

## **SAFETY DATA SHEETS**

**This SDS packet was issued with item:**

071435247

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

071435254 071435569

**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).**

071435130 071435148 071435155 071435163 071436500 071436534 071436567 071436591

# 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	
	3 - HIGH	
	2 - MODERATE	
	1 - SLIGHT	
	0 - INSIGNIFICANT	

**PRODUCT: New Truliner™ Powder** (pink, vein, clear)  
DATE PREPARED: 4/14/09

HAZARDOUS COMPONENTS	
INGREDIENTS	PERCENTAGE
1. Nuisance, dust	1. N/A
2. Organic Peroxide	2. N/A
3. Residual Monomer	3. N/A
4. Cadmium Pigment (not in case of clear)	4. N/A
5. TiO <sub>2</sub>	5. N/A
COMMON NAMES AND SYNONYMS	CAS NUMBER
1. Polyethyl Methacrylate	1. N/D
2. Benzoyl Peroxide	2. 94-36-0
3. Titanium-dioxide	3. 13463-67-7
4. Residual Monomer	4. N/D
5. Cadmium Pigments (not in case of clear)	5. 7440-43-9
PEL	UN NUMBER
1. 15 mg/m <sup>3</sup>	1. N/A
2. 5 mg/m <sup>3</sup>	2. 3102
3. N/A	3. N/A
4. 0.05 mg/m <sup>3</sup>	4. N/A
5. 15 mg/m <sup>3</sup>	5. N/A
TLV	
1. 10 mg/m <sup>3</sup>	
2. 5 mg/m <sup>3</sup>	
3. 0.05 mg/m <sup>3</sup>	
4. N/A	
5. 10 mg/m <sup>3</sup>	

PHYSICAL/CHEMICAL CHARACTERISTICS	
BOILING POINT/FLASH POINT N/A	MELTING POINT N/D
SPECIFIC GRAVITY (Water = 1) 1.25 @ 20°C	VAPOR DENSITY (Air = 1) N/A
VAPOR PRESSURE N/A	EVAPORATION RATE (Butyl Acetate = 1) N/A
APPEARANCE/ODOR Fine pink/vein/clear powder with faint odor when in bulk.	SOLUBILITY IN WATER Insoluble

HEALTH HAZARD DATA	
CARCINOGENICITY California Proposition 65 Warning: This product may contain a chemical known to the state of California to cause cancer and/or birth defects.	NTP N/A
IARC No evidence.	OSHA REGULATED No

EMERGENCY & FIRST AID PROCEDURES
TREATMENT FOR EYE CONTACT Immediately flush eyes with water, contact physician.
TREATMENT FOR SKIN CONTACT Wash skin with soap and water.
TREATMENT FOR INHALATION (BREATHING) Move to fresh air.
TREATMENT FOR INGESTION (SWALLOWING) Rinse mouth out with water.

EFFECTS & HAZARDS OF OVEREXPOSURE (ACUTE & CHRONIC)
EFFECTS & HAZARDS OF EYE CONTACT May be irritated by gross overexposure.
EFFECTS & HAZARDS OF SKIN CONTACT May be irritated by gross overexposure.
EFFECTS & HAZARDS OF INHALATION (BREATHING) N/D
EFFECTS & HAZARDS OF INGESTION (SWALLOWING) Call physician.

PRECAUTIONS FOR SAFE HANDLING & USE
STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED Sweep up with sweeping compound. Avoid dusting.
WASTE DISPOSAL METHOD May be disposed of in landfill or incinerated. Follow Federal, state, and local regulations for disposal.
PRECAUTIONS TO BE TAKEN IN HANDLING Handle with care. Store in cool, dry place. Keep container closed to prevent water absorption and contamination.
OTHER PRECAUTIONS This product is for professional use only as stated in directions. It is the responsibility of the dentist to train personnel.

REACTIVITY DATA
STABILITY Stable at normal temperatures and storage conditions.
CONDITIONS TO AVOID Heating over 300°C
HAZARDOUS DECOMPOSITION PRODUCTS Methyl methacrylate monomers and oxides of carbon.
HAZARDOUS POLYMERIZATION Will not occur.
CONDITIONS TO AVOID N/A

FIRE AND EXPLOSION HAZARD DATA	
FLASH POINT 579°F (304°C)	LIMITS LEL N/A UEL N/A
EXTINGUISHING MEDIA Water, carbon dioxide, dry chemical	
SPECIAL FIREFIGHTING PROCEDURES 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.	
UNUSUAL FIRE AND EXPLOSION HAZARDS Polymer dust is combustible. The explosive limits of the polymer particles suspended in air are approximately those of coal dust. Fire fighters should wear self-contained breathing apparatus.	

