# **SAFETY DATA SHEETS**

# This SDS packet was issued with item:

070871418

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

070871426 070871434 070871442 070871459 070871467 070871475 070871483 070871491 070871509 070871517 070871525 070871533 070871541 070871558 070871566 070871574 070871582 070871590 070871608 070871616 070871624 070871632 070871640 070871657 070871665 070871673 070871681 070871699 070871707 070871715 070871723 070871731 070871749 070871756 070871798 070871806 070871814 070871822 070871830 070871848 070871855 070871863 070871871 070871889 070871897 070871905 070871913 070871921 070871939 070871947 070871954 070871962 070872010 070872028 070872036 070872044 070872051 070872069 070872077 070872085 070872093 070872101 070872119 070872127 070872135 070872143 070872150 070872168 070872176 070872184 070872192 070872200 070872218 070872226 070872234 070872242 070872259 070872267 070872275 070872283



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### **Patterson K Files**

### **SECTION 1: Identification**

### **Product identifier**

Product name: Patterson K Files

**Product code:** 070871418, 070871426, 070871434, 070872010,

070872028, 070872036, 070872044, 070872051, 070872069 070871442,

070871459, 070871467, 070871475, 070871483, 070871491,

070871509, 070871517, 070871525 070872077, 070871533, 070871541,

070871558, 070871566

Additional information: 070872085, 070872093, 070872101,

070872119 070872127, 070872135, 070871574, 070871582, 070871590,

070871608, 070871616, 070871624, 070871632 070871640, 070871657,

070872143, 070871665, 070871673, 070871681, 070871699,

070872150, 070872168 070872176, 070872184, 070872192, 070872200,

070871707, 070871715, 070871723, 070871731, 070871749 070871756,

070872218, 070871798, 070871806, 070871814, 070871822,

070872226, 070872234, 070872242 070872259, 070872267, 070872275,

070871830, 070871848, 070871855

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

**Relevant identified uses:** Not determined or not applicable. **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: Not a hazardous substance or mixture

**Label elements** 

Hazard pictograms: None

Signal word: None

Hazard statements: None

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### **Patterson K Files**

**Precautionary statements:** None **Hazards not otherwise classified:** None

### **SECTION 3: Composition/information on ingredients**

Identification	Name	Weight %
CAS number: 7440-02-0	Nickel (solid)	9
CAS number: 7440-47-3	Chromium	18
CAS number: 7439-96-5	Manganese	2
CAS number: 7440-48-4	Cobalt	0.75
CAS number: 1309-37-1	Iron	69.5

**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

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

### 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.

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### **Patterson K Files**

## **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:

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

Sweep or scoop up solid material while minimizing dust generation

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 dust.

Do not eat, drink, smoke or use personal products when handling chemical substances.

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

Keep container tightly sealed.

Keep container dry.

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	Iron	1309-37-1	ACGIH TLV TWA 5 mg/m <sup>3</sup>
	Manganese	7439-96-5	ACGIH TLV TWA 0.2 mg/m³

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### **Patterson K Files**

Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Chromium	7440-47-3	ACGIH TLV TWA: 0.5 mg/m3
	Nickel (solid)	7440-02-0	ACGIH TLV TWA: 1.5 mg/m3 (Inhalable fraction)
	Cobalt	7440-48-4	ACGIH TLV (TWA): 0.02 mg/m3; confirmed animal carcinogen with unknown relevance to humans
United States (OSHA)	Manganese	7439-96-5	OSHA PEL Ceiling 5.0 mg/m³
	Iron	1309-37-1	OSHA PEL TWA 15 mg/m³ (total dust)
	Iron	1309-37-1	OSHA PEL TWA 5 mg/m³ (respirable fraction)
	Iron	1309-37-1	OSHA PEL TWA 10 mg/m³ (Fume)
	Chromium	7440-47-3	OSHA PEL TWA: 1 mg/m3 as Cr for metal and insoluble Cr salts
	Chromium	7440-47-3	OSHA PEL TWA: 0.5 mg/m3 for chromium (II) or (III) compounds
	Nickel (solid)	7440-02-0	OSHA PEL TWA: 1 mg/m3 (The PEL does not apply to Nickel carbonyl.)
	Cobalt	7440-48-4	OSHA PEL (TWA): 0.1 mg/m3
NIOSH	Manganese	7439-96-5	NIOSH REL TWA 1.0 mg/m <sup>3</sup>
	Manganese	7439-96-5	NIOSH REL ST 3.0 mg/m <sup>3</sup>
	Iron	1309-37-1	NIOSH REL TWA 5.0 mg/m <sup>3</sup>
	Chromium	7440-47-3	NIOSH REL: TWA 0.5 mg/m3
	Chromium	7440-47-3	NIOSH IDLH: 250 mg/m3 (as Cr)
	Nickel (solid)	7440-02-0	NIOSH IDLH: 10 mg/m3 (as Ni)
	Nickel (solid)	7440-02-0	NIOSH REL TWA: 0.015 mg/m3 (The REL does not apply to Nickel carbonyl.)
	Cobalt	7440-48-4	NIOSH REL (TWA): 0.05 mg/m3

