

SAFETY DATA SHEET

Veneer Lock Liquid

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Name Veneer Lock Liquid

Item Number: 14-3000

Product Description

Contact Adhesive for Retention Beads

CAS No.

25086-15-1

Identified use(s)

Contact Adhesive for Retention beads or crystals. Beads for dental & jewelry making in lost wax technique

Uses advised against

None known.

Manufacturer

George Taub Products & Fusion Co., Inc.
277 New York Ave, Jersey City, NJ 07307 USA
Phone: 1-201-798-5353
Email:sales@taubdental.com

Emergency Phone No.

CHEMTREC for Transport / Medical 1-800-424-9300 (US)
+1-703-527-3887 (Outside US)

2. HAZARDS IDENTIFICATION

Hazard classification:

Acute Tox. 4 Inhalation.Acute Tox.4 Oral. Care.18.Eye Irrit 2. Flam. Liq.2. Muta. 1B. Skin Irrit. 2, STOT RE 2,STOT SE 3 NE. STOT SE 3 RTI

Label elements

Symbol(s) of Product



Signal word(s)

Danger

GHS HAZARD STATEMENTS

Flammable Liquid. category 2	H225	Highly flammable liquid and vapor.
Acute Toxicity, Oral, category 4	H302	Harmful if swallowed.
Skin Irritation, category 2	H315	Causes skin irritation
Eye Irritation, category 2	H319	Causes serious eye irritation.
Acute Toxicity, Inhalation. category 4	H332	Harmful if inhaled.
STOT,single exposure. category 3. RTI	H335	May cause drowsiness or dizziness.
Germ Cell Mutagenicity. category 1B	H340	May cause genetic defects . Classified as mutagenic Category 1 if one ingredient is present at or above 0.1% Applies to liquids, Solids (w/w units) and gases (v/v). The substance may also have its own exposure limit. Routes of exposure are dependent on ingredient form.
Carcinogenicity, category 1B	H350	May cause cancer.. Classified as carcinogenic Category 1 on the basis of epidemiological and/or animal data. Mixtures are classified as carcinogenic when at least 1 ingredient has been classified as carcinogenic and is present at 0.1% or above. Routes of exposure are dependent on ingredient form.
STOT,repeated exposure, category 2	H373	May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure, if it is conclusively proven that no other routes of exposure cause the hazard>

SAFETY DATA SHEET

Veneer Lock Liquid

GHS PRECAUTIONARY STATEMENTS

LABEL PRECAUTIONARY STATEMENTS	
P201	Obtain special instructions before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P281	Use personal protective equipment as required.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P337+P313	IF exposed or concerned: Get medical advice/attention.
P362	Take off contaminated clothing.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

SDS PRECAUTIONARY STATEMENTS	
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment
P242	Use only non-sparking tools
P243	Take precautionary measures against static discharge
P270	Do not eat, drink, or smoke when using this product.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Wt. %	GHS Symbols	GHS Statements
Toluene	108-88-3	50-75	GHS02-GHS03, GHS07-GHS08	H225-270-302-304-315- 332-335, 336-373
Methyl ethylketone (MEK)	78-93-3	10-25	GHS02-GHS03- GHS07	H225-270-319-332-336
Light aliphatic solvent naphtha	64742-89-8	2.5-10	GHS03-GHS06- GHS08	H270-304-331-340-350
n-Heptane	142-82-5	2.5-10	GHS02-GHS03, GHS07-GHS08	H225-270-304-315-336
Magnesium oxide fume	1309-48-4	1.0-2.5	GHS03	H270

The text for GHS Hazard Statements shown above (if any) is given in the "Other information" Section.

SAFETY DATA SHEET

Veneer Lock Liquid

4. FIRST AID MEASURES

FIRST AID- INHALATION: If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately. NOTE: Only trained personnel should administer artificial respiration or give oxygen.

FIRST AID- SKIN CONTACT: Wash skin with soap and water for 15 minutes. Get medical aid if symptoms persist. Remove and wash contaminated clothing. DO NOT try to peel the solidified material from the skin or use solvents or thinners to dissolve it. The use of vegetable oil or mineral oil is recommended for removal of this material from the skin. Flush exposed area with water while removing contaminated clothing. Get medical attention if irritation persists. To remove from skin: remove completely with a dry cloth or paper towel, before washing with detergent and water.

