This SDS packet was issued with item:
070897306

N/A
Patterson Companies, Inc.

Patterson Alginate Tray Adhesive Aerosol Spray

Manufacturer MSDS Number: M0921880

SECTION 1 : Chemical Product and Company Identification

MSDS Name: Patterson Alginate Tray Adhesive Aerosol Spray
Manufacturer Name: Patterson Companies, Inc.
Address: 1031 Mendota Heights Road
St. Paul, MN 55120

Business Phone: 651-686-1600
Business Fax: 651-686-9331
For information in North America, call: 651-686-1600
For emergencies in the US, call CHEMTREC: 800-424-9300
Manufacturer MSDS Revision Date: 06/17/08

NFPA
Health: 2
Flammability: 4
Reactivity: 0
Other:
NFPA HAZARD RATING
4 - EXTREME
3 - HIGH
2 - MODERATE
1 - SLIGHT
0 - INsignificant

SECTION 2 : Hazardous Ingredients/Identity Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS#</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amide Resin Solution</td>
<td>108-88-3</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

OSHA PEL TWA: Not Applicable
ACGIH TLV TWA: 200 ppm

### SECTION 3: Physical And Chemical Characteristics

**Physical State/Appearance:**
- Clear liquid. Tacky

**Color:**
- Amber

**Odor:**
- Characteristic odor.

**Vapor Pressure:**
- 33 mg (Hg)

**Vapor Density:**
- \(\text{Air} = 1\) 2.01

**Boiling Point:**
- -44 to 180 deg F (-42 to 82 deg C)

**Solubility:**
- IN WATER: slightly soluble (adhesive)

**Specific Gravity:**
- \((\text{H}_2\text{O}=1)\): 0.84

---

**Chemical Name** | **CAS#** | **Percent**
--- | --- | ---
Isopropyl Alcohol | 67-63-0 | Not Applicable
OSHA PEL TWA: 400 ppm
ACGIH TLV TWA: 400 ppm

**Chemical Name** | **CAS#** | **Percent**
--- | --- | ---
Propellant | 68476-85-7 | Not Applicable
OSHA PEL TWA: 1000 ppm
ACGIH TLV TWA: 1000 ppm

**Chemical Name** | **CAS#** | **Percent**
--- | --- | ---
Toluene | 108-88-3 | Not Applicable
OSHA PEL TWA: 100 ppm
ACGIH TLV TWA: 100 ppm

---

Evaporation Point:
(Butyl Acetate = 1): Greater than 1

Flash Point:
-156 deg F (-104 deg ) for aerosol propellant

Upper Flammable Explosive Limit:
9.5

Lower Flammable Explosive Limit:
1.9

Pressure in can at 70 deg F (21 deg C) Approximately 50 p sig

SECTION 4: Fire And Explosion Hazards

Flash Point:
-156 deg F (-104 deg ) for aerosol propellant

Upper Flammable or Explosive Limit: 9.5
Lower Flammable or Explosive Limit: 1.9

Extinguishing Media:
Dry chemical, foam, or carbon dioxide. Water spray may be used to keep fire-exposed container cool.

Fire Fighting Instructions:
Wear full protective clothing and NIOSH-approved self-contained breathing apparatus.

NFPA
Health: 2
Flammability: 4
Reactivity: 0
Other:

Unusual Fire Hazards:
Vapor can flow along surfaces to distant ignition sources and flash back. Prevent spreading of vapor. Spray cans may explode if heated.

SECTION 5: Health Hazards

Applies to All Ingredients:
Potential Health Effects:
Eye Contact:
May cause irritation, defatting or dermatitis

Skin Contact:
Prolonged or repeated exposure may cause irritation, defatting or dermatitis
Inhalation:
Inhalation may cause respiratory irritation, dizziness, nausea, possible unconsciousness or asphyxiation.

Ingestion:
May cause abdominal discomfort, nausea, vomiting, or diarrhea.

Chronic Eye Contact:
May cause irritation, defatting or dermatitis

Chronic Skin Contact:
Prolonged or repeated exposure may cause irritation, defatting or dermatitis

Chronic Inhalation:
Inhalation may cause respiratory irritation, dizziness, nausea, possible unconsciousness or asphyxiation.

Chronic Ingestion:
May cause abdominal discomfort, nausea, vomiting, or diarrhea.

Carcinogenicity:
California Proposition 65 Warning: This product may contain a chemical known to the state of California to cause birth defects.

OSHA Designation: Not Applicable
NTP Designation: Not Applicable
IARC Designation: Not Applicable

OTHER REGULATORY INFORMATION:
California Proposition 65: This product may contain a chemical known to the state of California to cause birth defects.

SECTION 6: Emergency And First Aid Procedures
Eye Contact:
Wash eyes with plenty of water for at least 15 minutes. Call a physician.

Skin Contact:
Wash skin with soap and water. If irritation develops, get medical attention. Remove soaked clothing to avoid prolonged skin contact.

Inhalation:
Remove to fresh air. Resuscitate if necessary or use oxygen and see physician.

Ingestion:
Dilute by swallowing water, milk or eggwhite. Do not induce vomiting, see physician. Do not give fluids to unconscious person

SECTION 7: Reactivity Data
Stable at room temperature

Conditions to Avoid:
   Keep away from heat, spark, flame and strong oxidizers.

Hazardous Polymerization:
   Will not occur.
   CONDITIONS TO AVOID: Open flames, other ignition sources, strong oxidizing agents.

Hazardous Decomposition Products:
   Carbon dioxide, carbon monoxide, and toxic gases possible if thermally decomposed

SECTION 8: Precautions For Safe Handling

Spill Cleanup Measures:
   Absorb material and pick up with nonsparking tools. Place in sealed containers. Ventilate area.

Other Precautions:
   This product is for professional use only as stated in directions. It is the responsibility of the dentist to train personnel.

Storage:
   Store in a cool dry place. Keep tightly closed when not in use. Avoid sources of ignition, or heat. Do not store where temperature may exceed 120 deg F (49 deg C)

Hygiene Practices:
   Wash hands before smoking or eating.

