SAFETY DATA SHEET SOFRELINER TOUGH S-Paste

1. IDENTIFICATION

Product Name	SOFRELINER TOUGH S-Paste	
Identified uses	Denture Liner, a component of kit. For dental professionals only.	
Supplier	Tokuyama Dental America Inc. Tel: (877) 378 3548 (Toll-Free)	
Contact Person	http://www.tokuyama-dental.com/contact.htm	
Manufacturer	Tokuyama Dental Corporation	
	38-9, Taitou 1-chome, Taitou-ku, Tokyo	
	110-0016, Japan	
	TEL: +81-3-3835-2261	
Emergency Telephone	Washington	
	National Capital Poison Center	
	3201 New Mexico Avenue, Suite 310	
	Washington,	
	DC 20016	
	Telephone: +1 202 362 3867 Emergency telephone: +1 800 222 1222	
	Energency telephone. 11 000 222 1222	
	E-mail: pc@poison.org	
	Web site: http://www.poison.org	
	San Francisco	
	California Poison Control System	
	at San Francisco General Hospital	
	University of California San Francisco, Box 1369	
	1001 Potrero Avenue, Bldg 5 Rm 2A21	
	San Francisco, California 94143-1369	
	Telephone: +1 415 643 3200	
	Emergency telephone: +1 800 222 1222 Fax: +1 415 502 6010	
	E-mail: coadmin@calpoison.org	
	Web site: http://www.calpoison.org	
	http://www.who.int/ipcs/poisons/centre/en/	

2. HAZARD(S) IDENTIFICATION

Appearance Color Odor GHS Pictogram

No pictogram required.

GHS Classification

Physical and Chemical HazardsNot classified.Human healthNot classified.EnvironmentNot classified.

Hazard Not Otherwise Classified (HNOC)

Not applicable.

OSHA Regulatory Status

This Product is Not Hazardous under the OSHA Hazard Communication Standard.

General Information

Prolonged skin contact may cause redness and irritation. May cause minor irritation on eye contact.

Transparent paste

No information available.

Pink

3. COMPOSITION/INFORMATION ON INGREDIENTS

SILICON DIOXIDE		10-30%
CAS No.: 7631-86-9	EC No.: 231-545-4	
GHS Classification Not classified.		
α, ω-DIVINYL POLYDIMETHYLSILOXA	NE	50-80%
CAS No.: 68083-19-2	EC No.:	
GHS Classification Not classified.		
4. FIRST-AID MEASURES		

Description of first aid measures

General Information

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

Inhalation

Move the exposed person to fresh air at once.

Ingestion

Try to induce vomiting. Get medical attention.

Skin Contact

Wash the skin immediately with soap and water.

Eye Contact

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Contact physician if irritation persists.

Most important symptoms and effects, both acute and delayed

Ingestion Not Irritating. Skin Contact Prolonged and frequent contact may cause redness and irritation. Eye Contact Irritating and may cause redness and pain.

Indication of any immediate medical attention and special treatment needed

Notes To The Physician

Treat Symptomatically. Wear suitable protective clothing.

5. FIRE-FIGHTING MEASURES

Auto Ignition Temperature (°C) Not available. Flammability Limit - Lower(%) Not available. Flammability Limit - Upper(%) Not available. Flash point (°C) Not available. Extinguishing Media Fire can be extinguished using: Foam. Carbon dioxide or dry powder. Specific Hazards

When heated and in case of fire, irritating vapors/gases may be formed.

Special Fire Fighting Procedures

Avoid breathing fire vapors.

Protective Equipment For Fire-Fighters

Wear full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Wear protective clothing as described in Section 8 of this material safety data sheet.

Environmental Precautions

Avoid discharge into drains, water courses or onto the ground.

Spill Clean Up Methods

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Absorb in vermiculite, dry sand or earth and place into containers.

Reference to other sections

For personal protection, see section 8. For waste disposal, see section 13.

7. HANDLING AND STORAGE

Handling

All handling to take place in well-ventilated area.

