

SAFETY DATA SHEETS

This SDS packet was issued with item:

071439538

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

071437086 071440510 071441005 071441971

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

071435148 071435155 071435163 071436534 071436567 071436591 071439041 273019998

MATERIAL SAFETY DATA SHEET

HARRY J. BOSWORTH COMPANY
7227 North Hamlin Avenue
Skokie, Illinois 60076-3999
Information Phone: 847.679.3400
Emergency Phone: 800.535.5053

N F P A	HAZARD RATING	
	4 - EXTREME	Fire
	3 - HIGH	Health
	2 - MODERATE	Reactivity
	1 - SLIGHT	Special
	0 - INSIGNIFICANT	

PRODUCT: Trusoft™ Liquid

DATE PREPARED: 1/17/12

HAZARDOUS COMPONENTS	
INGREDIENTS 1. Ethyl Alcohol 2. Benzyl Butyl Phthalate	PERCENTAGE 1. < 25% 2. > 50%
COMMON NAMES AND SYNONYMS 1. Alcohol 2. Butyl Benzyl Phthalate	CAS NUMBER 1. 64-17-5 2. 85-68-7
PEL 1. 1000 ppm 2. 5 mg/m ³	UN NUMBER 1. 1170 2. 3082
TLV 1. 1000 ppm 2. 5 mg/m ³	

PHYSICAL/CHEMICAL CHARACTERISTICS	
BOILING POINT/FLASH POINT 525°F (274°C)	MELTING POINT N/D
SPECIFIC GRAVITY (Water = 1) 1.00 @ 20°C	VAPOR DENSITY (Air = 1) 1.59
VAPOR PRESSURE 44.6	EVAPORATION RATE (Butyl Acetate = 1) N/D
APPEARANCE/ODOR Clear liquid with characteristic color.	SOLUBILITY IN WATER Slightly soluble

REACTIVITY DATA
STABILITY Stable at room temperature.
CONDITIONS TO AVOID Heat and light.
HAZARDOUS DECOMPOSITION PRODUCTS Oxides of carbon.
HAZARDOUS POLYMERIZATION Does not occur.
CONDITIONS TO AVOID Oxidizing and reducing agents.

FIRE AND EXPLOSION HAZARD DATA	
FLASH POINT 125°F (52°C)	LIMITS LEL 3.3 UEL 19
EXTINGUISHING MEDIA Water spray, foam and dry chemicals.	
SPECIAL FIREFIGHTING PROCEDURES Should wear full protective clothing including self-contained breathing apparatus.	
UNUSUAL FIRE AND EXPLOSION HAZARDS None	

HEALTH HAZARD DATA	
CARCINOGENICITY None known.	NTP None known.
IARC None known.	OSHA REGULATED None known.

EMERGENCY & FIRST AID PROCEDURES
TREATMENT FOR EYE CONTACT Flush eyes with water.
TREATMENT FOR SKIN CONTACT Wash with water.
TREATMENT FOR INHALATION (BREATHING) Remove to fresh air.
TREATMENT FOR INGESTION (SWALLOWING) Drink water or milk.

EFFECTS & HAZARDS OF OVEREXPOSURE (ACUTE & CHRONIC)
EFFECTS & HAZARDS OF EYE CONTACT Slightly irritating.
EFFECTS & HAZARDS OF SKIN CONTACT Slightly toxic or irritating.
EFFECTS & HAZARDS OF INHALATION (BREATHING) Slightly toxic.
EFFECTS & HAZARDS OF INGESTION (SWALLOWING) Slightly toxic.
OTHER REGULATORY INFORMATION California Proposition 65 Warning: This product may contain a chemical known to the state of California to cause cancer and/or reproductive toxicity.

PRECAUTIONS FOR SAFE HANDLING & USE
STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED Absorb with inert material and place in secure container.
WASTE DISPOSAL METHOD Dispose of in accordance with local, state, and federal laws.
PRECAUTIONS TO BE TAKEN IN HANDLING Store in a cool, dry place. Avoid heat and light.
OTHER PRECAUTIONS Handle in accordance with good industrial hygiene and safety practices.