Waste Disposal:
   Abide local, state and federal laws of disposal. Use conventional solvent waste receptacle. Avoid contamination of groundwater.

IATA:
   REGULATED IATA: Not Applicable
   LABEL: Flammable Gas

IATA Shipping Name:
   Aerosols, flammable

IATA Hazard Class:
   2.1

IATA UN Number: UN 1950
IATA Packing Group: Not Applicable

SECTION 9: Control Measures

Ventilation System:
   SPECIAL VENTILATION: As needed
   MECHANICAL (GENERAL) VENTILATION: None

Local Exhaust:
   As needed

Other Exhaust Information:
   Open window if necessary

Hand Protection Description:
   PROTECTION GLOVES: Use if needed, rubber or plastic gloves.

Eye/Face Protection:
   Use if needed, safety glasses with side shields

Respiratory Protection:
   Use NIOSH-approved respirators in case of high vapor concentration, with organic vapor cartridge.

Other Protective:
   Lab coat

WORK AND HYGIENIC PRACTICES: Wash hands before smoking or eating.

SECTION 10: Other Information

Applies to all ingredients:
OSHA 29 CFR 1200:
   This MSDS was prepared in accordance with the requirements of the OSHA Hazard Communication Standard (29CFR 1910.1200) and is to be used only for this product.

State:
   California Proposition 65: This product may contain a chemical known to the state of California to cause birth defects.

NFPA:
   Fire Hazard: 4
   Health: 2
   Reactivity: 0

MSDS Revision Date:
   06/17/08

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.

This MSDS was prepared in accordance with the requirements of the OSHA Hazard Communication Standard (29CFR 1910.1200) and is to be used only for this product. The information contained in this sheet is, to the best of our knowledge, believed to be accurate.

Health Index Ratings:
SEVERE HAZARD: 1
SERIOUS HAZARD: 2
MODERATE HAZARD: (3)
SLIGHT HAZARD: 4
MINIMUM HAZARD: 5

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SECTION 1: IDENTIFICATION

PRODUCT NAME: Patterson® Alginate Tray Adhesive
PRODUCT CODES: 070897306
IDENTIFIED USES: Dentistry
USES ADVISED AGAINST: Non-dental use
DISTRIBUTED BY: Patterson Companies, Inc.
ADDRESS: 1031 Mendota Heights Road
CITY, STATE, ZIP: Saint Paul, MN 55120
TELEPHONE: 800-328-5536
EMERGENCY: Chemtrec 1-800-424-9300
WEBSITE: www.pattersoncompanies.com

SECTION 2: HAZARDS IDENTIFICATION

CLASSIFICATION:
- Flammable gases (Category 1)
- Gases under pressure (Liquefied gas)
- Aspiration hazard (Category 2)
- Skin irritation (Category 2)
- Eye irritation (Category 2B)
- Specific target organ toxicity - single exposure (Category 3), Central nervous system
- Reproductive toxicity (Category 2)
- Specific target organ toxicity - repeated exposure (Category 2)
- Acute aquatic toxicity (Category 3)

LABELING:

PICTOGRAM:

SIGNAL WORD: Danger

HAZARD STATEMENTS:
- H220 Extremely flammable gas.
- H280 Contains gas under pressure; may explode if heated.
- H305 May be harmful if swallowed and enters airways.
- H315 Causes skin irritation.
- H320 Causes eye irritation.
- H336 May cause drowsiness or dizziness.
- H361 Suspected of damaging fertility or the unborn child
- H373 May cause damage to organs through prolonged or repeated exposure.
- H402 Harmful 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 Avoid release to the environment.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
- P301+P310 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 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).
SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>CAS NO.</th>
<th>%WT</th>
<th>OSHA PEL - TWA</th>
<th>ACGIH TLV - TWA</th>
<th>CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquefied Petroleum Gas</td>
<td>68476-85-7</td>
<td>15-25</td>
<td>1000 ppm</td>
<td>1000 ppm</td>
<td>Flam. Gas 1; Press. Gas; H220, H280</td>
</tr>
<tr>
<td>2-Propanol</td>
<td>67-63-0</td>
<td>20-30</td>
<td>400 ppm</td>
<td>200 ppm</td>
<td>Flam. Liq. 2; Eye Irrit. 2A; STOT SE 3; H225, H319, H336</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>5-10</td>
<td>200 ppm</td>
<td>20 ppm</td>
<td>Flam. Liq. 2; Skin Irrit. 2; Repr. 2; STOT SE 3; STOT RE 2; Asp. Tox. 1; Aquatic Acute 2; H225, H304, H315, H336, H361, H373, H401</td>
</tr>
</tbody>
</table>

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. Get medical attention immediately.
SKIN: Wash off with soap and plenty of water. Consult a physician.
EYE: Rinse thoroughly with plenty of water for at least 15 minutes. Get medical attention immediately.
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: Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon and nitrogen.
SPECIAL HAZARDS: Vapors are heavier than air and may travel to ignition source. Contains gas under pressure which may explode if heated.
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. Use explosion-proof equipment. 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.

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.
SAFETY DATA SHEET
NAME OF PRODUCT: Patterson® Alginate Tray Adhesive
FILE NO.: SDS7306
SDS DATE: 05/06/2015

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, amber liquid
ODOR: Characteristic
INITIAL BOILING POINT: -43.8°F (-42.1°C) (propane)
FLASH POINT: -155°F (-104°C) (propane)
EVAPORATION RATE (BuAc = 1.0): > 1.0
UPPER FLAMMABILITY LIMIT: 9.5 (propane)
LOWER FLAMMABILITY LIMIT: 2.1 (propane)
VAPOR PRESSURE: 6,300 mmHg @ 68°F (20°C) (propane)
VAPOR DENSITY (AIR=1.0): 2.01
RELATIVE DENSITY (H2O=1.0): 0.84 g/cm³
WATER SOLUBILITY: Slightly soluble
AUTO-IGNITION TEMPERATURE: 842°F (450°C) (propane)

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under recommended storage conditions.
HAZARDOUS REACTIONS: Vapors may form explosive mixture with air.
CONDITIONS TO AVOID: Heat, flames, sparks. Extremes of temperature and direct sunlight.
INCOMPATIBLE MATERIALS: Oxidizing agents, acid anhydrides, aluminum, halogenated compounds, acids.
HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon and nitrogen.