Storage

Store in a cool, dark place (0-25°C, 32-77°F). Keep away from heat, sparks and open flame.

Storage Class

Chemical storage.

Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredient Comments

SILICON DIOXIDE : OSHA PEL - TWA (8-hrs) Amorphous, including natural diatomaceous earth: 20 mppcf, 80 mg/m3/%SiO2 NIOSH IDLH: 3, 000 mg/m3

Protective Equipment





Provide adequate general and local exhaust ventilation.

Respiratory Equipment

In case of inadequate ventilation use suitable respirator.

Hand Protection

Wear protective gloves.

Eye Protection

Wear approved safety goggles.

Other Protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene Measures

DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap & water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Color

Odor No information available. Solubility No information available. Initial boiling point and boiling range Not available. Melting point (°C) Not available. **Relative density** 1.1 Vapor density (air=1) Not available. Vapor pressure Not available. Evaporation rate Not available. 7 pH-Value, Conc. Solution pH-Value, Diluted Solution Not available. Viscosity Not available. Decomposition temperature (°C) Not available. Odour Threshold, Lower Not available. Odour Threshold, Upper Not available. Flash point Not available. Auto Ignition Temperature (°C) Not available. Flammability Limit - Lower(%) Not available. Flammability Limit - Upper(%) Not available. Partition Coefficient (N-Octanol/Water) Not available. Explosive properties Not available. Other Flammability Not available. **Oxidising properties** Not available.

10. STABILITY AND REACTIVITY

Reactivity

May polymerise. Stability Stable under normal temperature conditions and recommended use. Hazardous reactions: In contact with acids, alkalis or alcohols, generates hydrogen. Conditions To Avoid Keep away from heat, sparks and open flame. Materials To Avoid Strong oxidizing agents. Acids. Alkalis. Alcohol

Hazardous Decomposition Products

Toxic gases are generated when heated.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

Not available.

Skin Corrosion/Irritation:

Prolonged and frequent contact may cause redness and irritation.

Serious eye damage/irritation:

Irritating and may cause redness and pain.

Respiratory or skin sensitisation:

Respiratory sensitisation Not available. Skin sensitisation Not available.

Germ cell mutagenicity:

Not available.

Carcinogenicity:

Carcinogenicity
Not available.
IARC Carcinogenicity
SILICON DIOXIDE : IARC Group 3 Not classifiable as to its carcinogenicity to humans.
NTP - Carcinogenicity
Not listed.
OSHA - Carcinogenicity
Not listed.

Reproductive Toxicity:

Not available.

Specific target organ toxicity - single exposure: STOT - Single exposure Not available.

Specific target organ toxicity - repeated exposure: STOT - Repeated exposure

Not available.

<u>Aspiration hazard:</u> Viscosity

Not available.

12. ECOLOGICAL INFORMATION

ToxicityNo data available.DegradabilityNo data available.Bioaccumulative potentialNo data available on bioaccumulation.Partition coefficientNot available.Mobility:No information available.Results of PBT and vPvB assessmentThis product does not contain any PBT or vPvB Substances.

Not known.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of waste and residues in accordance with local authority requirements.

14. TRANSPORT INFORMATION		
General	Not regulated.	
UN No. (DOT/TDG)	N/A	
UN No. (IMDG)	N/A	
UN No. (ICAO)	N/A	
DOT Proper Shipping Name	Not applicable.	
DOT Hazard Class		
No classification noted.		
DOT Hazard Label		
No DOT label requirement noted		
IMDG Class	Not applicable.	
ICAO Class	Not applicable.	
Transport Labels		
	No transport warning sign required.	
DOT Pack Group	Not applicable.	
IMDG Pack Group	Not applicable.	
Air Pack Group	Not applicable.	
Environmentally Hazardous Subs	stance/Marine Pollutant	
Special precautions for user	Not available	

Special precautions for user Not available.

Transport in Bulk according to Annex II of MARPOL 73/78 and the IBC Code Notes

Not applicable.