CONTROL MEASURES
RESPIRATORY PROTECTION Use type for particulates not otherwise classified, if needed.
VENTILATION LOCAL EXHAUST VENTILATION Use if necessary.
SPECIAL VENTILATION Use if necessary.
MECHANICAL (GENERAL) VENTILATION Use if necessary.
OTHER VENTILATION Open window if necessary.
PROTECTION GLOVES Impervious gloves.
EYE PROTECTION Safety glasses.
OTHER PROTECTIVE EQUIPMENT N/A
WORK & HYGIENIC PRACTICES Wash hands before eating and smoking.

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 N/A	
HAZARD CLASS N/A	
IDENTIFICATION NUMBER N/A	
PACKAGING GROUP N/A	
LABEL N/A	

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: NEW TRULINER® Powder

FILE NO.: SDS973

SDS DATE: 06/19/2014

**SECTION 1: IDENTIFICATION**

**PRODUCT NAME:** NEW TRULINER Powder (PINK, VEIN, CLEAR)  
**PRODUCT CODES:** 0921970, 0921971, 0921972, 0921973, 0921974, 0921975, 0921977, 0921978, 0921979, 0921980, 0921981, 0921982  
**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)  
Skin sensitization (Category 1)  
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.
H317	May cause an allergic skin reaction.
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.
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).
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.

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**SAFETY DATA SHEET****NAME OF PRODUCT:** NEW TRULINER® Powder**FILE NO.:** SDS973**SDS DATE:** 06/19/2014

P342+P313	If experiencing respiratory symptoms: Get medical advice/attention.
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
Benzoyl Peroxide	94-36-0	1-5	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	Org. Perox. B; Eye Irrit. 2A; Skin Sens. 1; H241, H317, H319
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

*Cadmium pigments and Titanium Dioxide are not included in clear shade.**For full text of H-statements mentioned in this section, see section 16.***SECTION 4: FIRST-AID MEASURES**

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

**SECTION 5: FIRE-FIGHTING MEASURES**

<b>SUITABLE EXTINGUISHING MEDIA:</b>	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	Methacrylate monomers and oxides of carbon.
<b>SPECIAL HAZARDS:</b>	Polymer dust is combustible. The explosive limits of the polymer particles suspended in air are approximately those of coal dust.
<b>ADVICE FOR FIREFIGHTERS:</b>	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**

<b>PERSONAL PRECAUTIONS:</b>	Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
<b>ENVIRONMENTAL PRECAUTIONS:</b>	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
<b>CONTAINMENT AND CLEANUP:</b>	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

**SECTION 7: HANDLING AND STORAGE**

<b>PRECAUTIONS FOR SAFE HANDLING:</b>	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.
<b>CONDITIONS FOR SAFE STORAGE:</b>	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**

<b>ENGINEERING CONTROLS:</b>	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
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**SAFETY DATA SHEET**

FILE NO.: SDS973

NAME OF PRODUCT: NEW TRULINER® Powder

SDS DATE: 06/19/2014

	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. Discharge into the environment must be avoided.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE/COLOR:	Fine pink, pink/vein or white powder
ODOR:	Faint odor in bulk
FLASH POINT:	579°F (304°C)
RELATIVE DENSITY (H <sub>2</sub> O=1.0):	1.25 g/cm <sup>3</sup>
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:	<b>EYES:</b> May cause eye irritation. <b>SKIN:</b> May be harmful if absorbed through skin. May cause skin irritation. <b>INGESTION:</b> May be harmful if swallowed. <b>INHALATION:</b> May be harmful if inhaled. May cause respiratory tract irritation.
CARCINOGENICITY:	<b>OSHA:</b> Cadmium is a regulated carcinogen by OSHA. <b>ACGIH:</b> Cadmium is identified as a suspected human carcinogen by ACGIH. <b>NTP:</b> Cadmium is identified as a known human carcinogen by NTP. <b>IARC:</b> Cadmium is identified as a human carcinogen by IARC. Titanium dioxide is identified as a possible human carcinogen by IARC. Benzoyl peroxide is identified as not classifiable as to its carcinogenicity to humans 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.
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**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

**SECTION 15: REGULATORY INFORMATION**

PREPARED BY: SS

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**SAFETY DATA SHEET****NAME OF PRODUCT:** NEW TRULINER® Powder**US FEDERAL REGULATIONS****FILE NO.:** SDS973**SDS DATE:** 06/19/2014

**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; Benzoyl Peroxide, CAS NO. 94-36-0.*

**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.

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**SECTION 16: OTHER INFORMATION**

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**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
H241	Heating may cause a fire or explosion.
H301	Toxic if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
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
Org. Perox.	Organic peroxides
Repr.	Reproductive toxicity
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization
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.

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