SECTION 11: TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS:
EYES: May cause serious 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: Harmful if swallowed. 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, watering of the eyes and asphyxiation.

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: 2-Propanol is identified as not classifiable as to its carcinogenicity to humans by IARC. Toluene is identified as not classifiable as to its carcinogenicity to humans by IARC.

REPRODUCTIVE TOXICITY: Toluene is a suspected human reproductive toxicant. Overexposure may cause reproductive disorders based on tests with laboratory animals.

SECTION 12: ECOLOGICAL INFORMATION
SAFETY DATA SHEET

NAME OF PRODUCT: Patterson® Alginate Tray Adhesive

ADVERSE EFFECTS: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life. Discharge into the environment must be avoided.

SECTION 13: DISPOSAL CONSIDERATIONS

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 INFORMATION

UN NUMBER: UN1950
PROPER SHIPPING NAME: Aerosols, flammable
HAZARD CLASS: 2.1
PACKING GROUP: N/A
LABEL STATEMENT: Flammable Gas

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): Toluene, CAS NO. 108-88-3; 2-Propanol, 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.

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

Aquatic Acute: Acute aquatic toxicity
Asp. Tox.: Aspiration hazard
Eye Irrit.: Eye irritation
Flam. Gas: Flammable gases
Flam. Liq.: Flammable liquids
H220: Extremely flammable gas.
H225: Highly flammable liquid and vapor.
H280: Contains gas under pressure; may explode if heated.
H304: May be fatal if swallowed and enters airways.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H336: May cause drowsiness or dizziness.
H361: Suspected of damaging fertility or the unborn child.
H373: May cause damage to organs through prolonged or repeated exposure.
NAME OF PRODUCT: Patterson® Alginate Tray Adhesive

H401  | Toxic to aquatic life.
Press. Gas | Gases under pressure
Repr. | Reproductive toxicity
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  4
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, Patterson Companies, Inc. 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.
SECTION 1: Identification

Product identifier
Product name: Patterson Alginate Tray Adhesive
Product code: 070897306

Recommended use of the product and restriction on use
Relevant identified uses: Dentistry
Uses advised against: Not determined or not applicable.
Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details
Manufacturer:
Supplier
Patterson Companies, Inc.
1031 Mendota Heights Road
St. Paul, MN 55120
1-800-328-5536 Fax:1-651-686-9331

Emergency telephone number:
United States
CHEMTREC
Within USA and Canada: 1-800-424-9300 (CHEMTREC, 24 hours)
Outside USA and Canada: +1-703-527-3887 (CHEMTREC, 24 hours)

SECTION 2: Hazard(s) identification

GHS classification:
Flammable gases, category 1
Liquified gases
Skin irritation, category 2
Eye irritation, category 2A
Reproductive toxicity, category 2
Specific target organ toxicity - single exposure, category 3, central nervous system
Acute aquatic hazard, category 3

Label elements

Signal word: Danger

Hazard statements:
H280 Contains gas under pressure; may explode if heated
H220 Extremely flammable gas
Safety Data Sheet

Initial preparation date: 11.21.2017

Patterson Alginate Tray Adhesive

H315 Causes skin irritation
H319 Causes serious eye irritation
H361 Suspected of damaging fertility or the unborn child
H336 May cause drowsiness or dizziness
H402 Harmful to aquatic life

Precautionary statements:
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking
P264 Wash skin thoroughly after handling
P280 Wear protective gloves/protective clothing/eye protection/face protection
P201 Obtain special instructions before use
P202 Do not handle until all safety precautions have been read and understood
P261 Avoid breathing dust/fume/gas/mist/vapors/spray
P271 Use only outdoors or in a well-ventilated area
P273 Avoid release to the environment
P377 Leaking gas fire. Do not extinguish unless leak can be stopped safely
P381 Eliminate all ignition sources if safe to do so
P321 Specific treatment (see supplemental first aid instructions on this label).
P362 Take off contaminated clothing and wash before reuse
P302+P352 If on skin: Wash with soap and water
P332+P313 If skin irritation occurs: Get medical advice/attention
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
P304+P340+P312 If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell
P410+P403 Protect from sunlight. Store in a well ventilated place
P405 Store locked up
P403+P233 Store in a well ventilated place. Keep container tightly closed
P501 Dispose of contents and container as instructed in Section 13

Hazards not otherwise classified: None

SECTION 3: Composition/information on ingredients

<table>
<thead>
<tr>
<th>Identification</th>
<th>Name</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 67-63-0</td>
<td>2-Proanol</td>
<td>20-30</td>
</tr>
<tr>
<td>CAS number: 68476-85-7</td>
<td>Liquefied Petroleum Gas</td>
<td>15-25</td>
</tr>
<tr>
<td>CAS number: 108-88-3</td>
<td>Toluene</td>
<td>5-10</td>
</tr>
</tbody>
</table>

Additional Information: None

SECTION 4: First aid measures

Description of first aid measures

General notes:
Not determined or not applicable.

After inhalation:
Loosen clothing as necessary and position individual in a comfortable position

Initial preparation date: 11.21.2017

Patterson Alginate Tray Adhesive

Maintain an unobstructed airway
Get medical advice/attention if you feel unwell

After skin contact:
Rinse affected area with soap and water
If symptoms develop or persist, seek medical attention
Take off all contaminated clothing
Gently blot or brush away excess product
Wash with plenty of lukewarm, gently flowing water
Get medical advice if skin irritation occurs or you feel unwell

After eye contact:
Rinse/flush exposed eye(s) gently using water for 15-20 minutes
If symptoms develop or persist, seek medical attention
Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open
Remove contact lenses, if present and easy to do so
Continue rinsing for 15-20 minutes
Get medical advice if eye irritation persists

After swallowing:
Rinse mouth thoroughly
Seek medical attention if irritation, discomfort, or vomiting persists

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:
Not determined or not applicable.