15. REGULATORY INFORMATION

Regulatory Status (US)

This Product is Not Hazardous under the OSHA Hazard Communication Standard.

Regulatory References

29 CFR 1910. 1200(g) Federal Regulations (OSHA Standard).

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities None of the ingredients are listed. CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA) None of the ingredients are listed. SARA Extremely Hazardous Substances EPCRA Reportable Quantities None of the ingredients are listed. SARA 313 Emission Reporting None of the ingredients are listed. CAA Accidental Release Prevention None of the ingredients are listed. SARA (311/312) Hazard Categories None. OSHA Highly Hazardous Chemicals

None of the ingredients are listed.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins None of the ingredients are listed. California Air Toxics "Hot Spots" (A-I) None of the ingredients are listed. California Air Toxics "Hot Spots" (A-II) None of the ingredients are listed. Massachusetts "Right To Know" List The following ingredients are listed. SILICON DIOXIDE Rhode Island "Right To Know" List None of the ingredients are listed. Minnesota "Right To Know" List The following ingredients are listed. SILICON DIOXIDE New Jersey "Right To Know" List None of the ingredients are listed. Pennsylvania "Right To Know" List The following ingredients are listed. SILICON DIOXIDE International Inventories **EU - EINECS/ELINCS** The following ingredients are listed. SILICON DIOXIDE Canada - DSL/NDSL All ingredients are listed or exempt. **US - TSCA** All ingredients are listed or exempt. US - TSCA 12(b) Export Notification

None of the ingredients are listed.

16. OTHER INFORMATION

Revision Date Revision

11/28/2014 2

Disclaimer

The information which is contained in this document is based on available data. However, as such has been obtained from various sources, including independent laboratories, it is given without warranty or representation that is complete, accurate and can be relied upon. Tokuyama Dental Corp. has not attempted to conceal in any way the deleterious aspects of the product listed herein, but makes no warranty as to such.

SAFETY DATA SHEET SOFRELINER TOUGH Primer

1. IDENTIFICATION

ofessionals only.

2. HAZARD(S) IDENTIFICATION

Appearance	Clear liquid	
Color	Colourless	
Odor	Characteristic	
GHS Pictogram		
	^	
		モラノ
Signal Word	Danger	
Hazard Statements	Danger	
Hazaru Statements	H225	Highly flammable liquid and vapour.
	H225 H319	Causes serious eye irritation.
	H336	May cause drowsiness or dizziness.
Precautionary Statements	11550	way cause drowsiness of dizziness.
Trecautionary otatements	P210	Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
	P271	
		Use only outdoors or in a well-ventilated area.
	P280	Wear protective gloves/protective clothing/eye protection/face protection.
	P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
		•

P403+233 P501

P501

Store in a well-ventilated place. Keep container tightly closed. Dispose of contents/container in accordance with local regulations.

Physical and Chemical HazardsFlam. Liq. 2 - H225Human healthEye Irrit. 2 - H319;STOT SE 3 - H336EnvironmentNot classified.

Hazard Not Otherwise Classified (HNOC)

Repeated exposure may cause skin dryness or cracking.

OSHA Regulatory Status

This Product is Hazardous under the OSHA Hazard Communication Standard.

General Information

GHS Classification

May cause irritation to the respiratory system. Vapors may cause drowsiness and dizziness. IF SWALLOWED: Slightly irritating. (DIGESTIVE SYSTEM.) This chemical may cause skin/eye irritation. Product has a defatting effect on skin. Prolonged skin contact may cause redness, irritation and dry skin.

3. COMPOSITION/INFORMATION ON INGREDIENTS

 ETHYL ACETATE
 80-100%

 CAS No.: 141-78-6
 EC No.: 205-500-4

GHS Classification Flam. Lig. 2 - H225; Eye Irrit. 2 - H319; STOT SE 3 - H336

4. FIRST-AID MEASURES

Description of first aid measures

General Information

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

Inhalation

Move the exposed person to fresh air at once.

