## **SAFETY DATA SHEETS**

## This SDS packet was issued with item:

071435155

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

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 071435163 071436534 071436567 071436591 071439538

NAME OF PRODUCT: NEW TRULINER® Liquid

### SECTION 1: IDENTIFICATION

PRODUCT NAME: PRODUCT CODES: IDENTIFIED USES: USES ADVISED AGAINST: MANUFACTURER: ADDRESS: TELEPHONE: FAX: EMAIL: EMERGENCY PHONE: NEW TRULINER Liquid 0921970, 0921971, 0921972, 0921976, 0921977, 0921978, 0921979, 0921986 Dentistry Non-dental use Harry J. Bosworth Company 7227 North Hamlin Avenue, Skokie, Illinois 60076-3999, USA 847-679-3400 847-679-2080 hjbinfo@bosworth.com 800-535-5053 (US and Canada) 352-323-3500 (International)

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### **SECTION 2: HAZARDS IDENTIFICATION**

CLASSIFICATION:	Flammable liquids (	Category 3)	
CLASSIFICATION:			
	Acute toxicity, Oral (Category 5) Acute toxicity, Dermal (Category 5)		
	Skin irritation (Category 2)		
	Skin sensitization (Cate		
	Eye irritation (Categ		
	Acute toxicity, Inha		
	Specific target organ toxicity - single exposure (Category 3), Respiratory system Reproductive toxicity (Category 2)		
	Specific target organ toxicity - repeated exposure (Category 2) Acute aquatic toxicity (Category 1)		
	Chronic aquatic tox		
	FDA regulated devic	ce - exempt from Regulation (US) 29 CFR 1910.1200.	
PICTOGRAM:			
SIGNAL WORD:	Warning	VV	
HAZARD STATEMENTS:	H226	Flammable liquid and vapor.	
	H303	May be harmful if swallowed.	
	H313	May be harmful in contact with skin.	
	H315	Causes skin irritation.	
	H315	May cause an allergic skin reaction.	
	H317 H319	, ,	
	H333	Causes serious eye irritation.	
	H335	May be harmful if inhaled.	
		May cause respiratory irritation.	
	H361	Suspected of damaging fertility or the unborn child.	
	H373	May cause damage to organs through prolonged or repeated exposure.	
	H400	Very toxic to aquatic life.	
	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.	
	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.	
	P273	Avoid release to the environment.	
	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	
PREPARED BY: SS		PAGE 1 OF 5	

## Bosworth' Company SAFETY DATA SHEET

NAME OF PRODUCT: NEW TRULINER® Liquid

### FILE NO.: SDS976 SDS DATE: 06/19/2014

	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.
P342+P313	If experiencing respiratory symptoms: 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.
P501	Dispose of contents/container to an approved waste disposal plant.
	P305+P351+P338 P308+P313 P312 P321 P333+P313 P337+P313 P342+P313 P362 P370+P378 P391 P402 P403+P233

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	CAS NO.	%WT	OSHA PEL - TWA	ACGIH TLV - TWA	CLASSIFICATION
Isobutyl methacrylate	97-86-9	60-100	N/E	N/E	Flam. Liq. 3; Skin Irrit. 2; Eye Irrit. 2A; Skin Sens. 1; STOT SE 3; Aquatic Acute 1; H226, H315, H317, H319, H335, H400
Dibutyl phthalate	84-74-2	5-15	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	Repr. 1B; Aquatic Acute 1; Aquatic Chronic 1; H360, H410
N,N-Dimethyl- p-toluidine	99-97-8	1-5	N/E	N/E	Flam. Liq. 4; Acute Tox. 3; STOT RE 2; Aquatic Acute 3; Aquatic Chronic 3; H227, H301+H311+H331, H373, H412

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: HAZARDOUS DECOMPOSITION PRODUCT	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide. 5: Oxides of carbon and nitrogen.
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.
PREPARED BY: SS	PAGE 2 OF 5

### NAME OF PRODUCT: NEW TRULINER® Liquid

CONDITIONS FOR SAFE STORAGE: S

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. Discharge into the environment must be avoided.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/COLOR:	Clear, colorless liquid
ODOR:	Acrid
BOILING POINT:	311°F (155°C)
FLASH POINT:	113°F (45°C)
EVAPORATION RATE (BuAc = 1.0):	0.5
UPPER FLAMMABILITY LIMIT:	8.2
LOWER FLAMMABILITY LIMIT:	1.8
VAPOR PRESSURE:	3 mmHg
VAPOR DENSITY (AIR=1.0):	4.91
RELATIVE DENSITY (H2O=1.0):	$0.90 \text{ g/cm}^3$

### 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:	Strong acids, strong bases and oxidizing agents. Material has strong solvent properties and can soften paint and rubber.
HAZABDOUS DECOMPOSITION BRODUC	TS: Ovides of carbon and nitrogen

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon and nitrogen.