Delayed symptoms and effects:
Not determined or not applicable.

Immediate medical attention and special treatment

Specific treatment:
Not determined or not applicable.

Notes for the doctor:
Not determined or not applicable.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media:
Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition

Unsuitable extinguishing media:
Not determined or not applicable.

Specific hazards during fire-fighting:
Thermal decomposition can lead to release of irritating gases and vapors
Contents under pressure
In a fire or if heated, a pressure increase will occur and the container may burst or explode

Special protective equipment for firefighters:
Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

Special precautions:
Shut off sources of ignition
Carbon monoxide and carbon dioxide may form upon combustion
Heating causes a rise in pressure, risk of bursting and combustion
### SECTION 6: Accidental release measures

**Personal precautions, protective equipment and emergency procedures:**
- Ensure adequate ventilation
- Ensure air handling systems are operational
- Wear protective eye wear, gloves and clothing

**Environmental precautions:**
- Should not be released into the environment
- Prevent from reaching drains, sewer or waterway

**Methods and material for containment and cleaning up:**
- Wear protective eye wear, gloves and clothing
- Absorb with non-combustible liquid-binding material (sand, diatomaceus earth (clay), acid binders, universal binders)
- Dispose of contents / container in accordance with local regulations

**Reference to other sections:**
- Not determined or not applicable.

### SECTION 7: Handling and storage

**Precautions for safe handling:**
- Use only with adequate ventilation.
- Avoid breathing mist or vapor.
- Do not eat, drink, smoke or use personal products when handling chemical substances.
- Do not puncture, crush, or incinerate containers, even when empty.
- Protect cylinders from physical damage.

**Conditions for safe storage, including any incompatibilities:**
- Protect from freezing and physical damage.
- Protect from direct sunlight.
- Store in a cool, well-ventilated area.
- Store cylinders upright.
- Store away from all ignition sources (open flames, hot surfaces, direct sunlight, spark sources).

### SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

**Occupational Exposure limit values:**

<table>
<thead>
<tr>
<th>Country (Legal Basis)</th>
<th>Substance</th>
<th>Identifier</th>
<th>Permissible concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>NIOSH</td>
<td>Liquefied Petroleum Gas</td>
<td>68476-85-7</td>
<td>8 hr Time Weighted Avg (TWA):1000 ppm</td>
</tr>
<tr>
<td></td>
<td>Toluene</td>
<td>108-88-3</td>
<td>NIOSH TWA 375.0 mg/m³; 100 ppm</td>
</tr>
<tr>
<td></td>
<td>Liquefied Petroleum Gas</td>
<td>68476-85-7</td>
<td>8 hr Time Weighted Avg (TWA):1800 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Toluene</td>
<td>108-88-3</td>
<td>NIOSH STEL 560 mg/m³; 150 ppm</td>
</tr>
<tr>
<td></td>
<td>2-Proanol</td>
<td>67-63-0</td>
<td>NIOSH IDLH 2,000 ppm</td>
</tr>
<tr>
<td></td>
<td>2-Proanol</td>
<td>67-63-0</td>
<td>NIOSH STEL 500 ppm, 1,225 mg/m³</td>
</tr>
<tr>
<td></td>
<td>2-Proanol</td>
<td>67-63-0</td>
<td>NIOSH TWA 400 ppm, 980 mg/m³</td>
</tr>
<tr>
<td>ACGIH</td>
<td>Toluene</td>
<td>108-88-3</td>
<td>ACGIH TWA 20ppm</td>
</tr>
<tr>
<td></td>
<td>2-Proanol</td>
<td>67-63-0</td>
<td>ACGIH TLV STEL 400 ppm</td>
</tr>
</tbody>
</table>
### Patterson Alginate Tray Adhesive

<table>
<thead>
<tr>
<th>Country (Legal Basis)</th>
<th>Substance</th>
<th>Identifier</th>
<th>Permissible concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2-Proanol</td>
<td>67-63-0</td>
<td>ACGIH TLV TWA 200 ppm</td>
</tr>
<tr>
<td>United States (OSHA)</td>
<td>Liquefied Petroleum Gas</td>
<td>68476-85-7</td>
<td>8 hr Time Weighted Avg (TWA): 1000 ppm</td>
</tr>
<tr>
<td></td>
<td>Liquefied Petroleum Gas</td>
<td>68476-85-7</td>
<td>8 hr Time Weighted Avg (TWA): 1800 mg/3</td>
</tr>
<tr>
<td></td>
<td>Toluene</td>
<td>108-88-3</td>
<td>OSHA PEL 300 ppm Ceiling</td>
</tr>
<tr>
<td></td>
<td>Toluene</td>
<td>108-88-3</td>
<td>OSHA PEL TWA 200 ppm</td>
</tr>
<tr>
<td></td>
<td>2-Proanol</td>
<td>67-63-0</td>
<td>OSHA PEL TWA 400 ppm, 980 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Toluene</td>
<td>108-88-3</td>
<td>OSHA PEL 500 ppm Peak (10 mins)</td>
</tr>
</tbody>
</table>

### Biological limit values:

<table>
<thead>
<tr>
<th>Substance</th>
<th>Identifier</th>
<th>Determinant</th>
<th>Sampling time</th>
<th>Permissible limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Proanol</td>
<td>67-63-0</td>
<td>Acetone</td>
<td>End of shift at end of workweek.</td>
<td>40 mg/L</td>
</tr>
</tbody>
</table>

### Information on monitoring procedures:

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. Biological monitoring may also be appropriate for some substances.

### Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

### Personal protection equipment

**Eye and face protection:**
Safety goggles or glasses, or appropriate eye protection.

**Skin and body protection:**
Select glove material impermeable and resistant to the substance.
Wear appropriate clothing to prevent any possibility of skin contact.

**Respiratory protection:**
If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

### General hygienic measures:
Avoid contact with skin, eyes and clothing.
Wash hands before breaks and at the end of work.
Wash contaminated clothing before reuse.