FIRST AID- EYE CONTACT: If material gets into eyes, flush with water immediately for 15 minutes. Consult a physician.

FIRST AID- INGESTION: If swallowed, DO NOT INDUCE VOMITING. Get medical attention immediately.

5. FIRE-FIGHTING MEASURES

UNUSUAL FIRE AND EXPLOSION HAZARDS: Eliminate sources of ignition: heat, electrical equipment, sparks and flames. Vapors can form an ignitable mixture with air. Vapors can flow along surfaces to a distant ignition source and flash back. Vapors may form explosive mixtures with air. Containers may explode if exposed to extreme heat. Empty containers retain product residue (liquid and/or vapor). Vapor can ignite potentially causing an explosion.

SPECIAL FIREFIGHTING PROCEDURES: Wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear. Use water spray to cool exposed surfaces. Cool fire-exposed containers using water spray.

EXTINGUISHING MEDIA: Carbon Dioxide, Dry Chemical Foam.

6. ACCIDENTAL RELEASE MEASURES

ENVIRONMENTAL MEASURES: No Information

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: NOTE: Review fire hazards before proceeding with clean up. Immediately eliminate sources of ignition. Keep people away from and upwind of spill/leak. Scrape up dried material and place into containers. Prevent product from entering drains. Soak up with inert absorbent material and dispose of as hazardous waste. Read all product instructions before using. Personal protective equipment should include impervious gloves, protective eye wear, and suitable work clothes.

SAFETY DATA SHEET

Veneer Lock Liquid

7. HANDLING AND STORAGE

HANDLING: KEEP OUT OF REACH OF CHILDREN! DO NOT TAKE INTERNALLY. Remove all sources of ignition. Keep away from open flames, hot surfaces and sources of ignition. Provide adequate ventilation. Avoid heat, sparks and open flames. Wear appropriate personal protection. Avoid breathing vapor and contact with eyes, skin and clothing. Use in well ventilated area. Open all windows and doors or use other means to ensure cross-ventilation and fresh air entry during application and drying. Odor is not an adequate warning for hazardous conditions. Empty containers retain product residue (liquid and/or vapor). Vapor can ignite potentially causing an explosion. Wash thoroughly after handling. Do not use in areas where static sparks may be generated. Intentional misuse by deliberately concentrating and inhaling vapors may be harmful or fatal. Construction and repair activities can adversely affect indoor air quality. Consult with occupants or a representative (i.e. maintenance, building manager, industrial hygienist, or safety officer) to determine ways to minimize impact.

STORAGE: Store away from sources of ignition and heat. Do not store at temperatures above 120 degrees F. Store containers away from excessive heat and freezing. Store away from caustics and oxidizers. Keep containers tightly closed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Substance	CAS No.	ACGIH TLV-TWA	ACGIH TLV STEL	OSHA PEL-TWA	OSHA PEL-CEILING
Toluene	108-88-3	20 ppm	NE	200 ppm	300 ppm
Methyl Ethyl Ketone (MEK)	78-93-3	200 ppm	300 ppm	200 ppm	590 NE
Light aliphatic solvent (Naptha)	64742-89-8	NE	NE	NE	NE
n-Heptane	142-82-5	400 ppm Heptane all isomers	500 ppm Heptane all isomers	500 ppm/ 2000 mg/m3	
Magnesium oxide fume	1309-48-4	10 mg/m3	Ne	15 mg/m3	NE

Further Advice: MEL = Maximum Exposure Limit OES = Occupational Exposure Standard SUP = Supplier's Recommendation Sk = Skin Sensitizer N.E. = Not Established

SAFETY DATA SHEET

Veneer Lock Liquid

8. EXPOSURE CONTROLS/PERSONAL PROTECTION Cont'd



RESPIRATORY PROTECTION: A NIOSH-approved air purifying respirator with an organic vapor cartridge or canister may be necessary under certain circumstances where airborne concentrations are expected to exceed exposure limits. If concentrations exceed the exposure limits specified, use of a NIOSH-approved supplied air respirator is recommended. Where the protection factor is exceeded, use of a Self Contained Breathing Apparatus (SCBA) may be necessary. If you experience eye watering, headache or dizziness or if air monitoring demonstrates vapor/mist levels are above applicable limits, wear and appropriate, properly fitted respirator (NIOSH approved) during and after application. A respiratory protection program that meets the OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever work place conditions warrant a respirator's use.



