

## **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).**

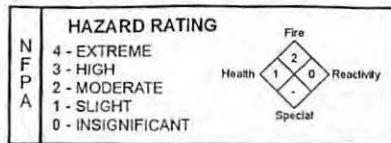
071437086 071440510 071441005 071441971

**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



## PRODUCT: Trusoft™ Liquid

DATE PREPARED: 1/17/12

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

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

| REACTIVITY DATA  |
|--|
| <b>STABILITY</b><br>Stable at room temperature.              |
| <b>CONDITIONS TO AVOID</b><br>Heat and light.                |
| <b>HAZARDOUS DECOMPOSITION PRODUCTS</b><br>Oxides of carbon. |
| <b>HAZARDOUS POLYMERIZATION</b><br>Does not occur.           |
| <b>CONDITIONS TO AVOID</b><br>Oxidizing and reducing agents. |

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

| HEALTH HAZARD DATA                    |                                      |
|---------------------------------------|--------------------------------------|
| <b>CARCINOGENICITY</b><br>None known. | <b>NTP</b><br>None known.            |
| <b>IARC</b><br>None known.            | <b>OSHA REGULATED</b><br>None known. |

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

| EFFECTS & HAZARDS OF OVEREXPOSURE<br>(ACUTE & CHRONIC)   |
|--|
| <b>EFFECTS &amp; HAZARDS OF EYE CONTACT</b><br>Slightly irritating.  |
| <b>EFFECTS &amp; HAZARDS OF SKIN CONTACT</b><br>Slightly toxic or irritating.  |
| <b>EFFECTS &amp; HAZARDS OF INHALATION (BREATHING)</b><br>Slightly toxic.  |
| <b>EFFECTS &amp; HAZARDS OF INGESTION (SWALLOWING)</b><br>Slightly toxic.  |
| <b>OTHER REGULATORY INFORMATION</b><br>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  |
|--|
| <b>STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED</b><br>Absorb with inert material and place in secure container. |
| <b>WASTE DISPOSAL METHOD</b><br>Dispose of in accordance with local, state, and federal laws.                            |
| <b>PRECAUTIONS TO BE TAKEN IN HANDLING</b><br>Store in a cool, dry place. Avoid heat and light.                          |
| <b>OTHER PRECAUTIONS</b><br>Handle in accordance with good industrial hygiene and safety practices.                      |

| CONTROL MEASURES  |
|---|
| <b>RESPIRATORY PROTECTION</b><br>Avoid breathing vapor/mist. If needed, use NIOSH/MSHA approved respiratory protection equipment. |
| <b>VENTILATION</b><br><b>LOCAL EXHAUST VENTILATION</b><br>If needed.  |
| <b>SPECIAL VENTILATION</b><br>If needed.  |
| <b>MECHANICAL (GENERAL) VENTILATION</b><br>If needed.   |
| <b>OTHER VENTILATION</b><br>Open windows if needed.   |
| <b>PROTECTION GLOVES</b><br>Wear gloves if needed.  |
| <b>EYE PROTECTION</b><br>Wear goggles if needed.  |
| <b>OTHER PROTECTIVE EQUIPMENT</b><br>Wear protective mask and organic mist mask if needed.  |
| <b>WORK &amp; HYGIENIC PRACTICES</b><br>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. |                |
| <b>HEALTH HAZARD INDEX</b>   | <b>RATINGS</b> |
| SEVERE HAZARD  | 1              |
| SERIOUS HAZARD   | 2              |
| MODERATE HAZARD  | 3              |
| SLIGHT HAZARD  | 4              |
| MINIMUM HAZARD   | 5              |
| <b>SHIPPING INFORMATION</b>  |                |
| <b>REGULATED IATA</b><br>N/A   |                |
| <b>PROPER SHIPPING NAME</b><br>Ethyl Alcohol   |                |
| <b>HAZARD CLASS</b><br>3   |                |
| <b>IDENTIFICATION NUMBER</b><br>UN 1170  |                |
| <b>PACKAGING GROUP</b><br>III  |                |
| <b>LABEL</b><br>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.  |
| <b>PRECAUTIONARY STATEMENTS:</b> |  |
| 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

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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 <sup>3</sup> (T); 5 mg/m <sup>3</sup> (R) | 10 mg/m <sup>3</sup> (T); 3 mg/m <sup>3</sup> (R)               | N/A   |
| Cadmium Pigments         | 7440-43-9  | 0.5-1.5 | 0.005 mg/m <sup>3</sup> (as Cd)                   | 0.01 mg/m <sup>3</sup> (T); 0.002 mg/m <sup>3</sup> (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 <sup>3</sup> (T)                          | 10 mg/m <sup>3</sup>  | 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

