

Bendo Dental Supply Co. - Safety Data Sheet (SDS)

OSHA HazCom 2012 Standard 29 CFR 1910.1200. Prepared to GHS Rev03.

Printing date 07/10/2014

Reviewed on 07/10/2014

*** 1 Identification****• Product identifier****• Trade name: Z-3 Multi-Purpose Enzymatic Detergent****• Product description**

Environmentally and user friendly evacuation system cleaner, instrument presoak and ultrasonic cleaning solution designed for the dental, medical industries and veterinary industries. This product is a liquid with green coloring and lemongrass-lavender scent.

• Details of the supplier of the safety data sheet •**Manufacturer/Supplier:**

Benco Dental Supply Company
295 Centerpoint Blvd.
Pittston, PA 18640
1-800-462-36260

Emergency telephone number: CHEMTREC - 24-Hour Hazmat Emergency Communications Center

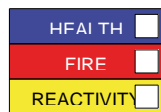
Domestic: 1-800-424-9300 Outside the U.S.: 1-703-527-3887

2 Hazard(s) identification**• Classification of the substance or mixture**

The product is not classified according to the Globally Harmonized System (GHS).

• Label elements**• GHS label elements** Non-Regulated Material**• Hazard pictograms** Non-Regulated Material**• Signal word** Non-Regulated Material**• Hazard statements** Non-Regulated Material**• Classification system:****• NFPA ratings (scale 0 - 4)**

Health = 0
Fire = 0
Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = 0
Fire = 0
Reactivity = 0

*** 3 Composition/information on ingredients**

7732-18-5	water, distilled, conductivity or of similar purity	90-99%
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• Chemical characterization: Mixtures

• Description: Mixture of the substances listed below with nonhazardous additions.

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• Dangerous Components:

Trade Secret	≤ 2.5%
Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	
Trade Secret	≤ 2.5%
⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2B, H320	

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* 4 First-aid measures

• **Description of first aid measures**

- **General information:** No special measures required. •

After inhalation:

Supply fresh air. If required, provide artificial respiration. Consult doctor if symptoms persist.

In case of unconsciousness, place patient securely on side position for transportation.

- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** Give large amounts of water. If symptoms persist consult doctor.
- **Most important symptoms and effects, both acute and delayed** No further relevant information available. •

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

• **Extinguishing media**

• **Suitable extinguishing agents:**

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. •

Special hazards arising from the substance or mixture No further relevant information available. •

Advice for firefighters

- **Protective equipment:** Mouth respiratory protective device.

* 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required. •

Environmental precautions: No special measures required.

• **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (ie. sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

• **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

• **Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- **Information about protection against explosions and fires:** No special measures required.

• **Conditions for safe storage, including any incompatibilities**

• **Storage:**

- **Requirements to be met by storerooms and receptacles:** No special requirements. •

Information about storage in one common storage facility: Not required.

- **Further information about storage conditions:** Keep receptacle tightly sealed.

- **Specific end use(s)** No further relevant information available.

* 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see section 7.

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- **Control parameters**
- **Components with occupational exposure limits:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work. •
- **Breathing equipment:** Not required.
- **Protection of hands:** Not required.
- **Eye protection:** Goggles recommended during refilling.

* 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
 - Form:** Liquid
 - Color:** Green
- **Odor:** Lemongrass lavender
- **Odor threshold:** Not determined.
- **pH-value @ 20 °C (68 °F):** 4.2
- **Change in condition**
 - Melting point/Melting range:** Not determined.
 - Boiling point/Boiling range:** 100 °C (212 °F)
- **Flash point:** Not applicable.
- **Flammability (solid, gaseous):** Not applicable.
- **Ignition temperature:**
 - Decomposition temperature:** Not determined.
- **Auto igniting:** Product is not selfigniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**
 - Lower:** 0.0 Vol %
 - Upper:** 0.0 Vol %
- **Vapor pressure @ 20 °C (68 °F):** 23 hPa (17 mm Hg)
- **Density @ 20 °C (68 °F):** 1 g/cm³ (8.345 lbs/gal)
- **Relative density** Not determined.
- **Vapour density** Not determined.
- **Evaporation rate** Not determined.
- **Solubility in / Miscibility with**
 - Water:** Fully miscible.
- **Partition coefficient (n-octanol/water):** Not determined.

