMDG):	
Proper Shipping Name:	UN1993, Flammable liquids, n.o.s.,(ethyl methacrylate, acrylic esters), 3, PGIII
Class or Division:	3
UN or ID Number:	UN1993
Special Provisions & Stowage/Segregation:	None
Emergency Schedule (EmS)#:	
Other Information:	Flash point = 43°C

Section 15 – Regulatory Information

US Federal Regulations

Clean Air Act: HAP/ODS	This product contains hazardous air pollutants (HAP's), as defined by the U. S. Clean Air Act. They are as follows: <ul style="list-style-type: none"> NONE This product does not contain any Class1 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 is considered to be a hazardous waste under RCRA (40 CFR 261) RCRA Code: <ul style="list-style-type: none"> Ethyl methacrylate, CAS# 97-63-2, RCRA Code: U118 Characteristic of Ignitability, RCRA Code: D001
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 chemicals regulated under Section 304 as extremely hazardous chemicals for emergency release notification ("CERCLA" List): <ul style="list-style-type: none"> Ethyl Methacrylate CAS# 97-63-2, RQ(Lbs): 1000

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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
SARA Title III: Section 313:	This product contains the following substances 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: <ul style="list-style-type: none"> • 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 in this material have a SNUR under TSCA.

State Regulations

CA Right-to-Know Law:	NONE
California No Significant Risk Rule:	NONE
MA Right-to-Know Law:	Ethyl Methacrylate CAS #97-63-2
NJ Right-to-Know Law:	Ethyl Methacrylate CAS #97-63-2
PA Right-to-Know Law:	Ethyl Methacrylate CAS #97-63-2
FL Right-to-Know Law:	Ethyl Methacrylate CAS #97-63-2
MN Right-to-Know Law:	NONE

International Regulations

CDSL: Canadian Inventory (on Canadian Transitional List)	Ethyl methacrylate CAS #97-63-2 is on the DSL List. WHMIS = B2, D2B. Tetraethylene glycol dimethacrylate, CAS# 109-17-1 is not on the DSL List. WHMIS = n/da Hydroxycyclohexyl phenyl ketone CAS #947-19-3 is on the DSL list. WHMIS = n/da D&C Violet #2, CAS# 81-48-1 is not on the DSL List. WHMIS = n/da
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Labeling according to EC Directives – 1999/45/EC

European Community:	HGTS <ul style="list-style-type: none"> • HAZARD SYMBOLS: Xi: Irritant, F: Flammable • RISK PHRASES: R22: Harmful if swallowed, R36/37/38: Irritating to eyes, respiratory system, 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, S46: If swallowed seek medical advice immediately and show this container or label.
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EU Classes and Risk / Safety Phrases for Referenced Ingredients (See Section 2):

Hazard Symbols:

Xi – Irritants

F – Flammable substances or preparations

Risk Phrases:

R11 Highly flammable; R36/37/38 Irritating to eyes, respiratory system and skin; R43 May cause sensitization by skin contact

Safety Phrases:

S2 Keep out of the reach of children;

S3/7 Keep away from sources of ignition – No smoking; S9 Keep container in a well-ventilated place; S16 Keep container tightly closed in a cool place; S21 When using do not smoke; S24/25 Avoid contact with skin and eyes; S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice; S29 Do not empty into drains; S33 Take precautionary measures against static discharges; S37 Wear suitable gloves; S41 In case of fire and/or explosion do not breathe fumes; S62 If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label

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Hazard Rating System (Pictograms)

<p>NFPA:</p>	<p>HMIS:</p>
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* - Respiratory protection may be necessary depending on conditions of use. Refer to Section VIII of this MSDS for respiratory protection guidelines.

OSHA PEL for nuisance dust: 15 mg/m³ (total dust)
 5 mg/m³ (respirable dust)
 ACGIH PEL for nuisance dust: 10 mg/m³

MSDS Prepared by: BSQ

Revision History:	
	10/28/04 Format Update, section 2 <,> changed to ranges
	12/20/07 DOT Name update
	04/30/08 Updated INCI name for Polyurethane Acrylate Oligomer. <small>* Most gels are composed of oligomers made primarily from urethane methacrylates. Nailite is using the designation Di HEMA Trimethylhexyl Dicarbamate, the official INCI name of urethane dimethacrylate, which is substantially the equivalent of Polyurethane Acrylate Oligomer.</small>
	09/16/08 Updated section 16
	10/22/08 Updated format
	11/13/08 Updated Risk and Safety Phrases
	12/09/08 Updated specific gravity
	02/11/09 Fix spelling of medical in section 4 and spelling of sensitization in section 16
	03/18/09 Updated to meet Globally Harmonized System requirements. Added the EU address to section 1. Switched location of section 2 with section 3. Changed the title in sections 1, 8, and 13. Moved MSDS preparation to section 16.
	01/25/10 Added international emergency phone number to section 1

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