### SECTION 9: Physical and chemical properties

#### Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Clear, amber liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odor</td>
<td>Characteristic</td>
</tr>
</tbody>
</table>
Odor threshold | Not determined or not available.
--- | ---
pH | Not determined or not available.
Melting point/freezing point | Not determined or not available.
Initial boiling point/range | -48°F (-42.1°C)
Flash point (closed cup) | -115°F (-104°C)
Evaporation rate | > 1.0
Flammability (solid, gas) | Not determined or not available.
Upper flammability/explosive limit | 9.5
Lower flammability/explosive limit | 2.1
Vapor pressure | 6,300 mmHg at 68°F (20°C)
Vapor density | Not determined or not available.
Density | 2.01
Relative density | 0.84 g/cm³
Solubilities | Slight soluble.
Partition coefficient (n-octanol/water) | Not determined or not available.
Auto/Self-ignition temperature | 842°F (450°C)
Decomposition temperature | Not determined or not available.
Dynamic viscosity | Not determined or not available.
Kinematic viscosity | Not determined or not available.
Explosive properties | Not determined or not available.
Oxidizing properties | Not determined or not available.

SECTION 10: Stability and reactivity

Reactivity:
Does not react under normal conditions of use and storage.

Chemical stability:
Stable under normal conditions of use and storage.

Possibility of hazardous reactions:
None under normal conditions of use and storage.

Conditions to avoid:
None known.

Incompatible materials:
None known.

Hazardous decomposition products:
None known.

SECTION 11: Toxicological information

Acute toxicity
Assessment: Based on available data, the classification criteria are not met.
Product data: No data available.
Substance data: No data available.

Skin corrosion/irritation
Assessment: Causes skin irritation.

Initial preparation date: 11.21.2017

**Patterson Alginate Tray Adhesive**

**Product data:**
No data available.

**Substance data:**

<table>
<thead>
<tr>
<th>Name</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene</td>
<td>Irritating to the skin.</td>
</tr>
</tbody>
</table>

**Serious eye damage/irritation**

**Assessment:** Causes serious eye irritation

**Product data:**
No data available.

**Substance data:**

<table>
<thead>
<tr>
<th>Name</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Proanol</td>
<td>Causes serious eye irritation.</td>
</tr>
</tbody>
</table>

**Respiratory or skin sensitization**

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**
No data available.

**Substance data:** No data available.

**Carcinogenicity**

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

**International Agency for Research on Cancer (IARC):**

<table>
<thead>
<tr>
<th>Name</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Proanol</td>
<td>Group 3 - Not classifiable as to its carcinogenicity to humans</td>
</tr>
<tr>
<td>Toluene</td>
<td>Group 3 - Not classifiable as to its carcinogenicity to humans</td>
</tr>
</tbody>
</table>

**National Toxicology Program (NTP):** None of the ingredients are listed.

**Germ cell mutagenicity**

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**
No data available.

**Substance data:** No data available.

**Reproductive toxicity**

**Assessment:** Suspected of damaging fertility or the unborn child

**Product data:**
No data available.

**Substance data:**

<table>
<thead>
<tr>
<th>Name</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene</td>
<td>Suspected of damaging fertility or the unborn child.</td>
</tr>
</tbody>
</table>
Specific target organ toxicity (repeated exposure)

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**
No data available.

**Substance data:** No data available.

**Aspiration toxicity**

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**
No data available.

**Substance data:** No data available.

**Information on likely routes of exposure:**
No data available.

**Symptoms related to the physical, chemical and toxicological characteristics:**
No data available.

**Other information:**
No data available.

### SECTION 12: Ecological information

**Acute (short-term) toxicity**

**Assessment:** Harmful to aquatic life

**Product data:** No data available.

**Substance data:** No data available.

**Chronic (long-term) toxicity**

**Product data:** No data available.

**Substance data:** No data available.

**Persistence and degradability**

**Product data:** No data available.

**Substance data:** No data available.

**Bioaccumulative potential**

**Product data:** No data available.

**Substance data:** No data available.

**Mobility in soil**

**Product data:** No data available.

**Substance data:** No data available.

**Other adverse effects:** No data available.

### SECTION 13: Disposal considerations

**Disposal methods:**
It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities

### SECTION 14: Transport information

**United States Transportation of dangerous goods (49 CFR DOT)**
# Patterson Alginate Tray Adhesive

## SECTION 15: Regulatory information

**United States regulations**

- **Inventory listing (TSCA):** This product is an FDA regulated device and not subject to TSCA regulations.
- **Significant New Use Rule (TSCA Section 5):** Not determined.
- **Export notification under TSCA Section 12(b):** Not determined.
- **SARA Section 302 extremely hazardous substances:** Not determined.
- **SARA Section 313 toxic chemicals:**

<table>
<thead>
<tr>
<th>UN number</th>
<th>Chemical Name</th>
<th>Listed</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-63-0</td>
<td>2-Proanol</td>
<td>Listed</td>
</tr>
<tr>
<td>108-88-3</td>
<td>Toluene</td>
<td>Listed</td>
</tr>
</tbody>
</table>

- **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.

- **RCRA:**

<table>
<thead>
<tr>
<th>UN number</th>
<th>Chemical Name</th>
<th>Listed</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>108-88-3</td>
<td>Toluene</td>
<td>Listed</td>
<td>U220</td>
</tr>
</tbody>
</table>

- **Section 112(r) of the Clean Air Act (CAA):** Not determined.