FILE NO.: SDS251

NAME OF PRODUCT: TRUSOFT™ Powder

SDS DATE: 06/19/2014

|                                |  |
|--------------------------------|--|
| <b>EYE/FACE PROTECTION:</b>    | 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. |
| <b>SKIN PROTECTION:</b>        | Safety glasses.  |
| <b>BODY PROTECTION:</b>        | Glove material impermeable and resistant to the product.   |
| <b>RESPIRATORY PROTECTION:</b> | Protective work clothing.  |
| <b>ENVIRONMENTAL EXPOSURE:</b> | 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.   |

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### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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|   |                        |
|---|------------------------|
| <b>APPEARANCE/COLOR:</b>                      | Fine pink powder       |
| <b>ODOR:</b>                                  | Faint odor in bulk     |
| <b>FLASH POINT:</b>                           | 579°F (304°C)          |
| <b>RELATIVE DENSITY (H<sub>2</sub>O=1.0):</b> | 1.25 g/cm <sup>3</sup> |
| <b>WATER SOLUBILITY:</b>                      | Insoluble              |

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### SECTION 10: STABILITY AND REACTIVITY

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|  |  |
|--|--|
| <b>CHEMICAL STABILITY:</b>               | Stable under recommended storage conditions. |
| <b>HAZARDOUS REACTIONS:</b>              | No further relevant information available.   |
| <b>CONDITIONS TO AVOID:</b>              | Temperatures above 464°F (240°C).            |
| <b>INCOMPATIBLE MATERIALS:</b>           | Strong oxidizing agents.                     |
| <b>HAZARDOUS DECOMPOSITION PRODUCTS:</b> | Methacrylate monomers and oxides of carbon.  |

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### SECTION 11: TOXICOLOGICAL INFORMATION

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|                                  |   |
|----------------------------------|---|
| <b>POTENTIAL HEALTH EFFECTS:</b> | <b>EYES:</b> May cause eye irritation.<br><b>SKIN:</b> May be harmful if absorbed through skin. May cause skin irritation.<br><b>INGESTION:</b> May be harmful if swallowed.<br><b>INHALATION:</b> May be harmful if inhaled. May cause respiratory tract irritation.   |
| <b>CARCINOGENICITY:</b>          | <b>OSHA:</b> Cadmium is a regulated carcinogen by OSHA.<br><b>ACGIH:</b> Cadmium is identified as a suspected human carcinogen by ACGIH.<br><b>NTP:</b> Cadmium is identified as a known human carcinogen by NTP.<br><b>IARC:</b> Cadmium is identified as a human carcinogen by IARC. Titanium dioxide is identified as a possible human carcinogen by IARC. |
| <b>REPRODUCTIVE TOXICITY:</b>    | Cadmium is a suspected human reproductive toxicant. Overexposure may cause reproductive disorders based on tests with laboratory animals.   |

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### SECTION 12: ECOLOGICAL INFORMATION

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|                         |   |
|-------------------------|---|
| <b>ADVERSE EFFECTS:</b> | 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. |
|-------------------------|---|

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### SECTION 13: DISPOSAL CONSIDERATIONS

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|                                |   |
|--------------------------------|---|
| <b>PRODUCT:</b>                | 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. |
| <b>CONTAMINATED PACKAGING:</b> | Dispose of as unused product.   |

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### SECTION 14: TRANSPORT INFORMATION

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|                              |     |
|------------------------------|-----|
| <b>UN NUMBER:</b>            | N/A |
| <b>PROPER SHIPPING NAME:</b> | N/A |
| <b>HAZARD CLASS:</b>         | N/A |
| <b>PACKING GROUP:</b>        | N/A |
| <b>LABEL STATEMENT:</b>      | 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): *Cadmium, CAS NO. 7440-43-9.*  
**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.

### 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



**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.   |





## 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

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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<sub>2</sub>O=1.0): 0.95 g/cm<sup>3</sup>  
WATER SOLUBILITY: 1.5 wt%

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### SECTION 10: STABILITY AND REACTIVITY

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**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.

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### SECTION 11: TOXICOLOGICAL INFORMATION

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**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.

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### SECTION 12: ECOLOGICAL INFORMATION

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**ADVERSE EFFECTS:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

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### SECTION 13: DISPOSAL CONSIDERATIONS

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**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.

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### 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.