## **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.

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### **Patterson K Files**

### **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

Appearance	Solid
Odor	metallic grey, ranging from dull to bright polished
Odor threshold	Not determined or not available.
рН	Not determined or not available.
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	Not determined or not available.
Flash point (closed cup)	Not determined or not available.
Evaporation rate	Not determined or not available.
Flammability (solid, gas)	Not determined or not available.
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Vapor pressure	Not determined or not available.
Vapor density	Not determined or not available.
Density	Not determined or not available.
Relative density	Not determined or not available.
Solubilities	Not determined or not available.
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	Not determined or not available.
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.

### 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:**

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### **Patterson K Files**

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:

Name	Route	Result
Cobalt	oral	LD50 - Rat - 550 mg/kg

### 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:** 

Name	Result
Nickel (solid)	May cause an allergic skin reaction.
	Results from the test show that 11 of 15 animals induced with CoCl2 became sensitized to CoCl2, as shown by the challenge, per ECHA.

# Carcinogenicity

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

Product data: No data available.

**Substance data:** 

Name	Species	Result
Cobalt		Under the conditions of a 2-year inhalation study, there was clear evidence of carcinogenic activity of cobalt metal in male and female F344/NTac rats based on increased incidences of alveolar/bronchiolar adenoma and carcinoma in the lung. There was clear evidence of carcinogenic activity of cobalt metal in male and female B6C3F1/N mice based on increased incidences of alveolar/bronchiolar neoplasms of the lung (predominantly carcinoma), including multiple carcinoma, per ECHA key study from NTP.

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### **Patterson K Files**

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

Name	Classification
Iron	Group 3 - Not classifiable as to its carcinogenicity to humans
Chromium	Group 3 - Not classifiable as to its carcinogenicity to humans

### **National Toxicology Program (NTP):**

Name	Classification
Chromium	Known to be human carcinogens
Nickel (solid)	Reasonably anticipated to be human carcinogens

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

Product data: No data available. Substance data:

Name	Result
Cobalt	NOAEL (fertility): 30 mg/kg bw/day per ECHA key study.

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

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

Product data: No data available. Substance data:

Name	Result
Nickel (solid)	Substance causes damage to organs.

## **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**

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### **Patterson K Files**

### Acute (short-term) toxicity

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

**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)

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	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None

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# **Patterson K Files**

Environmental hazards	None
Special precautions for user	None

# **SECTION 15: Regulatory information**

### **United States regulations**

# Inventory listing (TSCA):

1309-37-1	Iron	Listed
7440-47-3	Chromium	Listed
7440-02-0	Nickel (solid)	Listed
7439-96-5	Manganese	Listed
7440-48-4	Cobalt	Listed

**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:**

7440-47-3	Chromium	Listed
7440-02-0	Nickel (solid)	Listed
7439-96-5	Manganese	Listed
7440-48-4	Cobalt	Not Listed

### **CERCLA:**

7440-47-3	Chromium	Listed	5000
7440-02-0	Nickel (solid)	Listed	100

**RCRA:** Not determined.

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

### Massachusetts Right to Know:

7440-47-3	Chromium	Listed
7440-02-0	Nickel (solid)	Listed
7439-96-5	Manganese	Listed

## **New Jersey Right to Know:**

7440-47-3	Chromium	Listed
7440-02-0	Nickel (solid)	Listed
7439-96-5	Manganese	Listed

# **New York Right to Know:**

7440-47-3	Chromium	Listed
7440-02-0	Nickel (solid)	Listed
7439-96-5	Manganese	Listed

# Pennsylvania Right to Know:

7440-47-3	Chromium	Listed
7440-02-0	Nickel (solid)	Listed
7439-96-5	Manganese	Listed

# **California Proposition 65:**

WARNING: This product contains a chemical known to the State of California to cause cancer.

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7440-02-0	Nickel (solid)
7440-48-4	Cobalt

# **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:** 1-0-0-0 **HMIS:** 1-0-0-0

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**End of Safety Data Sheet**