### SECTION 11: TOXICOLOGICAL INFORMATION

DOTENTIAL USALTU SESSO	EVEC. May cause any instation with reduces traving and stinging
POTENTIAL HEALTH EFFECTS:	EYES: May cause eye irritation with redness, tearing and stinging.
	<b><u>SKIN</u></b> : May cause skin irritation with redness, swelling and itching. Repeated or prolonged contact may cause
	drying, defatting of the skin and dermatitis.
	<b>INGESTION:</b> 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:	<b>OSHA:</b> No component of this product present at levels greater than or equal to 0.1% is identified as a
CARCING GENICITY.	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.
	<u>NTP:</u> 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.
	<b>IARC:</b> No component of this product present at levels greater than or equal to 0.1% is identified as probable,
	possible or confirmed human carcinogen by IARC.
REPRODUCTIVE TOXICITY:	Dibutyl phthalate is a presumed human reproductive toxicant. Overexposure may cause reproductive
	disorders based on tests with laboratory animals.
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NAME OF PRODUCT: NEW TRULINER® Liquid

SECTION 12: ECOLOGICAL INFORMATION		
ADVERSE EFFECTS:	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life. May cause long lasting harmful effects to aquatic life. Avoid release to the environment.	
SECTION 13: DISPOSAL CON	SIDERATIONS	
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 IN	IFORMATION	
UN NUMBER: PROPER SHIPPING NAME: HAZARD CLASS: PACKING GROUP: LABEL STATEMENT:	UN2283 Isobutyl methacrylate, stabilized 3 III Flammable Liquid	
SECTION 15: REGULATORY IN	IFORMATION	
US FEDERAL REGULATIONS		
TSCA	This product is an EDA regulated device and not subject to TSCA regulations	

TSCA: CERCLA:	This product is an FDA regulated device and not subject to TSCA regulations. 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): Dibutyl Phthalate, CAS NO. 84-74-2.
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: EUROPEAN INVENTORY OF EXISTING COMMERCIAL CHEMICAL SUBSTANCES	This product is a medical device and not subject to chemical notification requirements.
(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
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquids
H226	Flammable liquid and vapor.
H227	Combustible liquid.
H301+H311+H331	Toxic if swallowed, in contact with skin or if inhaled.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H360	May damage fertility or the unborn child.

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NAME OF PRODUCT: NEW TRULINER® Liquid

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May cause damage to organs through prolonged or re	epeated exposure.
Very toxic to aquatic life.	
Very toxic to aquatic life with long lasting effects.	
Harmful to aquatic life with long lasting effects.	
Reproductive toxicity	
Skin irritation	
Skin sensitization	
Specific target organ toxicity – repeated exposure	
Specific target organ toxicity – single exposure	
2	
2	
2	
	Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects. Reproductive toxicity Skin irritation Skin sensitization Specific target organ toxicity – repeated exposure Specific target organ toxicity – single exposure

**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.

NAME OF PRODUCT: NEW TRULINER® Powder

### **SECTION 1: IDENTIFICATION**

FILE NO.: SDS973 SDS DATE: 06/19/2014

DRODUCT NAME:			
PRODUCT NAME: PRODUCT CODES:	NEW TRULINER Powder (PINK, VEIN, CLEAR) 0921970, 0921971, 0921972, 0921973, 0921974, 0921975, 0921977, 0921978, 0921979, 0921980, 0921981,		
PRODUCT CODES.	0921970, 0921971, 0921972, 0921973, 0921974, 0921973, 0921977, 0921978, 0921978, 0921978, 0921982		
IDENTIFIED USES:	Dentistry		
USES ADVISED AGAINST:	Non-dental use		
MANUFACTURER:			
ADDRESS:	Harry J. Bosworth Company 7227 North Hamlin Avenue, Skokie, Illinois 60076-3999, USA		
TELEPHONE:	7227 North Hamlin Avenue, Skokie, Illinois 60076-3999, USA 847-679-3400		
FAX:	847-679-2080		
EMAIL:	hjbinfo@bosworth.	com	
EMERGENCY PHONE:	800-535-5053 (US a		
	352-323-3500 (Inte		
SECTION 2: HAZARDS IDENTIF	ICATION		
CLASSIFICATION:	Acute toxicity, Oral	(Category 5)	
	Acute toxicity, Derr		
	Skin sensitization (C		
	Eye irritation (Cate)		
	Acute toxicity, Inha		
		in toxicity - single exposure (Category 3), Respiratory system	
	Germ cell mutagen		
	Carcinogenicity (Ca		
	Reproductive toxici		
		in toxicity - repeated exposure (Category 2)	
	Chronic aquatic tox		
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.	
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.	
	P312 P321	Specific treatment (see supplemental first aid instructions on this label).	
	P333+P313	If skin irritation or rash occurs: Get medical advice/attention.	
	1 3 3 3 1 3 1 3		

