

Material Safety Data Sheet **OPTI MIST CERAMIC SPRAYING LIQUID** Page 1 of 6

Section I – Product and Company Identification

Product Name: OPTI MIST CERAMIC SPRAYING LIQUID
(Air Brush Liquid)

Chemical Name: NA

MSDS Approval Date: 09/17/2003	
MSDS Prepared by:	BSQ

Family: Accessories

Manufacturer: Keystone Industries
616 Hollywood Ave Cherry Hill NJ 08002
Emergency Phone Numbers: (800) 535-5053
Information Contacts: (856)-663-4700


Product Use: Dental Opaquing
Product Number: 5920280, 5920288

Section II – Composition/Information on Ingredients

Chemical Identity	CAS Numbers	EINECS#:	INCI (or other substance) 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	60-100
Propylene glycol	57-55-6	200-338-0	1,2-Dihydroxypropane	N/E	N/E	Not Listed	0-40
N/E – None Established	N/DA – No Data Available						
	N/A – Not Applicable						
N/R – Not Reviewed							

Hazard Symbols: Xn, F
Risk Phrases: R11, R20/22, R36/37/38
Safety Phrases: S7/9, S16, S24/25, S33, S37/39, S45

Section III – Hazards Identification

<p>EMERGENCY OVERVIEW</p> <p>This information is based on findings from related or similar materials.</p>	
<ul style="list-style-type: none"> • 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	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 and cracking, and skin burns.
Ingestion	Causes irritation to the skin. Symptoms may include nausea, vomiting and diarrhea.
Inhalation	Vapor and mist are irritating to mucous membrane. 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	Acute exposure: May cause headaches, nausea, vomiting, and narcotic effects if over-exposed. Chronic inhalation may cause effects similar to those of acute inhalation. Chronic overexposure may cause anemia with leukocytosis (transient increase in the white blood cell count) and damage to the liver and kidneys.

NOTE: Refer to Section 11, Toxicological Information for Details

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Section IV – First Aid Measures

First Aid for Eye	If symptoms develop, move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 min. 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	DO NOT induce vomiting. If victim is conscious and alert, give 2 to 4 cupfuls of milk or water. Get medical aid immediately. If individual is drowsy or unconscious do not give anything by mouth. Place individual on the leftside with the head down. If possible, do not leave individual unattended.

Section V - Fire Fighting Measures

Flash Point (°F/°C)	Flammable Limit (vol%)	Auto-ignition Temperature (vol%)
TAG Closed: 24°F/-4°C	LEL = 2.0% UEL = 11.4%	N/DA

Method:

Extinguishing Media:	Foam, dry chemical, cold water spray.
Fire Fighting Instructions:	Wear self-contained breathing apparatus and protective clothing. USE WATER WITH CAUTION. Use water spray 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 and oxides of nitrogen. 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 VI - 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. 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 VII - 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, breathing, and clothes. Use only with adequate ventilation. Ground all metal containers when transferring and use explosion-proof equipment. Follow all MSDS/label precautions even after the container is emptied because it may retain product residues. Wash thoroughly after handling.
Storage	Store in well ventilated area. Store @ 70°F +/- 15°F, allow some air space above liquid level. Keep containers closed while not in use.

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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 VIII - Exposure Controls / Personal Protective Equipment

Engineering Controls Facilities storing or utilizing 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.

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 and Neoprene 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 air purifying respirators is limited. Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions. Follow OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use local exhaust.

Section IX - Physical and Chemical Properties

Appearance	Odor & Odor Threshold	pH	Specific Gravity	Viscosity	% Volatile
Clear, colorless mobile liquid	fruity ester odor	NA	(H2O =1): o.g.	N/DA	W/W % : 99+

Boiling Point/ Freezing Point	Decomposition Temperature	Octanol/Water Partitioning Coefficient Log Po/w	Vapor Pressure:	Vapor Density	Evaporation Rate	Ignition	Solubility In Water
77°C	N/DA	N/DA	73 mmHg @ 20°C	(Air=1): 3	(Butyl Acetate =1): 2.5	N/DA	(20°C) 8.7%

Flash Point (°F/°C)	Flammable Limit (vol%)	Auto-ignition Temperature (vol%)
TAG Closed: 24°F/-4°C	LEL = 2.0% UEL = 11.4%	N/DA

Section X - Stability and Reactivity

<p>Stability: Stable</p> <p>Hazardous Decomposition Products: Heated material produce NO2 , CO2 , CO</p> <p>Conditions to Avoid: Heat, flame, ignition sources.</p>	<p>Incompatibility (Materials to Avoid): Avoid oxidizing agents, acids & bases (heat)</p> <p>Hazardous Polymerization: Will not occur</p>
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Section XI - Toxicological Information

Acute Oral Toxicity	Acute Dermal Toxicity	Acute Inhalation Toxicity	Irritation - skin	Irritation - Eye
N/DA	N/DA	N/DA	N/DA	N/DA
Sensitization		Mutagenicity		Sub-chronic Toxicity
N/DA		N/DA		N/DA

Section XII - 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

Section XIII - 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.