- **Massachusetts Right to Know:**

<table>
<thead>
<tr>
<th>UN number</th>
<th>Chemical Name</th>
<th>Listed</th>
</tr>
</thead>
<tbody>
<tr>
<td>68476-85-7</td>
<td>Liquefied Petroleum Gas</td>
<td>Listed</td>
</tr>
</tbody>
</table>
**Safety Data Sheet**


**Initial preparation date:** 11.21.2017

---

**Patterson Alginate Tray Adhesive**

<table>
<thead>
<tr>
<th>CAS Number</th>
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<tbody>
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<td>Toluene</td>
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</tbody>
</table>

**New Jersey Right to Know:**

<table>
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<tbody>
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<td>Toluene</td>
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</tbody>
</table>

**New York Right to Know:**

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</tr>
</thead>
<tbody>
<tr>
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<td>Listed</td>
</tr>
<tr>
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<td>2-Proanol</td>
<td>Listed</td>
</tr>
<tr>
<td>108-88-3</td>
<td>Toluene</td>
<td>Listed</td>
</tr>
</tbody>
</table>

**Pennsylvania Right to Know:**

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>Listed</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Listed</td>
</tr>
<tr>
<td>67-63-0</td>
<td>2-Proanol</td>
<td>Listed</td>
</tr>
<tr>
<td>108-88-3</td>
<td>Toluene</td>
<td>Listed</td>
</tr>
</tbody>
</table>

**California Proposition 65:**

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>108-88-3</td>
<td>Toluene</td>
</tr>
</tbody>
</table>

---

**SECTION 16: Other information**

**Abbreviations and Acronyms:** None

**Disclaimer:**

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

**NFPA:** 2-4-0

**HMIS:** 2-4-0

**Initial preparation date:** 11.21.2017

**End of Safety Data Sheet**
SECTION 1: Identification

Product identifier

Product name: Patterson Alginate Tray Adhesive
Product code: 070897306

Recommended use of the product and restriction on use

Relevant identified uses: Dentistry
Uses advised against: Not determined or not applicable.
Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details

Manufacturer:
Supplier
Patterson Dentaire Canada Inc.
1205 boul Henri-Bourassa West
Montreal (Québec) H3M 3E6
+1 514-745-4040

Emergency telephone number:

Canada
CHEMTREC
Within USA and Canada: 1-800-424-9300 (CHEMTREC, 24 hours)
Outside USA and Canada: +1-703-527-3887 (CHEMTREC, 24 hours)

SECTION 2: Hazard identification

GHS classification:

Flammable gases, category 1
Liquified gases
Skin irritation, category 2
Eye irritation, category 2A
Reproductive toxicity, category 2
Specific target organ toxicity - single exposure, category 3, central nervous system
Acute aquatic hazard, category 3

Label elements

Hazard pictograms:

Signal word: Danger

Hazard statements:
Patterson Alginate Tray Adhesive

H280 Contains gas under pressure; may explode if heated
H220 Extremely flammable gas
H315 Causes skin irritation
H319 Causes serious eye irritation
H361 Suspected of damaging fertility or the unborn child
H336 May cause drowsiness or dizziness
H402 Harmful to aquatic life

Precautionary statements:
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking
P264 Wash skin thoroughly after handling
P280 Wear protective gloves/protective clothing/eye protection/face protection
P201 Obtain special instructions before use
P202 Do not handle until all safety precautions have been read and understood
P261 Avoid breathing dust/fume/gas/mist/vapors/spray
P271 Use only outdoors or in a well-ventilated area
P273 Avoid release to the environment
P377 Leaking gas fire. Do not extinguish unless leak can be stopped safely
P381 Eliminate all ignition sources if safe to do so
P321 Specific treatment (see supplemental first aid instructions on this label).
P362 Avoid breathing dust/fume/gas/mist/vapors/spray
P273 Avoid release to the environment
P201 Obtain special instructions before use
P202 Do not handle until all safety precautions have been read and understood
P261 Avoid breathing dust/fume/gas/mist/vapors/spray
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P271 Use only outdoors or in a well-ventilated area
P273 Avoid release to the environment
P377 Leaking gas fire. Do not extinguish unless leak can be stopped safely
P381 Eliminate all ignition sources if safe to do so
P321 Specific treatment (see supplemental first aid instructions on this label).
P362 Avoid breathing dust/fume/gas/mist/vapors/spray

Hazards not otherwise classified: None

SECTION 3: Composition/information on ingredients

<table>
<thead>
<tr>
<th>Identification</th>
<th>Name</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 67-63-0</td>
<td>2-Proanol</td>
<td>20-30</td>
</tr>
<tr>
<td>CAS number: 68476-85-7</td>
<td>Liquefied Petroleum Gas</td>
<td>15-25</td>
</tr>
<tr>
<td>CAS number: 108-88-3</td>
<td>Toluene</td>
<td>5-10</td>
</tr>
</tbody>
</table>

Additional Information: None

SECTION 4: First-aid measures

Description of first-aid measures
General notes:
Not determined or not available.

**After inhalation:**
Loosen clothing as necessary and position individual in a comfortable position
Maintain an unobstructed airway
Get medical advice/attention if you feel unwell

**After skin contact:**
Rinse affected area with soap and water
If symptoms develop or persist, seek medical attention
Take off all contaminated clothing
Gently blot or brush away excess product
Wash with plenty of lukewarm, gently flowing water
Get medical advice if skin irritation occurs or you feel unwell

**After eye contact:**
Rinse/flush exposed eye(s) gently using water for 15-20 minutes
If symptoms develop or persist, seek medical attention
Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open
Remove contact lenses, if present and easy to do so
Continue rinsing for 15-20 minutes
Get medical advice if eye irritation persists

**After ingestion:**
Rinse mouth thoroughly
Seek medical attention if irritation, discomfort, or vomiting persists

**Most important symptoms and effects, both acute and delayed**

**Acute symptoms and effects:**
Not determined or not available.

**Delayed symptoms and effects:**
Not determined or not available.

**Immediate medical attention and special treatment**

**Specific treatment:**
Not determined or not available.

**Notes for the doctor:**
Not determined or not available.

**SECTION 5: Fire-fighting measures**

**Extinguishing media**

**Suitable extinguishing media:**
Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition

**Unsuitable extinguishing media:**
Not determined or not applicable.

**Specific hazards during fire-fighting:**
Thermal decomposition can lead to release of irritating gases and vapors
Contents under pressure
In a fire or if heated, a pressure increase will occur and the container may burst or explode
**Patterson Alginate Tray Adhesive**

**Special protective equipment for firefighters:**
- Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

**Special precautions:**
- Shut off sources of ignition
- Carbon monoxide and carbon dioxide may form upon combustion
- Heating causes a rise in pressure, risk of bursting and combustion