CONTROL MEASURES
RESPIRATORY PROTECTION Avoid breathing vapor/mist. If needed, use NIOSH/MSHA approved respiratory protection equipment.
VENTILATION LOCAL EXHAUST VENTILATION If needed.
SPECIAL VENTILATION If needed.
MECHANICAL (GENERAL) VENTILATION If needed.
OTHER VENTILATION Open windows if needed.
PROTECTION GLOVES Wear gloves if needed.
EYE PROTECTION Wear goggles if needed.
OTHER PROTECTIVE EQUIPMENT Wear protective mask and organic mist mask if needed.
WORK & HYGIENIC PRACTICES Wash hands before eating and smoking and after use.

ADDITIONAL INFORMATION	
This MSDS was prepared in accordance with the requirements of the OSHA Hazard Communication Standard (29CFR 1910.1200) and is to be used only for this product. The information contained in this sheet is, to the best of our knowledge, believed to be accurate.	
HEALTH HAZARD INDEX	RATINGS
SEVERE HAZARD	1
SERIOUS HAZARD	2
MODERATE HAZARD	3
SLIGHT HAZARD	4
MINIMUM HAZARD	5
SHIPPING INFORMATION	
REGULATED IATA N/A	
PROPER SHIPPING NAME Ethyl Alcohol	
HAZARD CLASS 3	
IDENTIFICATION NUMBER UN 1170	
PACKAGING GROUP III	
LABEL Flammable liquid.	

To the best of our knowledge, the information contained herein is accurate. However, the Harry J. Bosworth Company does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



SAFETY DATA SHEET

NAME OF PRODUCT: TRUSOFT™ Powder

FILE NO.: SDS251

SDS DATE: 06/19/2014

SECTION 1: IDENTIFICATION

PRODUCT NAME: TRUSOFT Powder
PRODUCT CODES: 0921250, 0921251, 0921253, 0921254
IDENTIFIED USES: Dentistry
USES ADVISED AGAINST: Non-dental use
MANUFACTURER: Harry J. Bosworth Company
ADDRESS: 7227 North Hamlin Avenue, Skokie, Illinois 60076-3999, USA
TELEPHONE: 847-679-3400
FAX: 847-679-2080
EMAIL: hjbinfo@bosworth.com
EMERGENCY PHONE: 800-535-5053 (US and Canada)
352-323-3500 (International)

SECTION 2: HAZARDS IDENTIFICATION

CLASSIFICATION: Acute toxicity, Oral (Category 5)
Acute toxicity, Dermal (Category 5)
Eye irritation (Category 2B)
Acute toxicity, Inhalation (Category 5)
Specific target organ toxicity - single exposure (Category 3), Respiratory system
Germ cell mutagenicity (Category 2)
Carcinogenicity (Category 2)
Reproductive toxicity (Category 2)
Specific target organ toxicity - repeated exposure (Category 2)
Chronic aquatic toxicity (Category 4)
LABELING: FDA regulated device - exempt from Regulation (US) 29 CFR 1910.1200.

PICTOGRAM:



SIGNAL WORD: Warning

HAZARD STATEMENTS:

H303 May be harmful if swallowed.
H313 May be harmful in contact with skin.
H320 Causes eye irritation.
H333 May be harmful if inhaled.
H335 May cause respiratory irritation.
H341 Suspected of causing genetic defects.
H351 Suspected of causing cancer.
H361 Suspected of damaging fertility or the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.
H413 May cause long lasting harmful effects to aquatic life.

PRECAUTIONARY STATEMENTS:

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P234 Keep only in original container.
P235+P410 Keep cool. Protect from sunlight.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301+P330 IF SWALLOWED: Rinse mouth.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
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.
P321 Specific treatment (see supplemental first aid instructions on this label).
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.



