

## **SAFETY DATA SHEETS**

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

070830208

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

070830083 070830109 070830117 070830125 070830141 070830158 070830166 070830182 070830190 070830224  
070830232 070830240 070830265 070830273 070830281 070830307 070830315 070830323 070900209 070900217  
070900225 070900241 070900258 070900266 070900282 070900290 070900308 070900324 070900332 070900340  
070900365 070900373 070900381 070900407 070900415 070900423 074378089 074378097 074378105 074378345  
074378352 074378360 074378378 074378386 074378394 074390118 074390126 074390142 074390159 074390175  
074390183 074390209 074390217 074390233 074390241 074390266 074390274 074390407 074390464 074390472  
074390522 074390530

**The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).**

070900183



## Safety Data Sheet

According to Canadian Hazardous Products Regulations and WHMIS 2015

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### Patterson Admix Alloy Capsules (Mercury)

#### SECTION 1: Identification

##### Product identifier

**Product name:** Patterson Admix Alloy Capsules (Mercury)

**Product code:** 070830083 070830109 070830117 070830125

070830141 070830158 070830166 070830182 070830190 070830208

070830224 070830232 070830240 070830265 070830273 070830281

070830307 070830315 070830323 074390381 074390399 074390407

074390456 074390464 074390472

**Additional information:** 074390514 074390522 074390530 070900183

070900209 070900217 070900225 070900241 070900258 070900266

070900282 070900290 070900308 070900324 070900332 070900340

070900365 070900373 070900415 070900423 074378089 074378097

074378105 074378345 074378352 074378360 074378378 074378386

074378394 074390118 074390126 074390142 074390159 074390175

074390183 074390209 074390217 074390233 074390241 074390266

074390274 070900183 070900209 070900217 070900225 070900241

070900258 070900266 070900282 070900290

##### Recommended use of the product and restriction on use

**Relevant identified uses:** Dental professional use: For filling of cavitated teeth by dental professionals.

**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:

Acute toxicity (inhalation), category 1

Specific target organ toxicity - repeated exposure, category 1

Reproductive toxicity, category 2

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## Patterson Admix Alloy Capsules (Mercury)

Acute aquatic hazard, category 1  
Chronic aquatic hazard, category 1

### Label elements

#### Hazard pictograms:



**Signal word:** Danger

#### Hazard statements:

H330 Fatal if inhaled  
H372 Causes damage to organs through prolonged or repeated exposure  
H361 Suspected of damaging fertility or the unborn child  
H400 Very toxic to aquatic life  
H410 Very toxic to aquatic life with long lasting effects

#### Precautionary statements:

P260 Do not breathe dust/fume/gas/mist/vapors/spray  
P271 Use only outdoors or in a well-ventilated area  
P284 Wear respiratory protection  
P264 Wash skin thoroughly after handling  
P270 Do not eat, drink or smoke when using this product  
P201 Obtain special instructions before use  
P202 Do not handle until all safety precautions have been read and understood  
P281 Use personal protective equipment as required  
P273 Avoid release to the environment  
P320 Specific treatment is urgent (see ... on this label)  
P304+P340+P310 If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician  
P308+P313 If exposed or concerned: Get medical advice/attention  
P391 Collect spillage  
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

| Identification           | Name                                        | Weight % |
|--------------------------|---------------------------------------------|----------|
| CAS number:<br>7439-97-6 | Mercury, metallic (40-50% of total product) | 100      |

**Additional Information:** None

## SECTION 4: First-aid measures

### Description of first-aid measures

#### General notes:

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### Patterson Admix Alloy Capsules (Mercury)

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  
Take precautions to ensure your own safety  
Remove source of exposure or move person to fresh air and keep comfortable for breathing  
Immediately call a POISON CONTROL CENTER or seek medical attention  
If breathing has stopped, trained personnel should begin rescue breathing  
Avoid mouth-to-mouth contact by using a barrier device  
If the heart has stopped, immediately start cardiopulmonary resuscitation (CPR)

#### After skin contact:

Rinse affected area with soap and water  
If symptoms develop or persist, seek medical attention

#### After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes  
If symptoms develop or persist, seek medical attention

#### 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

#### Special protective equipment for firefighters:

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

#### Special precautions:

Not determined or not applicable.

### SECTION 6: Accidental release measures

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### Patterson Admix Alloy Capsules (Mercury)

#### 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.

#### Conditions for safe storage, including any incompatibilities:

- Keep container tightly sealed.
- Protect from freezing and physical damage.
- Store in a cool, well-ventilated area.

### SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

#### Occupational Exposure limit values:

- No occupational exposure limits noted for the ingredient(s).

#### Biological limit values:

- No biological exposure limits noted for the ingredient(s).

#### 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.

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### Patterson Admix Alloy Capsules (Mercury)