P337+P313

If eye irritation persists: Get medical advice/attention.

## Bosworth Company

### SAFETY DATA SHEET

## FILE NO.: SDS973

NAME OF PRODUCT: NEW TRULINER® Powder

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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

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: HAZARDOUS DECOMPOSITION PRODUCT	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide. S: 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

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NAME OF PRODUCT: NEW TRULINER® Powder

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	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.

ventilation is preferred since it prevents contamination dispersion into the work area by controlling it at its

### 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 (H2O=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:	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. 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.

### 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
CONTAMINATED PACKAGING:	official regulations. 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.	<b>REGULATORY</b>	INFORMATION
JECHON	тэ.	NEGOLATONT	

# Bosworth<sup>®</sup> Company

### NAME OF PRODUCT: NEW TRULINER<sup>®</sup> Powder US FEDERAL REGULATIONS

### FILE NO.: SDS973 SDS DATE: 06/19/2014

TSCA: CERCLA:	This product is an FDA regulated device and not subject to TSCA regulations. 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: EUROPEAN INVENTORY OF EXISTING COMMERCIAL CHEMICAL SUBSTANCES	This product is a medical device and not subject to chemical notification requirements.
(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
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

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

### PREPARED BY: SS

**Reactivity Hazard** 



## **SAFETY DATA SHEET**

**Bonding Liquid** 

## Section 1. Identification

GHS product identifier	: Bonding Liquid
Other means of identification	: Not available.
Product code	: 0921788, 0921789, 0921983, 0921984
Product type	: Liquid.
Product use	: Dental Products MONOMER FOR POLYMETHACRYLATE RESINS; IMPREGNATION OF CONCRETE.
Relevant identified uses o	f the substance or mixture and uses advised against
Not applicable.	
Supplier's details	: Keystone Industries 52 West King Street Myerstown, PA 17067 (856) 663-4700
Emergency telephone number (with hours of operation)	: (800) 535-5053
Section 2. Hazar	ds identification
OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 SKIN SENSITIZATION - Category 1

SKIN SENSITIZATION - Calegory T
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract
irritation) - Category 3

GHS label elements		
Hazard pictograms	:	
		•



Signal word	: Danger
Hazard statements	<ul> <li>Highly flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. May cause respiratory irritation.</li> </ul>
Precautionary statements	
Prevention	: Wear protective gloves. Wear eye or face protection surfaces, sparks, open flames and other ignition sour proof electrical, ventilating, lighting and all material-ha

: Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

## Section 2. Hazards identification

Response	: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention.
Storage	: Store locked up. Store in a well-ventilated place. Keep cool.
Disposal	<ul> <li>Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> </ul>
Hazards not otherwise classified	: None known.

## Section 3. Composition/information on ingredients

Substance/mixture	: Substance
Other means of identification	: Not available.

### **CAS number/other identifiers**

CAS number

: Not available.

May contain one or more of the following components in quantities considered hazardous:

Ingredient name	CAS number	EC number	%
methyl methacrylate	80-62-6	201-297-1	100.00

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

Description of necessary first aid measures			
Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.		
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.		
Skin contact	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.		
Ingestion	: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately.		

## Section 4. First aid measures

Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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Most important symptoms/e	ffects, acute and delayed		
Potential acute health effect	<u>xts</u>		
Eye contact	: No known significant effects or critical hazards.		
Inhalation	: May cause respiratory irritation.		
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.		
Ingestion	: No known significant effects or critical hazards.		
Over-exposure signs/symp	<u>toms</u>		
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness		
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing		
Skin contact	: Adverse symptoms may include the following: redness irritation		
Ingestion	: No specific data.		
Indication of immediate medical attention and special treatment needed, if necessary			
Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>		
Specific treatments	: No specific treatment.		
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.		