**SECTION 6: Accidental release measures**

**Personal precautions, protective equipment and emergency procedures:**
- Ensure adequate ventilation
- Ensure air handling systems are operational
- Wear protective eye wear, gloves and clothing

**Environmental precautions:**
- Should not be released into the environment
- Prevent from reaching drains, sewer or waterway

**Methods and material for containment and cleaning up:**
- Wear protective eye wear, gloves and clothing
- Absorb with non-combustible liquid-binding material (sand, diatomaceous earth (clay), acid binders, universal binders)
- Dispose of contents / container in accordance with local regulations

**Reference to other sections:**
- Not determined or not applicable

**SECTION 7: Handling and storage**

**Precautions for safe handling:**
- Use only with adequate ventilation.
- Avoid breathing mist or vapor.
- Do not eat, drink, smoke or use personal products when handling chemical substances.
- Do not puncture, crush, or incinerate containers, even when empty.
- Protect cylinders from physical damage.

**Conditions for safe storage, including any incompatibilities:**
- Protect from freezing and physical damage.
- Protect from direct sunlight.
- Store in a cool, well-ventilated area.
- Store cylinders upright.
- Store away from all ignition sources (open flames, hot surfaces, direct sunlight, spark sources).

**SECTION 8: Exposure controls/personal protection**

Only those substances with limit values have been included below.

**Occupational Exposure limit values:**

<table>
<thead>
<tr>
<th>Country (Legal Basis)</th>
<th>Substance</th>
<th>Identifier</th>
<th>Permissible concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canada</td>
<td>2-Proanol</td>
<td>67-63-0</td>
<td>Alberta TWA 8-hr: 492 mg/m³ (200 ppm); STEL 15-min: 984 mg/m³ (400 ppm)</td>
</tr>
</tbody>
</table>
## Patterson Alginate Tray Adhesive

<table>
<thead>
<tr>
<th>Country (Legal Basis)</th>
<th>Substance</th>
<th>Identifier</th>
<th>Permissible concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanol</td>
<td>67-63-0</td>
<td>British Columbia TWA 8-hr: 200 ppm; STEL 15-min 400 ppm</td>
<td></td>
</tr>
<tr>
<td>2-Propanol</td>
<td>67-63-0</td>
<td>Manitoba TLV-TWA 8-hr: 200 ppm; STEL 15-min 400 ppm</td>
<td></td>
</tr>
<tr>
<td>2-Propanol</td>
<td>67-63-0</td>
<td>Ontario TWA 8-hr: 200 ppm; STEL 15-min: 400 ppm</td>
<td></td>
</tr>
<tr>
<td>2-Propanol</td>
<td>67-63-0</td>
<td>Quebec TWA 8-hr: 983 mg/m³ (400 ppm); STEL 15-min: 1,230 mg/m³ (500 ppm)</td>
<td></td>
</tr>
<tr>
<td>2-Propanol</td>
<td>67-63-0</td>
<td>Saskatchewan TWA 8-hr: 200 ppm; STEL 15-min: 400 ppm</td>
<td></td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>Alberta OELs - 8-Hour TWA Exposure Limit: 50 ppm (188 mg/m³)</td>
<td></td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>British Columbia OELs - 8-Hour TWA Exposure Value: 20 ppm</td>
<td></td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>Manitoba OELs - 8-Hour Exposure Limit (TLV-TWA): 20 ppm</td>
<td></td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>Ontario OELs - 8-Hour TWA Exposure Value: 20 ppm</td>
<td></td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>Quebec OELs - 8-Hour TWA Exposure Value: 50 ppm (188 mg/m³)</td>
<td></td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>Saskatchewan OELs - 8 Hour Average Contamination Limit: 50 ppm</td>
<td></td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>Saskatchewan OELs - 15 Minute Average Contamination Limit: 60 ppm</td>
<td></td>
</tr>
</tbody>
</table>

### Biological limit values:

<table>
<thead>
<tr>
<th>Substance</th>
<th>Identifier</th>
<th>Determinant</th>
<th>Sampling time</th>
<th>Permissible limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanol</td>
<td>67-63-0</td>
<td>Acetone</td>
<td>End of shift at end of workweek.</td>
<td>40 mg/L</td>
</tr>
</tbody>
</table>

### Information on monitoring procedures:

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. Biological monitoring may also be appropriate for some substances.

### Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

### Personal protection equipment

#### Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

#### Skin and body protection:
Select glove material impermeable and resistant to the substance. Wear appropriate clothing to prevent any possibility of skin contact.

**Respiratory protection:**
If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

**General hygienic measures:**
Avoid contact with skin, eyes and clothing. Wash hands before breaks and at the end of work. Wash contaminated clothing before reuse.

---

**SECTION 9: Physical and chemical properties**

**Information on basic physical and chemical properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance (physical state, color):</td>
<td>Clear, amber liquid</td>
</tr>
<tr>
<td>Odor:</td>
<td>Characteristic</td>
</tr>
<tr>
<td>Odor threshold:</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>pH-value:</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Melting/Freezing point:</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Boiling point/range:</td>
<td>-48°F (-42.1°C)</td>
</tr>
<tr>
<td>Flash point:</td>
<td>-115°F (-104°C)</td>
</tr>
<tr>
<td>Evaporation rate:</td>
<td>&gt; 1.0</td>
</tr>
<tr>
<td>Flammability (solid, gaseous):</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Explosion limit upper:</td>
<td>9.5</td>
</tr>
<tr>
<td>Explosion limit lower:</td>
<td>2.1</td>
</tr>
<tr>
<td>Vapor pressure:</td>
<td>6,300 mmHg ar 68°F (20°C)</td>
</tr>
<tr>
<td>Vapor density:</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Density:</td>
<td>2.01</td>
</tr>
<tr>
<td>Relative density:</td>
<td>0.84 g/cm³</td>
</tr>
<tr>
<td>Solubilities:</td>
<td>Slight soluble.</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water):</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Auto/Self-ignition temperature:</td>
<td>842°F (450°C)</td>
</tr>
<tr>
<td>Decomposition temperature:</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Dynamic viscosity:</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Kinematic viscosity:</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>Not determined or not available.</td>
</tr>
</tbody>
</table>

**Other information**

---

**SECTION 10: Stability and reactivity**

**Reactivity:**
Does not react under normal conditions of use and storage.

**Chemical stability:**
Patterson Alginate Tray Adhesive

Stable under normal conditions of use and storage.