SKIN PROTECTION: Solvent-resistant gloves.

EYE PROTECTION: Goggles or safety glasses with side shields.

OTHER PROTECTIVE EQUIPMENT: Provide eyewash and solvent impervious apron if body contact may occur.

HYGIENIC PRACTICES: Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Tan	Physical State:	Liquid
Odor:	Strong Solvent	Odor Threshold:	NE
Density, g/cm ³	0.88-0.88	pH:	NA
Freeze Point, °C:	NE	Viscosity (mPa.s):	NE
Solubility in Water;	NE	Partition Coefficient., n-octanol/water;	NE
Decomposition Temperature, °C:	NE	Explosive Limits, %	NI-NI
Boiling Range, °C:	76.7-82.2	Auto-Ignition Temp, °C:	NE
Minimum Flash Point, °C:	-6.1	Vapor Pressure, mmHg:	No Info
Evaporation Rate:	Faster Than n-Butyl Acetate	Flash Method:	Seta Closed Cup
Vapor Density:	Heavier Than Air		
Combustibility:	NA		

SAFETY DATA SHEET

Veneer Lock Liquid

10. STABILITY AND REACTIVITY

STABILITY: Stable under recommended storage conditions.

CONDITIONS TO AVOID: Keep away from open flames, hot surfaces and sources of ignition. Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions. Avoid contact with skin, eyes and clothing. Do not smoke.

INCOMPATIBILITY: Open flames, hot surfaces and sources of ignition. Keep away from strong oxidizing agents, heat and open flames. Exothermic reaction with strong acids. Strong oxidizers, alkali metals and alkaline earth metals may cause fires or explosions.

HAZARDOUS DECOMPOSITION PRODUCTS: Normal decomposition products. i.e. • CO_x, NO_x.

11. TOXICOLOGICAL INFORMATION

EFFECT OF OVEREXPOSURE - INHALATION: Inhalation of vapors may cause irritation of the nose, throat, lungs and respiratory tract. Inhalation of vapors in high concentration may cause shortness of breath (lung edema). Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Prolonged, repeated or high exposures may cause central nervous system depression leading to headaches, nausea, drowsiness, dizziness, and possibly narcosis. In extreme cases, may cause loss of consciousness.

EFFECT OF OVEREXPOSURE - SKIN CONTACT: Harmful if absorbed through the skin. May cause skin irritation. Prolonged and repeated skin contact may cause dermatitis, drying and defatting due to the solvent properties.

EFFECT OF OVEREXPOSURE - EYE CONTACT: May cause eye irritation. Signs and symptoms may include: pain, tears, swelling, redness and blurred vision.

EFFECT OF OVEREXPOSURE - INGESTION: Harmful or fatal if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause gastro-intestinal disturbances with dizziness and central nervous system depression. If ingested, may cause depressed respiration. Aspiration hazard if swallowed. Aspiration of material into the lungs due to vomiting can cause chemical pneumonitis, which can be fatal.

CARCINOGENICITY: No Information

PRIMARY ROUTE(S) OF ENTRY: Inhalation, Skin Contact

Acute Toxicity Values

The acute effects of this product have not been tested. Data on individual components are tabulated below

Substance	CAS No.	Oral LD50	Dermal LD50	Vapor LC50
Toluene	108-88-3	636 mg/kg Rat	8390 mg/kg Rabbit	12.5 mg/L Rat
Methyl Ethyl Ketone (MEK)	78-93-3	> 2737 mg/kg Rat	> 5000 mg/kg Rabbit	23.5 mg/L Rat
Light aliphatic solvent (Naphtha)	64742-89-8	5000 mg/kg Mouse	3000 mg/kg Rabbit	> 4.96 mg/L Rat
n-Heptane	142-82-5	5000 mg/kg Rat	3000 mg/kg Rabbit	> 29.29 mg/L Rat
Magnesium oxide fume	1309-48-4	> 2000 mg/kg	> 2000 mg/kg	> 20 mg/L

SAFETY DATA SHEET

Veneer Lock Liquid

12. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Ecological injuries are not known or expected under normal use.

