

## **SAFETY DATA SHEETS**

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

071442508

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

071442516



## SAFETY DATA SHEET

NAME OF PRODUCT: VIGILANCE® Multi-Purpose Enzyme Concentrate Solution

FILE NO.: SDS469

SDS DATE: 06/19/2014

### SECTION 1: IDENTIFICATION

**PRODUCT NAME:** VIGILANCE Multi-Purpose Enzyme Concentrate Solution  
**PRODUCT CODES:** 0921469, 0921472  
**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 4)  
Oxidizing liquids (Category 3)  
Acute toxicity, Oral (Category 5)  
Skin irritation (Category 3)  
Eye irritation (Category 2B)  
Acute aquatic toxicity (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:**  
H227 Combustible liquid.  
H272 May intensify fire; oxidizer.  
H303 May be harmful if swallowed.  
H316 Causes mild skin irritation.  
H320 Causes eye irritation.  
H401 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.  
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.  
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.  
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.  
P363 Wash contaminated clothing 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.



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### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	CAS NO.	%WT	OSHA PEL - TWA	ACGIH TLV - TWA	CLASSIFICATION
Sodium Nitrite	7632-00-0	5-10	N/E	N/E	Ox. Sol. 3; Acute Tox. 3; Eye Irrit. 2A; Aquatic Acute 1; H272, H301, H319, H400
2-Propanol	67-63-0	1-5	400 ppm	200 ppm	Flam. Liq. 2; Eye Irrit. 2A; STOT SE 3; H225, H319, H336
Alcohols, C12-16, ethoxylated	68551-12-2	1-5	N/E	N/E	Skin Irrit. 2; Eye Irrit. 2A; Aquatic Acute 1; Aquatic Chronic 1; H315, H319, H410
Subtilisin	90014-01-1	0.1-1.5	0.00006 mg/m <sup>3</sup>	0.00006 mg/m <sup>3</sup>	Acute Tox. 4; Skin Irrit. 2; Eye Dam. 1; Resp. Sens. 1; STOT SE 3; H302, H315, H318, H334, 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:** Rinse thoroughly with plenty of water for at least 15 minutes. 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:** Oxides of nitrogen, sodium and carbon.

**SPECIAL HAZARDS:** No further relevant information available.

**ADVICE FOR FIREFIGHTERS:** 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. Evacuate personnel to safe 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. 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, skin and clothing. Avoid inhalation of vapor or mist. 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.

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NAME OF PRODUCT: VIGILANCE® Multi-Purpose Enzyme Concentrate Solution

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**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.

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### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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**APPEARANCE/COLOR:** Clear, colorless to amber liquid  
**ODOR:** Floral  
**FLASH POINT:** 149°F (65°C)  
**RELATIVE DENSITY (H<sub>2</sub>O=1.0):** 1.06 g/cm<sup>3</sup>  
**WATER SOLUBILITY:** Soluble

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### SECTION 10: STABILITY AND REACTIVITY

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**CHEMICAL STABILITY:** Stable under recommended storage conditions.  
**HAZARDOUS REACTIONS:** No further relevant information available.  
**CONDITIONS TO AVOID:** Heat, flames and sparks. Extremes of temperature and direct sunlight.  
**INCOMPATIBLE MATERIALS:** Acids, powdered metals, ammonia, cyanides, amines, activated carbon  
**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of nitrogen, sodium and 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.  
**INHALATION:** May cause mucous membrane and respiratory irritation. May cause sensitization by inhalation.  
**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:** Sodium nitrite is identified as a probable human carcinogen by IARC. 2-Propanol 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. Toxic to aquatic life. 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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**PRODUCT:** Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Disposal must be made according to official regulations.  
**CONTAMINATED PACKAGING:** Dispose of as unused product.

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### SECTION 14: TRANSPORT INFORMATION

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**UN NUMBER:** N/A  
**PROPER SHIPPING NAME:** N/A  
**HAZARD CLASS:** N/A  
**PACKING GROUP:** N/A  
**LABEL STATEMENT:** N/A

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### SECTION 15: REGULATORY INFORMATION

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NAME OF PRODUCT: VIGILANCE® Multi-Purpose Enzyme Concentrate Solution

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### US FEDERAL REGULATIONS

TSCA:	This product is an FDA regulated device and not subject to TSCA regulations.
CERCLA:	This product is an FDA regulated device and not subject to reporting requirements. There may be specific reporting requirements at the local, regional, or state level.
SARA 313 TOXIC CHEMICALS:	The following components are subject to reporting levels established by SARA Title III, Section 313 (40 CFR 372): <i>Sodium Nitrite</i> , CAS NO. 7632-00-0; <i>2-Propanol</i> , CAS NO. 67-63-0.
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.
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### INTERNATIONAL REGULATIONS

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

## SECTION 16: OTHER INFORMATION

### FULL TEXT OF H STATEMENTS REFERRED TO UNDER SECTION 3

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Eye Dam.	Causes serious eye damage
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquids
H225	Highly flammable liquid and vapor.
H272	May intensify fire; oxidizer.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H410	Very toxic to aquatic life with long lasting effects.
Ox. Sol.	Oxidizing solids
Resp. Sens.	Respiratory sensitization
Skin Irrit.	Skin irritation
STOT SE	Specific target organ toxicity - single exposure

### NFPA RATING

Health Hazard	2
Fire Hazard	2
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 herein, we cannot guarantee that these are the only hazards that exist.

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