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Highly flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide

## Section 5. Fire-fighting measures

Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

Personal precautions, protec	tiv	e equipment and emergency procedures	
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.	
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".	
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).	
Methods and materials for containment and cleaning up			
Small spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.	
Large spill		Stop leak if without risk Move containers from spill area. Use spark-proof tools and	

Large spill
 Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

### Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
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## Section 7. Handling and storage

Conditions for safe storage,	1	Store in accordance with local regulations. Store in a segregated and approved area.
including any		Store in original container protected from direct sunlight in a dry, cool and well-ventilated
incompatibilities		area, away from incompatible materials (see Section 10) and food and drink. Store
		locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep
		container tightly closed and sealed until ready for use. Containers that have been
		opened must be carefully resealed and kept upright to prevent leakage. Do not store in
		unlabeled containers. Use appropriate containment to avoid environmental
		contamination.
		opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental

## Section 8. Exposure controls/personal protection

### **Control parameters**

### **Occupational exposure limits**

Exposure limits
ACGIH TLV (United States, 3/2016). Skin
sensitizer.
TWA: 50 ppm 8 hours.
STEL: 100 ppm 15 minutes.
OSHA PEL 1989 (United States, 3/1989).
TWA: 100 ppm 8 hours.
TWA: 410 mg/m <sup>3</sup> 8 hours.
NIOSH REL (United States, 10/2013).
TWA: 100 ppm 10 hours.
TWA: 410 mg/m <sup>3</sup> 10 hours.
OSHA PEL (United States, 2/2013).
TWA: 100 ppm 8 hours.
TWA: 410 mg/m <sup>3</sup> 8 hours.

Appropriate engineering controls	:	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection meas	<u>ures</u>	
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Skin protection		

## Section 8. Exposure controls/personal protection

Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties

<u>Appearance</u>		
Physical state	: Liquid.	
Color	: Colorless.	
Odor	: Characteristic.	
рН	: Not available.	
Melting point	: -48°C (-54.4°F)	
Boiling point	: 102°C (215.6°F)	
Flash point	: Closed cup: 10°C (50°F)	
Lower and upper explosive	: Lower: 2.1%	
(flammable) limits	Upper: 12.5%	
Vapor pressure	: 3.7 kPa (27.75 mm Hg) [room temperature	e]
Vapor density	: 3.5 [Air = 1]	
Relative density	: 0.95	
Solubility	: Not available.	
Solubility in water	: 15.3 g/l	
Partition coefficient: n-	: 1.38	
octanol/water		
Auto-ignition temperature	: 400°C (752°F)	
Viscosity	: Not available.	
<u>Aerosol product</u>		
Heat of combustion	: -26.52 kJ/g	

## Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Hazardous reactions or instability may occur under certain conditions of storage or use.

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## Section 10. Stability and reactivity

Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
methyl methacrylate	LC50 Inhalation Vapor LD50 Dermal LD50 Oral	Rabbit	78000 mg/m³ >5 g/kg 7872 mg/kg	4 hours - -

**Classification** 

Π	Product/ingredient name	OSHA	IARC	NTP
	methyl methacrylate	-	3	-

### Specific target organ toxicity (single exposure)

Name	•••	Route of exposure	Target organs
methyl methacrylate	Category 3	Not applicable.	Respiratory tract irritation
methyl methacrylate	Category 3	Not applicable.	Respiratory tract irritation

Information on the likely routes of exposure	:	Not available.
Potential acute health effects	2	
Eye contact	:	No known significant effects or critical hazards.
Inhalation	:	May cause respiratory irritation.
Skin contact	1	Causes skin irritation. May cause an allergic skin reaction.
Ingestion	:	No known significant effects or critical hazards.
Symptoms related to the phy	sic	cal, chemical and toxicological characteristics
Eye contact	:	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	:	Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	:	Adverse symptoms may include the following: redness irritation
Ingestion	:	No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

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## Section 11. Toxicological information

Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	ects
Not available.	
General	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

### Numerical measures of toxicity

Acute toxicity estimates

Not available.