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- **Viscosity:**
 - Dynamic:** Not determined.
 - Kinematic:** Not determined.
- **Solvent content:**
 - Organic solvents:** 0.1 %
 - Water:** 93.1 %
 - VOC content:** 4.9 %
- **Solids content:** 2.0 %
- **Other information** pH of applied product when mixed with city water and used as directed: 7.0-9.0.

10 Stability and reactivity

- **Reactivity** No further relevant information available. •
- Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications. •
- Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects** •
- Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Harmful
- **Carcinogenic categories**

- | |
|--|
| • IARC (International Agency for Research on Cancer) |
| None of the ingredients is listed. |
| • NTP (National Toxicology Program) |
| None of the ingredients is listed. |
| • OSHA-Ca (Occupational Safety & Health Administration) |
| None of the ingredients is listed. |

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available. •
- Bioaccumulative potential** No further relevant information available. •
- Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Water hazard class 1 (Self-assessment): slightly hazardous for water

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• **Results of PBT and vPvB assessment** •

PBT: Not applicable.

• **vPvB:** Not applicable.

• **Other adverse effects** No further relevant information available.

* 13 Disposal considerations

• **Waste treatment methods**

• **Recommendation:** Recycle or dispose with household trash.

• **Uncleaned packagings:**

• **Recommendation:** Disposal must be made according to official regulations.

• **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

• **UN-Number**

• **DOT, ADR, ADN, IMDG, IATA**

Non-Regulated Material

• **UN proper shipping name**

• **DOT, ADR, ADN, IMDG, IATA**

Non-Regulated Material

• **Transport hazard class(es)**

• **DOT, ADR, ADN, IMDG, IATA** •

Class

Non-Regulated Material

• **Packing group**

• **DOT, ADR, IMDG, IATA** •

Non-Regulated Material

Environmental hazards: •

Marine pollutant:

No

• **Special precautions for user**

Not applicable.

• **Transport in bulk according to Annex II of**

MARPOL73/78 and the IBC Code

Not applicable.

• **UN "Model Regulation":**

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* 15 Regulatory information

• **Safety, health and environmental regulations/legislation specific for the substance or mixture**

• **Sara**

• **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

• **Section 313 (Specific toxic chemical listings):**

Trade Secret

• **TSCA (Toxic Substances Control Act):**

Trade Secret

Trade Secret

112-42-5 undecan-1-ol

64-19-7 Glacial Acidic Acid

7732-18-5 water, distilled, conductivity or of similar purity

• **Proposition 65**

• **Chemicals known to cause cancer:**

None of the ingredients is listed.

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• Chemicals known to cause reproductive toxicity for females:		
None of the ingredients is listed.		
• Chemicals known to cause reproductive toxicity for males:		
None of the ingredients is listed.		
• Chemicals known to cause developmental toxicity:		
None of the ingredients is listed.		
• Carcinogenic categories		
• EPA (Environmental Protection Agency)		
None of the ingredients is listed.		
• TLV (Threshold Limit Value established by ACGIH)		
None of the ingredients is listed.		
• NIOSH-Ca (National Institute for Occupational Safety and Health)		
None of the ingredients is listed.		
• GHS label elements Non-Regulated Material		
• Hazard pictograms Non-Regulated Material		
• Signal word Non-Regulated Material		
• Hazard statements Non-Regulated Material		
• National regulations:		
The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.		
• State Right to Know		
	Trade Secret	≤ 2.5%
	⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	
	Trade Secret	≤ 2.5%
	⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2B, H320	
112-42-5	undecan-1-ol	≤ 2.5%
	SILICONE EMULSION	≤ 2.5%
64-19-7	Glacial Acidic Acid	≤ 2.5%
	⚠ Flam. Liq. 3, H226; ⚠ Skin Corr. 1A, H314	
7732-18-5	water, distilled, conductivity or of similar purity	90-99%
All ingredients are listed.		
• Chemical safety assessment: A Chemical Safety Assessment has not been carried out.		

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

• **Date of preparation / last revision** 07/10/2014 / 1

• **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

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HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A

Eye Irrit. 2B: Serious eye damage/eye irritation, Hazard Category 2B

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

· *** Data compared to the previous version altered.**

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