SAFETY DATA SHEET

NAME OF PRODUCT: TRUSOFT™ Powder

FILE NO.: SDS251

SDS DATE: 06/19/2014

P362	Take off contaminated clothing and wash before reuse.
P391	Collect spillage.
P402	Store in a dry place.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container to an approved waste disposal plant.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	CAS NO.	%WT	OSHA PEL - TWA	ACGIH TLV - TWA	CLASSIFICATION
Poly(ethyl methacrylate)	9003-42-3	60-100	15 mg/m ³ (T); 5 mg/m ³ (R)	10 mg/m ³ (T); 3 mg/m ³ (R)	N/A
Cadmium Pigments	7440-43-9	0.5-1.5	0.005 mg/m ³ (as Cd)	0.01 mg/m ³ (T); 0.002 mg/m ³ (R) (as Cd)	Acute Tox. 3; Acute Tox. 4; Acute Tox. 2; Muta. 2; Carc. 1B; Repr. 2; STOT RE 1; Aquatic Acute 1; Aquatic Chronic 1; H301, H312, H330, H341, H350, H361, H372, H410
Titanium Dioxide	13463-67-7	0.5-1.5	15 mg/m ³ (T)	10 mg/m ³	Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; H315, H319, H332, H335

For full text of H-statements mentioned in this section, see section 16.

SECTION 4: FIRST-AID MEASURES

INHALATION:	Move person into fresh air. If not breathing, give artificial respiration. If symptoms persist, get medical attention.
SKIN:	Wash off with soap and plenty of water. Get medical attention if irritation develops and persists.
EYE:	Flush eyes with water for 15 minutes as a precaution. Get medical attention if irritation develops and persists.
INGESTION:	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

SECTION 5: FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

HAZARDOUS DECOMPOSITION PRODUCTS: Methacrylate monomers and oxides of carbon.

SPECIAL HAZARDS: Polymer dust is combustible. The explosive limits of the polymer particles suspended in air are approximately those of coal dust.

ADVICE FOR FIREFIGHTERS: Avoid extinguishing methods which may generate dust clouds. Water stream can disperse dust into air, producing a fire hazard and possible explosion hazard if exposed to ignition source. Wear self contained breathing apparatus for firefighting if necessary.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

ENVIRONMENTAL PRECAUTIONS: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

CONTAINMENT AND CLEANUP: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Product is intended for dental use only. Handling of this product should be by trained dental healthcare professionals only. Observe normal care for working with chemicals. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid inhalation of dust. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from foodstuffs, beverages and animal feed.

CONDITIONS FOR SAFE STORAGE: Store only in the original package. Keep container tightly closed in a dry and well-ventilated place. Protect from heat and direct sunlight. Store away from food and beverages.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Handle in accordance with good industrial hygiene and safety practice. Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits. Local exhaust



SAFETY DATA SHEET

NAME OF PRODUCT: TRUSOFT™ Powder

FILE NO.: SDS251

SDS DATE: 06/19/2014

EYE/FACE PROTECTION:

SKIN PROTECTION:

BODY PROTECTION:

RESPIRATORY PROTECTION:

ENVIRONMENTAL EXPOSURE:

ventilation is preferred since it prevents contamination dispersion into the work area by controlling it at its source. Provide eyewash and safety shower if contact or splash hazard exists. Wash hands before breaks and at the end of work.

Safety glasses.

Glove material impermeable and resistant to the product.

Protective work clothing.

NIOSH (US) or CEN (EU) approved respirators and components.

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/COLOR:

Fine pink powder

ODOR:

Faint odor in bulk

FLASH POINT:

579°F (304°C)

RELATIVE DENSITY (H₂O=1.0):

1.25 g/cm³

WATER SOLUBILITY:

Insoluble

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY:

Stable under recommended storage conditions.

HAZARDOUS REACTIONS:

No further relevant information available.

CONDITIONS TO AVOID:

Temperatures above 464°F (240°C).

INCOMPATIBLE MATERIALS:

Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Methacrylate monomers and oxides of carbon.

SECTION 11: TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS:

EYES: May cause eye irritation.

SKIN: May be harmful if absorbed through skin. May cause skin irritation.

INGESTION: May be harmful if swallowed.

INHALATION: May be harmful if inhaled. May cause respiratory tract irritation.

CARCINOGENICITY:

OSHA: Cadmium is a regulated carcinogen by OSHA.

ACGIH: Cadmium is identified as a suspected human carcinogen by ACGIH.

NTP: Cadmium is identified as a known human carcinogen by NTP.

IARC: Cadmium is identified as a human carcinogen by IARC. Titanium dioxide is identified as a possible human carcinogen by IARC.