Section XIV - Transport Information

DOT (49 CFR 172)	
Proper Shipping Name:	Flammable liquids, n.o.s., (ethyl acetate, propylene glycol), 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, propylene glycol), 3, UN1993, PGII
Class or Division:	3
UN or ID Number:	UN1993
Packaging Instructions:	
Emergency Response Guidance (ICAO)#:	3L
IMO (IMDG):	
Proper Shipping Name:	Flammable liquids, n.o.s., (ethyl acetate, propylene glycol), 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 = -4°C

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Section XV - Regulatory Information
US Federal Regulations

Clean Air Act: HAP/ODS	This product contains the following hazardous air pollutant (HAP), as defined by the U. S. Clean Air Act: <ul style="list-style-type: none"> NONE There are no Class I or II ODS (Ozone Depleting Substances) in this product.
Clean Water Act: Priority Pollutant/Hazardous Substance	The following ingredients are listed as hazardous pollutants under the CWA: <ul style="list-style-type: none"> NONE There are no chemicals listed as a priority pollutant as described by 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 hazardous under the OSHA Hazard Communication Standard. Its hazard are: <ul style="list-style-type: none"> Immediate (acute) health hazard Fire hazard Delayed (chronic) health hazard
RCRA	This product contains the following chemicals considered to be hazardous waste under RCRA (40 CFR 261): <ul style="list-style-type: none"> Ethyl Acetate, CAS#141-78-6, RCRA Code: U112 D001 for characteristic of ignitability
SARA Title III: Section 302	This product contains no chemicals regulated under Sec. 302 as extremely hazardous substances.
SARA Title III: Section 304	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 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: <ul style="list-style-type: none"> Immediate (acute) health hazard Fire hazard Delayed (chronic) health hazard
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: <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.



State Regulations

CA Right-to-Know Law:	Ethyl Acetate CAS #141-78-6
California No Significant Risk Level:	None of the chemicals in this product are listed.
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, Propylene glycol CAS# 57-55-6
FL Right-to-Know Law:	Ethyl Acetate CAS #141-78-6
MN Right-to-Know Law:	Ethyl Acetate CAS# 141-78-6, Propylene glycol CAS# 57-55-6

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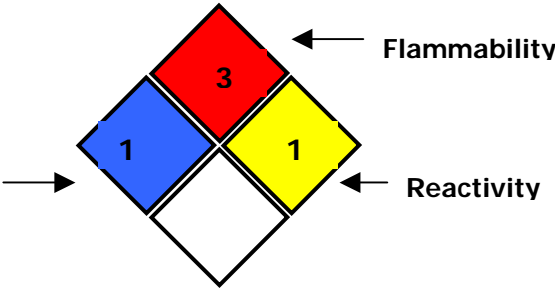
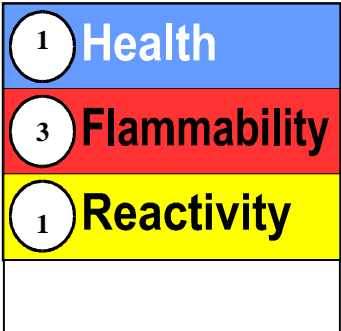
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International Regulations

CDSL: Canadian Inventory (on Canadian Transitional List)	Ethyl Acetate, CAS# 141-78-6 is on the DSL list. WHMIS = B2, D2B. Propylene glycol, CAS# 57-55-6 is on the DSL list. WHMIS = D2B
EINECS: European Inventory:  	<ul style="list-style-type: none"> HAZARD SYMBOLS: Xn, F: Harmful, Highly Flammable RISK PHRASES: R11, highly flammable, R20/22: Harmful by inhalation and if swallowed, R36/37/38: Irritating to eyes, respiratory system and skin SAFETY PHRASES: S7/9: keep container tightly closed and in a well ventilated place, S16: keep away from sources of ignition- no smoking, S24/25: avoid contact with skin and eyes, S33: take precautionary measures against static discharges, S37/39: wear suitable gloves and eye/face protection, S45: In case of accident or if you feel unwell, seek medical advise immediately (show the label where possible)

Section XVI - Other Information

Hazard Rating System (Pictograms)

NFPA: 	HMIS: 
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Revised Sections since Last Version:	July 2002 Initial Issue
	09/17/2003 Format Revision
	09/11/2007 Section 1 and 2 update.

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