Ingestion

Immediately rinse mouth and drink plenty of water (200-300 ml). Get medical attention if any discomfort continues.

Skin Contact

Wash the skin immediately with soap and water.

Eye Contact

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Contact physician if irritation persists.

Most important symptoms and effects, both acute and delayed

Inhalation

Irritating to respiratory system. Vapors may cause drowsiness and dizziness.

Ingestion

Slightly irritating. (DIGESTIVE SYSTEM.)

Skin Contact

Slightly irritating. Product has a defatting effect on skin. Prolonged contact may cause redness and irritation.

Eye Contact

Irritating and may cause redness and pain.

Indication of any immediate medical attention and special treatment needed

Notes To The Physician

CAUTION! First aid personnel must be aware of own risk during rescue! Wear suitable protective clothing.

5. FIRE-FIGHTING MEASURES

Auto Ignition Temperature (°C)	427°C
Flammability Limit - Lower(%)	2
Flammability Limit - Upper(%)	11.5

Flash point (°C) Extinguishing Media

Fire can be extinguished using: Foam. Carbon dioxide or dry powder.

-4°C

Specific Hazards

When heated and in case of fire, irritating vapors/gases may be formed.

Special Fire Fighting Procedures

Avoid breathing fire vapors.

Protective Equipment For Fire-Fighters

Wear full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Wear protective clothing as described in Section 8 of this material safety data sheet.

Environmental Precautions

Do not allow to enter drains, sewers or watercourses.

Spill Clean Up Methods

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Absorb in vermiculite, dry sand or earth and place into containers. Do not contaminate water sources or sewer.

Reference to other sections

For personal protection, see section 8.

7. HANDLING AND STORAGE

Handling

All handling to take place in well-ventilated area.

Storage

Store in a cool, dark place (0-25°C, 32-77°F). Keep away from heat, direct sunlight, sparks and open flames.

Storage Class

Flammable liquid storage.

Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

COMPONENT	STD	TWA	(8-hrs)	STEL	(15 min)	Notes
ETHYL ACETATE	ACGIH	400 ppm				
ETHYL ACETATE	PEL	400 ppm	1400 mg/m3			
COMPONENT						DLH
ETHYL ACETATE						2000 ppm

ACGIH=American Conference of Governmental Industrial Hygienists.

Protective Equipment





Engineering Measures Provide adequate general and local exhaust ventilation. Respiratory Equipment In case of inadequate ventilation use suitable respirator. Hand Protection Wear protective gloves.

Eye Protection

Wear approved safety goggles.

Other Protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene Measures

DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap & water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear liquid.
Color	Colourless.
Odor	Characteristic.
Solubility	No information available.
Initial boiling point and boiling range	77°C
Melting point (°C)	
Not available.	
Relative density	
Not available.	
Vapor density (air=1)	
Not available.	
Vapor pressure	
Not available.	
Evaporation rate	
Not available.	
pH-Value, Conc. Solution	
Not available.	
pH-Value, Diluted Solution	
Not available.	
Viscosity	
Not available.	
Decomposition temperature (°C)	
Not available.	
Odour Threshold, Lower	
Not available.	
Odour Threshold, Upper	
Not available.	
Flash point	-4°C
Auto Ignition Temperature (°C)	427°C
Flammability Limit - Lower(%)	2
Flammability Limit - Upper(%)	11.5
Partition Coefficient	
(N-Octanol/Water)	
Not available.	
Explosive properties	
Not available.	
Other Flammability	
Not available.	
Oxidising properties	
Not available.	

10. STABILITY AND REACTIVITY

Reactivity No information available. Stability HIGHLY FLAMMABLE! Hazardous reactions: Not available.

Conditions To Avoid

Keep away from heat, sparks and open flame. Protect against direct sunlight.

Materials To Avoid Strong oxidizing agents.

Strong oxidizing agents.

Hazardous Decomposition Products Toxic gases are generated when heated.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

Not available.

Skin Corrosion/Irritation:

Slightly irritating. Product has a defatting effect on skin. Prolonged skin contact may cause redness and irritation.