REPRODUCTIVE TOXICITY:

Cadmium is a suspected human reproductive toxicant. Overexposure may cause reproductive disorders based on tests with laboratory animals.

SECTION 12: ECOLOGICAL INFORMATION

ADVERSE EFFECTS:

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. May cause long lasting harmful effects to aquatic life. Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

PRODUCT:

Offer surplus and non-recyclable solutions to a licensed disposal company. Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Disposal must be made according to official regulations.

CONTAMINATED PACKAGING:

Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

UN NUMBER:

N/A

PROPER SHIPPING NAME:

N/A

HAZARD CLASS:

N/A

PACKING GROUP:

N/A

LABEL STATEMENT:

N/A



SAFETY DATA SHEET

NAME OF PRODUCT: TRUSOFT™ Powder

SECTION 15: REGULATORY INFORMATION

FILE NO.: SDS251

SDS DATE: 06/19/2014

US FEDERAL REGULATIONS

TSCA:	This product is an FDA regulated device and not subject to TSCA regulations.
CERCLA:	This product is an FDA regulated device and not subject to reporting requirements. There may be specific reporting requirements at the local, regional, or state level.
SARA 313 TOXIC CHEMICALS:	The following components are subject to reporting levels established by SARA Title III, Section 313 (40 CFR 372): <i>Cadmium, CAS NO. 7440-43-9.</i>
SARA 311/312 HAZARDS:	This product is an FDA regulated device and not subject to reporting requirements.

US STATE REGULATIONS

CALIFORNIA PROPOSITION 65:	This product may contain a chemical known to the State of California to cause cancer and/or reproductive toxicity.
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INTERNATIONAL REGULATIONS

CANADIAN ENVIRONMENTAL PROTECTION ACT:	This product is a medical device and not subject to chemical notification requirements.
EUROPEAN INVENTORY OF EXISTING COMMERCIAL CHEMICAL SUBSTANCES (EINECS):	This product is a medical device and not subject to chemical notification requirements.

SECTION 16: OTHER INFORMATION

FULL TEXT OF H STATEMENTS REFERRED TO UNDER SECTION 3

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
Eye Irrit.	Eye irritation
H301	Toxic if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H361	Suspected of damaging fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.
Muta.	Germ cell mutagenicity
Repr.	Reproductive toxicity
Skin Irrit.	Skin irritation
STOT RE	Specific target organ toxicity – repeated exposure
STOT SE	Specific target organ toxicity – single exposure

NFPA RATING

Health Hazard	1
Fire Hazard	1
Reactivity Hazard	0

PREPARATION INFORMATION: This SDS was prepared in accordance with the requirements of the OSHA Hazard Communication Standard (29 CFR 1910.1200) and is to be used only for this product.

DISCLAIMER: To the best of our knowledge, the information contained herein is accurate. However, The Harry J. Bosworth Company does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown health hazards and should be used with caution. Although certain hazards are described

PREPARED BY: SS

PAGE 4 OF 4



SAFETY DATA SHEET

NAME OF PRODUCT: TRUSOFT™ Powder

herein, we cannot guarantee that these are the only hazards that exist.

FILE NO.: SDS251

SDS DATE: 06/19/2014



SAFETY DATA SHEET

NAME OF PRODUCT: BONDING Liquid

FILE NO.: SDS983

SDS DATE: 06/19/2014

SECTION 1: IDENTIFICATION

PRODUCT NAME: BONDING Liquid
PRODUCT CODES: 0921983, 0921984, 0921788, 0921789
IDENTIFIED USES: Dentistry
USES ADVISED AGAINST: Non-dental use
MANUFACTURER: Harry J. Bosworth Company
ADDRESS: 7227 North Hamlin Avenue, Skokie, Illinois 60076-3999, USA
TELEPHONE: 847-679-3400
FAX: 847-679-2080
EMAIL: hjbinfo@bosworth.com
EMERGENCY PHONE: 800-535-5053 (US and Canada)
352-323-3500 (International)

SECTION 2: HAZARDS IDENTIFICATION

CLASSIFICATION: Flammable liquids (Category 2)
Skin irritation (Category 2)
Skin sensitization (Category 1)
Specific target organ toxicity - single exposure (Category 3), Respiratory system
LABELING: FDA regulated device - exempt from Regulation (US) 29 CFR 1910.1200.

