

## SAFETY DATA SHEETS

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

070900381

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

070830117 070830125 070830158 070830166 070830190 070830208 070830232 070830240 070830273 070830281  
070830315 070830323 074378089 074378097 074378105 074378345 074378352 074378360 074378378 074378386  
074378394 074390118 074390126 074390142 074390159 074390175 074390183 074390209 074390217 074390233  
074390241 074390266 074390274 074390407 074390464 074390472

**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).**

070830083 070830109 070830141 070830182 070830224 070830265 070830307 070900183 070900209 070900217  
070900225 070900241 070900258 070900266 070900282 070900290 070900308 070900324 070900332 070900340  
070900365 070900373 070900407 070900415 070900423



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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 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:

Acute toxicity (inhalation), category 1

Specific target organ toxicity - repeated exposure, category 1

Reproductive toxicity, category 2

Acute aquatic hazard, category 1

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## Patterson Admix Alloy Capsules (Mercury)

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: 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:

Not determined or not applicable.

#### After inhalation:

Loosen clothing as necessary and position individual in a comfortable position

Maintain an unobstructed airway

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### Patterson Admix Alloy Capsules (Mercury)

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 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

#### 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

#### 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

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### Patterson Admix Alloy Capsules (Mercury)

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:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
ACGIH	Mercury, metallic (40-50% of total product)	7439-97-6	ACGIH TLV (TWA): 0.02 mg/m <sup>3</sup>
United States (OSHA)	Mercury, metallic (40-50% of total product)	7439-97-6	OSHA PEL (TWA): 0.1 mg/m <sup>3</sup>

#### 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.

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:

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### Patterson Admix Alloy Capsules (Mercury)

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</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</b>	Not determined or not available.
<b>Melting point/freezing point</b>	-38.9°C
<b>Initial boiling point/range</b>	(Mercury): 356.6°C
<b>Flash point (closed cup)</b>	Not determined or not available.
<b>Evaporation rate</b>	Not determined or not available.
<b>Flammability (solid, gas)</b>	Not determined or not available.
<b>Upper flammability/explosive limit</b>	Not determined or not available.
<b>Lower flammability/explosive limit</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.

#### 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.

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### Patterson Admix Alloy Capsules (Mercury)

#### 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:

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

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### Patterson Admix Alloy Capsules (Mercury)

**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

#### 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



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### Patterson Admix Alloy Capsules (Mercury)

**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)

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
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)  
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

#### United States regulations

##### Inventory listing (TSCA):

7439-97-6	Mercury, metallic (40-50% of total product)	Listed
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**Significant New Use Rule (TSCA Section 5):** Not determined.

**Export notification under TSCA Section 12(b):** Not determined.

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### Patterson Admix Alloy Capsules (Mercury)

**SARA Section 302 extremely hazardous substances:** Not determined.

**SARA Section 313 toxic chemicals:**

7439-97-6	Mercury, metallic (40-50% of total product)	Not Listed
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**CERCLA:** Not determined.

**RCRA:** Not determined.

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

**Massachusetts Right to Know:** Not determined.

**New Jersey Right to Know:** Not determined.

**New York Right to Know:** Not determined.

**Pennsylvania Right to Know:** Not determined.

**California Proposition 65:**

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

7439-97-6	Mercury, metallic (40-50% of total product)
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### 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:** 2-0-0-0

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

**Initial preparation date:** 11.27.2017

**End of Safety Data Sheet**