

SAFETY DATA SHEET

NAME OF PRODUCT: DENTUSIL™ Adhesive

FILE NO.: SDS278

SDS DATE: 06/19/2014

SECTION 1: IDENTIFICATION

PRODUCT NAME: DENTUSIL Adhesive
PRODUCT CODES: 0921276, 0921278
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: Skin irritation (Category 2)
 Eye irritation (Category 2A)
 Carcinogenicity (Category 2)
 Specific target organ toxicity - single exposure (Category 3), Respiratory system
 Specific target organ toxicity - single exposure (Category 3), Central nervous system
 Specific target organ toxicity - repeated exposure, Oral (Category 2), Liver, Blood
 Specific target organ toxicity - repeated exposure, Inhalation (Category 2), Central nervous system
LABELING: FDA regulated device - exempt from Regulation (US) 29 CFR 1910.1200.

PICTOGRAM:



SIGNAL WORD: Warning
HAZARD STATEMENTS:

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H373	May cause damage to organs (Liver, Blood) through prolonged or repeated exposure if swallowed.
H373	May cause damage to organs (Central nervous system) through prolonged or repeated exposure if inhaled.

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.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301+P330	IF SWALLOWED: Rinse mouth.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P312	Call a POISON CENTER or doctor/ physician if you feel unwell.
P321	Specific treatment (see supplemental first aid instructions on this label).
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.
P391	Collect spillage.
P402	Store in a dry place.



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P403+P233

P501

Store in a well-ventilated place. Keep container tightly closed.

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
Methylene Chloride	75-09-2	70-100	25 ppm	50 ppm	Skin Irrit. 2; Eye Irrit. 2A; Carc. 2; STOT SE 3; STOT RE 2; H315, H319, H335, H336, H351, H373, H373

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: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

SECTION 5: FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon, phosgene, hydrochloric acid, chlorine.
SPECIAL HAZARDS: Forms corrosive chemicals on contact with water. Vapor may accumulate in hazardous amounts in low-lying areas especially inside confined spaces, resulting in a toxicity hazard. Closed containers may rupture violently when heated releasing contents.
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. Evacuate personnel to safe areas.
ENVIRONMENTAL PRECAUTIONS: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
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 and skin. 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.
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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/COLOR: Clear, slightly yellow liquid

PREPARED BY: SS



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NAME OF PRODUCT: DENTUSIL™ Adhesive
ODOR: Sweet
MELTING POINT: -143°F (-97°C)
INITIAL BOILING POINT AND RANGE: 103.6-104°F (39.8-40°C)
EVAPORATION RATE (BuAc = 1.0): 0.71
UPPER FLAMMABILITY LIMIT: 19.0
LOWER FLAMMABILITY LIMIT: 12.0
VAPOR PRESSURE: 353.2 mmHg at 68°F (20°C)
VAPOR DENSITY (AIR=1.0): 2.93
RELATIVE DENSITY (H2O=1.0): 1.33 g/cm³
WATER SOLUBILITY: Slightly soluble
PARTITION COEFFICIENT (log Pow): 1.25
AUTO-IGNITION TEMPERATURE: 1,033°F (556°C)

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under recommended storage conditions.
HAZARDOUS REACTIONS: No further relevant information available.
CONDITIONS TO AVOID: Heat, flames, sparks. Extremes of temperature and direct sunlight.
INCOMPATIBLE MATERIALS: Alkali metals, aluminum, strong oxidizing agents, amines, magnesium, strong acids, strong bases, vinyl compounds.
HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon, phosgene, hydrochloric acid, chlorine.

SECTION 11: TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS: **EYES:** May cause eye irritation with redness, tearing and stinging. Prolonged exposure to high concentration of vapor can cause eye damage.
SKIN: May cause skin irritation with redness, swelling and itching. Repeated or prolonged contact may cause drying, defatting of the skin and dermatitis. Heavy or prolonged contact may result in the absorption of harmful amounts of material.
INGESTION: May cause mucous membrane and gastrointestinal irritation with nausea, vomiting and diarrhea. May cause nervous system depression with symptoms of headache, dizziness, nausea, vomiting, weakness, fatigue, confusion, and unconsciousness. Repeated or prolonged exposure may cause damage to the liver and blood.
INHALATION: May cause mucous membrane and respiratory irritation and central nervous system depression with symptoms of headache, dizziness, drowsiness, nausea, vomiting, unconsciousness, and death. High vapor concentrations may cause burning sensation of the nose and throat and watering of the eyes. Repeated or prolonged exposure may cause damage to the central nervous system. Metabolized in the body producing carbon monoxide which increases and sustains carboxyhemoglobin levels in the blood, reducing the oxygen-carrying capacity of the blood. Acts as a simple asphyxiant by displacing air.

CARCINOGENICITY: **OSHA:** Methylene chloride is a regulated carcinogen by OSHA.
ACGIH: Methylene chloride is identified as a confirmed animal carcinogen with unknown relevance to humans by ACGIH.
NTP: Methylene chloride is identified as a reasonably anticipated carcinogen by NTP.
IARC: Methylene chloride is identified as a possible human carcinogen by IARC.

SECTION 12: ECOLOGICAL INFORMATION

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

SECTION 13: DISPOSAL CONSIDERATIONS

PRODUCT: 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. 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: UN1593

PREPARED BY: SS

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NAME OF PRODUCT: DENTUSIL™ Adhesive

PROPER SHIPPING NAME: Dichloromethane

HAZARD CLASS: 6.1

PACKING GROUP: III

LABEL STATEMENT: PGIII

SECTION 15: REGULATORY INFORMATION

US FEDERAL REGULATIONS

TSCA: This product is an FDA regulated device and not subject to TSCA regulations.
CERCLA: This product is an FDA regulated device and not subject to reporting requirements. There may be specific reporting requirements at the local, regional, or state level.
SARA 313 TOXIC CHEMICALS: The following components are subject to reporting levels established by SARA Title III, Section 313 (40 CFR 372): *Methylene Chloride, CAS NO. 75-09-2*.
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: 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

Carc.	Carcinogenicity
Eye Irrit.	Eye irritation
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H373	May cause damage to organs (Liver, Blood) through prolonged or repeated exposure if swallowed.
H373	May cause damage to organs (Central nervous system) through prolonged or repeated exposure if inhaled.
Skin Irrit.	Skin irritation
STOT RE	Specific target organ toxicity – repeated exposure
STOT SE	Specific target organ toxicity – single exposure

NFPA RATING

Health Hazard	2
Fire Hazard	0
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.