PICTOGRAM:



SIGNAL WORD: Danger

HAZARD STATEMENTS:

H225 Highly flammable liquid and vapor.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

PRECAUTIONARY STATEMENTS:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P234 Keep only in original container.

P235+P410 Keep cool. Protect from sunlight.

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.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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.

P321 Specific treatment (see supplemental first aid instructions on this label).

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P362 Take off contaminated clothing and wash before reuse.

P370+P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide for extinction.

P391 Collect spillage.

P402 Store in a dry place.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

PREPARED BY: SS

PAGE 1 OF 4



SAFETY DATA SHEET

NAME OF PRODUCT: BONDING Liquid
P501

FILE NO.: SDS983

SDS DATE: 06/19/2014

Dispose of contents/container to an approved waste disposal plant.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	CAS NO.	%WT	OSHA PEL - TWA	ACGIH TLV - TWA	CLASSIFICATION
Methyl methacrylate	80-62-6	60-100	100 ppm	50 ppm	Flam. Liq. 2; Skin Irrit. 2; Skin Sens. 1; STOT SE 3; H225, H315, H317, H335

For full text of H-statements mentioned in this section, see section 16.

SECTION 4: FIRST-AID MEASURES

INHALATION: Move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
SKIN: Wash off with soap and plenty of water. Consult a physician.
EYE: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
INGESTION: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

SECTION 5: FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon.
SPECIAL HAZARDS: Sealed containers exposed to elevated temperatures may rupture explosively due to polymerization. Vapors are heavier than air and may travel to ignition source. Vapors are uninhibited and may form polymers in vents or flame arrestors resulting in stoppage of vents.
ADVICE FOR FIREFIGHTERS: Fight fires from safe distance or protected areas. Cool containers of material exposed to heat with cold water spray. Wear self contained breathing apparatus for firefighting if necessary.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
ENVIRONMENTAL PRECAUTIONS: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
CONTAINMENT AND CLEANUP: Soak up with inert absorbent material and collect with an electrically protected vacuum cleaner or by wet-brushing. Place in suitable, closed container for disposal according to official regulations.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Product is intended for dental use only. Handling of this product should be by trained dental healthcare professionals only. Observe normal care for working with chemicals. Avoid contact with the eyes and skin. Avoid inhalation of vapor or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the buildup of electrostatic charge. Keep away from foodstuffs, beverages and animal feed.
CONDITIONS FOR SAFE STORAGE: Store only in the original package. Keep container tightly sealed in a dry and well-ventilated place. Protect from heat and direct sunlight. Store away from food and beverages.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Handle in accordance with good industrial hygiene and safety practice. Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits. Local exhaust ventilation is preferred since it prevents contamination dispersion into the work area by controlling it at its source. Provide eyewash and safety shower if contact or splash hazard exists. Wash hands before breaks and at the end of work.
EYE/FACE PROTECTION: Safety glasses.
SKIN PROTECTION: Glove material impermeable and resistant to the product.
BODY PROTECTION: Protective work clothing.
RESPIRATORY PROTECTION: NIOSH (US) or CEN (EU) approved respirators and components.
ENVIRONMENTAL EXPOSURE: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.



SAFETY DATA SHEET

NAME OF PRODUCT: BONDING Liquid

FILE NO.: SDS983

SDS DATE: 06/19/2014

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/COLOR:	Clear, colorless liquid
ODOR:	Acrid
BOILING POINT:	216°F (102°C)
FLASH POINT:	50°F (10°C)
EVAPORATION RATE (BuAc = 1.0):	3
UPPER FLAMMABILITY LIMIT:	12.5
LOWER FLAMMABILITY LIMIT:	2.1
VAPOR PRESSURE:	29 mmHg
VAPOR DENSITY (AIR=1.0):	3.5
RELATIVE DENSITY (H ₂ O=1.0):	0.95 g/cm ³
WATER SOLUBILITY:	1.5 wt%