Possibility of hazardous reactions:
None under normal conditions of use and storage.

Conditions to avoid:
None known.

Incompatible materials:
None known.

Hazardous decomposition products:
None known.

SECTION 11: Toxicological information

Acute toxicity
Assessment: Based on available data, the classification criteria are not met.
Product data: No data available.
Substance data: No data available.

Skin corrosion/irritation
Assessment: Causes skin irritation
Product data: No data available.
Substance data:

<table>
<thead>
<tr>
<th>Name</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene</td>
<td>Irritating to the skin.</td>
</tr>
</tbody>
</table>

Serious eye damage/irritation
Assessment: Causes serious eye irritation
Product data: No data available.
Substance data:

<table>
<thead>
<tr>
<th>Name</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Proanol</td>
<td>Causes serious eye irritation.</td>
</tr>
</tbody>
</table>

Respiratory or skin sensitization
Assessment: Based on available data, the classification criteria are not met.
Product data: No data available.
Substance data: No data available.

Carcinogenicity
Assessment: Based on available data, the classification criteria are not met.
Product data: No data available.
Substance data: No data available.

International Agency for Research on Cancer (IARC):

<table>
<thead>
<tr>
<th>Name</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Proanol</td>
<td>Group 3 - Not classifiable as to its carcinogenicity to humans</td>
</tr>
<tr>
<td>Toluene</td>
<td>Group 3 - Not classifiable as to its carcinogenicity to humans</td>
</tr>
</tbody>
</table>
National Toxicology Program (NTP): None of the ingredients are listed.

Germ cell mutagenicity
Assessment: Based on available data, the classification criteria are not met.
Product data:
No data available.
Substance data: No data available.

Reproductive toxicity
Assessment: Suspected of damaging fertility or the unborn child
Product data:
No data available.
Substance data:

<table>
<thead>
<tr>
<th>Name</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene</td>
<td>Suspected of damaging fertility or the unborn child.</td>
</tr>
</tbody>
</table>

Specific target organ toxicity (single exposure)
Assessment: May cause drowsiness or dizziness
Product data:
No data available.
Substance data:

<table>
<thead>
<tr>
<th>Name</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanol</td>
<td>Specific Target Organ Toxicity, Single Exposure - May cause drowsiness or dizziness.</td>
</tr>
<tr>
<td>Toluene</td>
<td>Component affects the central nervous system.</td>
</tr>
</tbody>
</table>

Specific target organ toxicity (repeated exposure)
Assessment: Based on available data, the classification criteria are not met.
Product data:
No data available.
Substance data: No data available.

Aspiration toxicity
Assessment: Based on available data, the classification criteria are not met.
Product data:
No data available.
Substance data: No data available.

Information on likely routes of exposure:
No data available.

Symptoms related to the physical, chemical and toxicological characteristics:
No data available.

Other information:
No data available.

SECTION 12: Ecological information

Acute (short-term) toxicity
Assessment: Harmful to aquatic life
Product data: No data available.
Substance data: No data available.
Chronic (long-term) toxicity
Product data: No data available.
Substance data: No data available.

Persistence and degradability
Product data: No data available.
Substance data: No data available.

Bioaccumulative potential
Product data: No data available.
Substance data: No data available.

Mobility in soil
Product data: No data available.
Substance data: No data available.

Other adverse effects: No data available.

SECTION 13: Disposal considerations

Disposal methods:
It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities.

SECTION 14: Transport information

Canadian Transportation of Dangerous Goods (TDG)

<table>
<thead>
<tr>
<th>UN number</th>
<th>UN1950</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN proper shipping name</td>
<td>Aerosols, Flammable</td>
</tr>
<tr>
<td>UN transport hazard class(es)</td>
<td>2.1</td>
</tr>
<tr>
<td>Packing group</td>
<td>None</td>
</tr>
<tr>
<td>Environmental hazards</td>
<td>None</td>
</tr>
<tr>
<td>Special precautions for user</td>
<td>None</td>
</tr>
</tbody>
</table>

International Maritime Dangerous Goods (IMDG)

<table>
<thead>
<tr>
<th>UN number</th>
<th>UN1950</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN proper shipping name</td>
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</tr>
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<td>UN transport hazard class(es)</td>
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</tr>
<tr>
<td>Packing group</td>
<td>None</td>
</tr>
<tr>
<td>Environmental hazards</td>
<td>None</td>
</tr>
<tr>
<td>Special precautions for user</td>
<td>None</td>
</tr>
</tbody>
</table>

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

<table>
<thead>
<tr>
<th>UN number</th>
<th>UN1950</th>
</tr>
</thead>
</table>

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Patterson Alginate Tray Adhesive

<table>
<thead>
<tr>
<th>UN proper shipping name</th>
<th>Aerosols, Flammable</th>
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<tbody>
<tr>
<td>UN transport hazard class(es)</td>
<td>2.1</td>
</tr>
<tr>
<td>Packing group</td>
<td>None</td>
</tr>
<tr>
<td>Environmental hazards</td>
<td>None</td>
</tr>
<tr>
<td>Special precautions for user</td>
<td>None</td>
</tr>
</tbody>
</table>

SECTION 15: Regulatory information

Canada regulations

Domestic substances list (DSL): This product is an FDA regulated device and not subject to chemical notification requirements.

Non-domestic substances list (NDSL): Not determined.

SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:
This product has been classified in accordance with the Canadian Hazardous Products Regulations and WHMIS 2015. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

NFPA: 2-4-0
HMIS: 2-4-0
Initial preparation date: 11.21.2017

End of Safety Data Sheet