Serious eye damage/irritation:

Irritating and may cause redness and pain.

Respiratory or skin sensitisation:

Respiratory sensitisation Not available. Skin sensitisation Not available.

Germ cell mutagenicity:

Not available.

<u>Carcinogenicity:</u> Not established : IARC, NTP, EU, OSHA, ACGIH

Reproductive Toxicity:

Not available.

Specific target organ toxicity - single exposure:

Irritating to respiratory system. Vapors may cause drowsiness and dizziness.

<u>Specific target organ toxicity - repeated exposure:</u> STOT - Repeated exposure

Not available.

Aspiration hazard: Viscosity

Not available.

12. ECOLOGICAL INFORMATION

Ecotoxicity
No data on possible environmental effects have been found.
Toxicity
No data available.
Degradability
No data available.
Bioaccumulative potential
No data available on bioaccumulation.
Partition coefficient
Not available.
Mobility:
No information available.

Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB Substances. **Other adverse effects**

Not known.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of waste and residues in accordance with local authority requirements.

14. TRANSPORT INFORMATION			
UN No. (DOT/TDG)	1133		
UN No. (IMDG)	1133		
UN No. (ICAO)	1133		
DOT Proper Shipping Name	ADHESIVES, CONTAINING A FLAMMABLE LIQUID		
TDG Proper Shipping Name	ADHESIVES, CONTAINING A FLAMMABLE LIQUID		
DOT Hazard Class	3		
DOT Hazard Label	Flammable Liquid		
TDG Class	3		
TDG Label(s)	3		
IMDG Class	3		
ICAO Class	3		

Transport Labels



DOT Pack Group	II			
IMDG Pack Group	II			
Air Pack Group	II			
Environmentally Hazardous Substance/Marine Pollutant				

Special precautions for user Not applicable.

Transport in Bulk according to Annex II of MARPOL 73/78 and the IBC Code Notes

F-E, S-D

Not applicable.

EMS

15. REGULATORY INFORMATION

Regulatory Status (US)

This Product is Hazardous under the OSHA Hazard Communication Standard.

Regulatory References

29 CFR 1910. 1200(g) Federal Regulations (OSHA Standard).

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities None of the ingredients are listed.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

All ingredients are listed. ETHYL ACETATE; 5, 000 lbs (2270 Kg) SARA Extremely Hazardous Substances EPCRA Reportable Quantities None of the ingredients are listed. SARA 313 Emission Reporting None of the ingredients are listed. CAA Accidental Release Prevention None of the ingredients are listed. SARA (311/312) Hazard Categories Fire Acute OSHA Highly Hazardous Chemicals None of the ingredients are listed.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins

None of the ingredients are listed. **California Air Toxics "Hot Spots" (A-I)** None of the ingredients are listed. **California Air Toxics "Hot Spots" (A-II)** None of the ingredients are listed. **Massachusetts "Right To Know" List** All ingredients are listed. **Rhode Island "Right To Know" List** All ingredients are listed. **Minnesota "Right To Know" List** All ingredients are listed. **New Jersey "Right To Know" List** All ingredients are listed. **New Jersey "Right To Know" List** All ingredients are listed. **Pennsylvania "Right To Know" List** All ingredients are listed. **Pennsylvania "Right To Know" List** All ingredients are listed.

International Inventories

EU - EINECS/ELINCS All ingredients are listed or exempt. Canada – DSL/NDSL All ingredients are listed or exempt. US - TSCA All ingredients are listed or exempt. US – TSCA 12(b) Export Notification None of the ingredients are listed.

16. OTHER INFORMATION

Revision Comments Revision Date Revision

03/17/2015 1

Disclaimer

The information which is contained in this document is based on available data. However, as such has been obtained from various sources, including independent laboratories, it is given without warranty or representation that is complete, accurate and can be relied upon. Tokuyama Dental Corp. has not attempted to conceal in any way the deleterious aspects of the product listed herein, but makes no warranty as to such.