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

|                                                 |                                                                                                                                                                               |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Appearance (physical state, color):</b>      | Silver alloy powder and mercury in separate compartments of a plastic capsule. Silver alloy - grey fine metallic powder. Mercury - Silver-white heavy liquid metal. Odourless |
| <b>Odor:</b>                                    | Not determined or not available.                                                                                                                                              |
| <b>Odor threshold:</b>                          | Not determined or not available.                                                                                                                                              |
| <b>pH-value:</b>                                | Not determined or not available.                                                                                                                                              |
| <b>Melting/Freezing point:</b>                  | -38.9°C                                                                                                                                                                       |
| <b>Boiling point/range:</b>                     | (Mercury): 356.6°C                                                                                                                                                            |
| <b>Flash point:</b>                             | Not determined or not available.                                                                                                                                              |
| <b>Evaporation rate:</b>                        | Not determined or not available.                                                                                                                                              |
| <b>Flammability (solid, gaseous):</b>           | Not determined or not available.                                                                                                                                              |
| <b>Explosion limit upper:</b>                   | Not determined or not available.                                                                                                                                              |
| <b>Explosion limit lower:</b>                   | Not determined or not available.                                                                                                                                              |
| <b>Vapor pressure:</b>                          | (Mercury) 0.0012mm Hg at 20°C                                                                                                                                                 |
| <b>Vapor density:</b>                           | (Mercury) 13.6 g/cm <sup>3</sup>                                                                                                                                              |
| <b>Density:</b>                                 | Not determined or not available.                                                                                                                                              |
| <b>Relative density:</b>                        | Not determined or not available.                                                                                                                                              |
| <b>Solubilities:</b>                            | Not determined or not available.                                                                                                                                              |
| <b>Partition coefficient (n-octanol/water):</b> | Not determined or not available.                                                                                                                                              |
| <b>Auto/Self-ignition temperature:</b>          | Not determined or not available.                                                                                                                                              |
| <b>Decomposition temperature:</b>               | Not determined or not available.                                                                                                                                              |
| <b>Dynamic viscosity:</b>                       | Not determined or not available.                                                                                                                                              |
| <b>Kinematic viscosity:</b>                     | Not determined or not available.                                                                                                                                              |
| <b>Explosive properties</b>                     | Not determined or not available.                                                                                                                                              |
| <b>Oxidizing properties</b>                     | Not determined or not available.                                                                                                                                              |

#### Other information

### SECTION 10: Stability and reactivity

#### Reactivity:

Does not react under normal conditions of use and storage.

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### Patterson Admix Alloy Capsules (Mercury)

**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:** Fatal if inhaled

**Product data:** No data available.

**Substance data:**

| Name                                        | Route      | Result                   |
|---------------------------------------------|------------|--------------------------|
| Mercury, metallic (40-50% of total product) | oral       | LD50 - Rat - 9.2 mg/kg   |
|                                             | inhalation | LC50 - Rat - >26.6 mg/m3 |

**Skin corrosion/irritation**

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

**Product data:**

No data available.

**Substance data:** No data available.

**Serious eye damage/irritation**

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

**Product data:**

No data available.

**Substance data:** No data available.

**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:**

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### Patterson Admix Alloy Capsules (Mercury)

| Name                                        | Species | Result                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mercury, metallic (40-50% of total product) |         | There was some evidence of a carcinogenic activity in male rats based on the increased incidence squamous cell papillomas of the forestomach. Marginally increased incidence of thyroid follicular adenomas and carcinomas may have been related to mercuric chloride. There was equivocal evidence of a carcinogenic activity in female rats based on two squamous cell papillomas of the forestomach, per ECHA. |

**International Agency for Research on Cancer (IARC):** None of the ingredients are listed.

**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:**

| Name                                        | Result                                    |
|---------------------------------------------|-------------------------------------------|
| Mercury, metallic (40-50% of total product) | LOEL: 7.5 mg/kg bw/day (nominal) per ECHA |

#### Specific target organ toxicity (single exposure)

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

**Product data:**

No data available.

**Substance data:** No data available.

#### Specific target organ toxicity (repeated exposure)

**Assessment:** Causes damage to organs through prolonged or repeated exposure

**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

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### Patterson Admix Alloy Capsules (Mercury)

#### Acute (short-term) toxicity

**Assessment:** Very toxic to aquatic life

**Product data:** No data available.

**Substance data:**

| Name                                        | Result                                        |
|---------------------------------------------|-----------------------------------------------|
| Mercury, metallic (40-50% of total product) | LC50 - Cyprinus carpio - 160 µg/L (96 h)      |
|                                             | NOEC - Pimephales promelas - 0.63 µg/L (32 d) |

#### 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)

|                               |               |
|-------------------------------|---------------|
| UN number                     | Not regulated |
| UN proper shipping name       | Not regulated |
| UN transport hazard class(es) | None          |
| Packing group                 | None          |
| Environmental hazards         | None          |
| Special precautions for user  | None          |

#### International Maritime Dangerous Goods (IMDG)

|                               |               |
|-------------------------------|---------------|
| UN number                     | Not regulated |
| UN proper shipping name       | Not regulated |
| UN transport hazard class(es) | None          |
| Packing group                 | None          |
| Environmental hazards         | None          |

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### Patterson Admix Alloy Capsules (Mercury)

|                              |      |
|------------------------------|------|
| Special precautions for user | None |
|------------------------------|------|

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

|                               |                                                                                                                                                                                           |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UN number                     | UN3506                                                                                                                                                                                    |
| UN proper shipping name       | Mercury contained in manufactured articles                                                                                                                                                |
| UN transport hazard class(es) | 8 (6.1) <div></div> |
| Packing group                 | III                                                                                                                                                                                       |
| Environmental hazards         | None                                                                                                                                                                                      |
| Special precautions for user  | None                                                                                                                                                                                      |
| Excepted quantities           | E0 (Not permitted as expected quantity)                                                                                                                                                   |
| Limited quantity              | Forbidden for passenger and Cargo aircraft                                                                                                                                                |

### SECTION 15: Regulatory information

#### Canada regulations

##### Domestic substances list (DSL):

|           |                                             |        |
|-----------|---------------------------------------------|--------|
| 7439-97-6 | Mercury, metallic (40-50% of total product) | Listed |
|-----------|---------------------------------------------|--------|

**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:** 2-0-0-0

**HMIS:** 2-0-0-0

**Initial preparation date:** 11.27.2017

**End of Safety Data Sheet**