13. DISPOSAL CONSIDERATIONS

DISPOSAL INFORMATION: Residues and spilled material are hazardous waste due to ignitability. Dispose of material in accordance with all federal, state and local regulations. State and Local regulations/restrictions are complex and may differ from Federal regulations. Responsibility for proper waste disposal is with the owner of the waste. Liquids cannot be disposed of in a landfill. Do not flush into surface water or sanitary sewer system. Do not empty into drains. Do not re-use empty containers. The container for this product can present explosion or fire hazards, even when emptied. To avoid risk of injury, do not cut, puncture, or weld on or near this container.

14. TRANSPORT INFORMATION

SPECIAL TRANSPORT PRECAUTIONS: No Information

DOT UN/NA Number:	UN1993
DOT Proper Shipping Name: DOT Technical Name:	Flammable Liquid, nos (contains Ethyl Methyl Ketone)
DOT Hazard Class: Hazard SubClass: Packing Group:	2

15. REGULATORY INFORMATION

U.S. Federal Regulations

CERCLA – SARA Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Fire Hazard. Acute Health Hazard, Chronic Health Hazard

SARA SECTION 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund

Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical Name	CAS-No.
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Toluene	108-88-3
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TOXIC SUBSTANCES CONTROL ACT:

All ingredients in this product are either on TSCA inventory list. or otherwise exempt.

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(6) if exported from the United States:

No TSCA 12(b) components exist in this product.

CALIFORNIA PROPOSITION 65 CARCINOGENS

WARNING: This product contains chemicals known to the State of California to cause cancer.

CALIFORNIA PROPOSITION 65 REPRODUCTIVE TOXINS

WARNING: This product contains chemicals known to the State of California to cause birth defects or other reproductive harm.

International Regulations: As follows -

CANADIAN WHMIS:

This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings. WHMIS Class No Information

SAFETY DATA SHEET

Veneer Lock Liquid

16. OTHER INFORMATION

Revision Date: 11/02/2015 Supersedes Date: 7/18/2013

Reason for revision:

Datasheet produced by:

HMIS Ratings:

[Health 2- Flammability3

Reactivity

Personal Protection: _x

HazCom2012/GHS Conversion

Regulatory Department

VOC Less Water Less Exempt Solvent,g/L705.5

VOC Material, g/L:704

VOC as Defined by California Consumer Product Regulation, Wt/Wt%:80.4

Text for GHS Hazard Statements shown in Section 3 describing each ingredient:

H225	Highly flammable liquid and vapor. May cause or intensify fire; oxidizer. Harmful if
H270	swallowed.
H302	May be fatal if swallowed and enters airways. Causes skin irritation.
H304	Causes serious eye irritation. Toxic if inhaled.
H315	Harmful if inhaled.
H319	May cause respiratory irritation.
H331	May cause drowsiness or dizziness.
H332	May cause genetic defects <state route of exposure if it is conclusively proven that no
H335	other routes of exposure cause the hazard>.
H336	May cause cancer.
H340	May cause damage to organs <or state all organs affected, if known> through
	prolonged or repeated exposure <state route of exposure if it is conclusively proven
H350	that no other routes of exposure cause the
H373	hazard>.

Icons for GHS Pictograms shown in Section 3 describing each ingredient:

GHS02



GHS07



GHS03



GHS09



GHS06



Legend: N.A. - Not Applicable. N.E. - Not Established, N.D. - Not Determined

George Taub Products & Fusion Co. Inc., believes the data and statements contained herein are accurate as of the date hereof. They are offered in good faith as typical values and not as a product specification. NO WARRANTY OF MERCHANTABILITY, WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED. IS MADE WITH REGARD TO THE INFORMATION HEREIN PROVIDED OR THE PRODUCT TO WHICH THE INFORMATION REFERS.

Since this document is intended only as a guide to the appropriate use and precautionary handling of the referenced product by a properly trained person, it is therefore the responsibility of the user to (i) review the recommendations with due consideration for the specific context of the intended use and (ii) determine if they are appropriate based on the intended use, amount of time spent with the product, where and how it is used, and the volume of the liquid being used at the time of application and the amount of liquid in the actual container.