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY:	Stable under recommended storage conditions. Polymerizes with evolution of heat. Avoid contact with incompatible materials. Unless inhibited, product can polymerize, raising temperature and pressure, possibly rupturing container. Check inhibitor content often adding to bulk liquid if needed. Do not blanket or mix with oxygen-free gas as it renders inhibitor ineffective.
HAZARDOUS REACTIONS:	Vapors may form explosive mixture with air. Polymerizes readily unless inhibited.
CONDITIONS TO AVOID:	Heat, flames, sparks, aging, contamination and absence of an oxygen containing atmosphere above the product. May polymerize upon exposure to light. Extremes of temperature and direct sunlight.
INCOMPATIBLE MATERIALS:	Oxidizing agents, peroxides, amines, bases, acids, reducing agents, halogens. Material has strong solvent properties and can soften paint and rubber.
HAZARDOUS DECOMPOSITION PRODUCTS:	Oxides of carbon.

SECTION 11: TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS:	EYES: May cause eye irritation with redness, tearing and stinging. SKIN: May cause skin irritation with redness, swelling and itching. Repeated or prolonged contact may cause drying, defatting of the skin and dermatitis. INGESTION: May cause mucous membrane and gastrointestinal irritation with nausea, vomiting and diarrhea. May cause nervous system depression with symptoms of headache, dizziness, nausea, vomiting, weakness, fatigue, confusion, and unconsciousness. INHALATION: May cause mucous membrane and respiratory irritation and central nervous system depression with symptoms of headache, dizziness, drowsiness, nausea, vomiting, and unconsciousness. High vapor concentrations may cause burning sensation of the nose and throat and watering of the eyes.
SKIN SENSITIZATION:	May cause allergic skin reaction.
CARCINOGENICITY:	OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or possible carcinogen by OSHA. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. IARC: Methyl methacrylate is identified as not classifiable as to its carcinogenicity to humans by IARC.

SECTION 12: ECOLOGICAL INFORMATION

ADVERSE EFFECTS:	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
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SECTION 13: DISPOSAL CONSIDERATIONS

PRODUCT:	Contact a licensed professional waste disposal service to dispose of this material. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Disposal must be made according to official regulations.
CONTAMINATED PACKAGING:	Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

PREPARED BY: SS

PAGE 3 OF 4



SAFETY DATA SHEET

NAME OF PRODUCT: BONDING Liquid

FILE NO.: SDS983

SDS DATE: 06/19/2014

UN NUMBER: UN1247
PROPER SHIPPING NAME: Methyl methacrylate monomer, stabilized
HAZARD CLASS: 3
PACKING GROUP: II
LABEL STATEMENT: Flammable Liquid

SECTION 15: REGULATORY INFORMATION

US FEDERAL REGULATIONS

TSCA: This product is an FDA regulated device and not subject to TSCA regulations.
CERCLA: This product is an FDA regulated device and not subject to reporting requirements. There may be specific reporting requirements at the local, regional, or state level.
SARA 313 TOXIC CHEMICALS: The following components are subject to reporting levels established by SARA Title III, Section 313 (40 CFR 372): *Methyl Methacrylate, CAS NO. 80-62-6*.
SARA 311/312 HAZARDS: This product is an FDA regulated device and not subject to reporting requirements.

INTERNATIONAL REGULATIONS

CANADIAN ENVIRONMENTAL PROTECTION ACT: This product is a medical device and not subject to chemical notification requirements.
EUROPEAN INVENTORY OF EXISTING COMMERCIAL CHEMICAL SUBSTANCES (EINECS): This product is a medical device and not subject to chemical notification requirements.

SECTION 16: OTHER INFORMATION

FULL TEXT OF H STATEMENTS REFERRED TO UNDER SECTION 3

Flam. Liq. Flammable liquids
H225 Highly flammable liquid and vapor.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
Skin Irrit. Skin irritation
Skin Sens. Skin sensitization
STOT SE Specific target organ toxicity – single exposure

NFPA RATING

Health Hazard 2
Fire Hazard 3
Reactivity Hazard 2

PREPARATION INFORMATION: This SDS was prepared in accordance with the requirements of the OSHA Hazard Communication Standard (29 CFR 1910.1200) and is to be used only for this product.

DISCLAIMER: To the best of our knowledge, the information contained herein is accurate. However, The Harry J. Bosworth Company does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.