## Section 12. Ecological information

### **Toxicity**

Product/ingredient name	Result	Species	Exposure
methyl methacrylate	Acute LC50 130000 µg/l Fresh water	Fish - Pimephales promelas - Adult	96 hours

### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
methyl methacrylate	1.38	-	low
methyl methacrylate	1.38		low

### Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

## Section 13. Disposal considerations

Disposal methods :	The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered
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## Section 13. Disposal considerations

when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

### United States - RCRA Toxic hazardous waste "U" List

Ingredient	CAS #		Reference number
Methyl methacrylate (I,T); 2-Propenoic acid, 2-methyl-, methyl ester (I,T)	-	Listed	U162

## Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	ΙΑΤΑ
UN number	UN1247	UN1247	UN1247	UN1247	UN1247	UN1247
UN proper shipping name	Methyl methacrylate monomer, stabilized	Methyl methacrylate monomer, stabilized	Methyl methacrylate monomer, stabilized	Methyl methacrylate monomer, stabilized	Methyl methacrylate monomer, stabilized	Methyl methacrylate monomer, stabilized
Transport hazard class(es)	3	3	3	3	3	3
Packing group	11	Ш	Ш	11	П	II
Environmental hazards	No.	No.	No.	No.	No.	No.
Additional information	Reportable guantity 1000 lbs / 454 kg [126.25 gal / 477.89 L] Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2. 18-2.19 (Class 3).				

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Date of issue/Date of revision

## Section 14. Transport information

Transport in bulk according : Not available. to Annex II of MARPOL and the IBC Code

## Section 15. Regulatory information

U.S. Federal regulations	:	TSCA 8(a) CDR United States in Clean Water Ac	nvent	ory (TSC	CA 8b): All com	nponents are I		ited.	
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	:	Listed							
Clean Air Act Section 602 Class I Substances	:	Not listed							
Clean Air Act Section 602 Class II Substances	:	Not listed							
DEA List I Chemicals (Precursor Chemicals)	:	Not listed							
DEA List II Chemicals (Essential Chemicals)	:	Not listed							
SARA 302/304 Composition/information of	<u>on</u>	ingredients							
No products were found.									
SARA 304 RQ	:	Not applicable.							
<u>SARA 311/312</u>									
Classification	1	Fire hazard Immediate (acut	te) hea	alth haza	rd				
Composition/information	on	ingredients							
Name		%		Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health	Delayed (chronic) health	

### **SARA 313**

methyl methacrylate

	Product name	CAS number	%
Form R - Reporting requirements	Bonding Liquid	-	100.00
Supplier notification	Bonding Liquid	-	100.00

No.

Yes.

100.00

hazard

Yes.

No.

hazard

No.

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

### **State regulations**

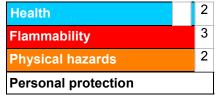
Date of issue/Date of revision	: 9/12/2016	Date of previous issue	: 9/12/2016	Version		
Pennsylvania	: The followir ESTER	ng components are listed	I: 2-PROPENOIC AC	CID, 2-METHYL	-, METHY	′L
New Jersey		ng components are listed ETHYL-, METHYL ESTE		CRYLATE; 2-PF	ROPENOI	С
New York	: The followir methyl este	ng components are listed r	I: Methyl methacrylat	e; 2-Propenoic	acid, 2-m	ethyl-,
Massachusetts	: The followir	ng components are listed	I: METHYL METHAC	CRYLATE		

## Section 15. Regulatory information

5	·
Canada inventory	: All components are listed or exempted.
International regulations	
International lists	<ul> <li>Australia inventory (AICS): All components are listed or exempted.</li> <li>China inventory (IECSC): All components are listed or exempted.</li> <li>Japan inventory (ENCS): All components are listed or exempted.</li> <li>Japan inventory (ISHL): All components are listed or exempted.</li> <li>Korea inventory: All components are listed or exempted.</li> <li>Malaysia Inventory (EHS Register): All components are listed or exempted.</li> <li>New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.</li> <li>Philippines inventory (PICCS): All components are listed or exempted.</li> <li>Taiwan Chemical Substances Inventory (TCSI): All components are listed or exempted.</li> </ul>
Chemical Weapons Convention List Schedule I Chemicals	: Not listed
Chemical Weapons Convention List Schedule II Chemicals	: Not listed
Chemical Weapons Convention List Schedule III Chemicals	: Not listed

## Section 16. Other information

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

### National Fire Protection Association (U.S.A.)



Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

### **History**

## Section 16. Other information

Date of printing	: 9/12/2016
Date of issue/Date of revision	: 9/12/2016
Date of previous issue	: 9/12/2016
Version	: 1.01
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations
References	: Not available.

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes 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 hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Information contained within this SDS is only to be distributed as required by law.

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