SAFETY DATA SHEETS

This SDS packet was issued with item:

070897165

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

070897157

Safety Data Sheet

According to Canadian Hazardous Products Regulations and WHMIS 2015

Patterson Matrix Strips Artwork

SECTION 1: Identification

Product identifier

Product name: Patterson Matrix Strips Artwork
Product code: 070897157, 070897165

Recommended use of the product and restriction on use

Relevant identified uses: Flexible packaging, printing, lamination. Food packaging, lidding. Building protection, ducting. Cosmetic packaging. Label & Cards. Safety film. Thermal lamination.
Uses advised against: Not determined or not applicable.
Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details

Supplier:
Canada
Patterson Dentaire Canada Inc.
1205 boul Henri-Bourassa West
Montreal, Quebec H3M 3E6
+1 514-745-4040

Emergency telephone number:

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

SECTION 2: Hazard identification

GHS classification: Not a hazardous substance or mixture

Label elements

Hazard pictograms: None

Signal word: None

Hazard statements: None

Precautionary statements: None

Hazards not otherwise classified:

Film burns along with flame. In case of non contact of flame, it will shrink and extinguish of its own. The molten material may drip and ignite fire. Combustion will evolve irritant vapors. At complete combustion the major products formed are Carbon dioxide, Carbon monoxide and water.

SECTION 3: Composition/information on ingredients

Patterson Matrix Strips Artwork

Identification	Name	Weight %
CAS number: 25038-59-9	Polyethylene terephthalate	99.35-99.75
CAS number: 7631-86-9	Slip agent (SiO2)	0.4
CAS number: 7429-90-5	Aluminum (Thin layers of Al)	<0.2
CAS number: 1309-64-4	Diantimony trioxide	0.035

Additional Information: None

SECTION 4: First-aid measures

Description of first-aid measures

General notes:
Show this Safety Data Sheet to the doctor in attendance.

After inhalation:
If inhaled, remove person to fresh air and place in a position comfortable for breathing. If respiratory symptoms develop or persist, seek medical advice/attention.

After skin contact:
Wash affected area with plenty of soap and water. Remove contaminated clothing and launder before reuse. If skin irritation develops or persists, seek medical advice/attention.

After eye contact:
Immediately rinse eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes. If eye irritation develops or persists, seek medical advice/attention.

After ingestion:
If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention.

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:
Treat symptomatically.

SECTION 5: Fire-fighting measures

Extinguishing media

Suitable extinguishing media:

Water mist/fog, carbon dioxide, dry chemical or alcohol resistant foam.

Unsuitable extinguishing media:

Do not use water jet.

Specific hazards during fire-fighting:

Thermal decomposition may produce irritating/toxic fumes/gases.

Special protective equipment for firefighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA).

Special precautions:

Avoid contact with skin, eyes, hair and clothing. Do not breathe fumes/gas/mists/aerosols/vapors/dusts. Move containers from fire area if safe to do so. Use water spray/fog for cooling fire exposed containers. Avoid unnecessary run-off of extinguishing media which may cause pollution.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Handle the product using protective gloves resistant to the chemicals exposed. Avoid contact with skin and inhalation of its vapors or smoke. Maintain adequate ventilation in the working area after spilling.

Environmental precautions:

No special environmental precautions required.

Methods and material for containment and cleaning up:

Contaminated protective clothing should be segregated in such a manner so that there is no direct personal contact by personnel who handle, dispose, or clean the clothing. Quality assurance to ascertain the completeness of the cleaning procedures should be implemented before the decontaminated protective clothing is returned for reuse by the workers. Contaminated clothing should not be taken home at end of shift, but should remain at employee's place of work for cleaning.

Sweep up and recover, or mix material with moist absorbent and shovel into suitable chemical waste container.

Reference to other sections:

For personal protective equipment see Section 8. For disposal see Section 13.

SECTION 7: Handling and storage

Precautions for safe handling:

Films and film scraps can create a slipping hazard. Collect product for recovery or disposal. Use proper personal protection. Scrap film generated through processing, eg slitting/shredding, should be swept up and disposed of on drums or plastic bags according to local regulations, don’t allow entering drains and waterways.

Keep away from ignition sources. Observe the general rules of industrial fire protection.

Conditions for safe storage, including any incompatibilities:

Store in cool, dry place at an ambient temperature (preferably 25°C with Relative Humidity of 50%) in a closed storage 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
British Columbia	Slip agent (SiO2)	7631-86-9	8-Hour TWA: 4 mg/m³ (precipitated and gel, total)
	Slip agent (SiO2)	7631-86-9	8-Hour TWA: 1.5 mg/m³ (precipitated and gel, respirable)
	Aluminum (Thin layers of Al)	7429-90-5	8-Hour TWA: 1 mg/m³ (Metal and insoluble compounds, respirable)
Quebec	Slip agent (SiO2)	7631-86-9	8-Hour TWA: 6 mg/m³ (respirable dust)
	Aluminum (Thin layers of Al)	7429-90-5	8-Hour TWA: 5 mg/m³ (Welding fumes, as Al)
	Aluminum (Thin layers of Al)	7429-90-5	8-Hour TWA: 10 mg/m³
	Aluminum (Thin layers of Al)	7429-90-5	8-Hour TWA: 5 mg/m³ (Pyrotechnic powders, as Al)
	Diantimony trioxide	1309-64-4	8-Hour TWA: 0.5 mg/m³ (Antimony trioxide, as Sb)
Ontario	Slip agent (SiO2)	7631-86-9	8-Hour TWA: 10 mg/m³
	Aluminum (Thin layers of Al)	7429-90-5	8-Hour TWA: 1 mg/m³ (Metal and insoluble compounds, respirable fraction)
	Diantimony trioxide	1309-64-4	8-Hour TWA: 0.5 mg/m³ (Antimony and its Antimony compounds, as Sb)
Alberta	Aluminum (Thin layers of Al)	7429-90-5	8-Hour TWA: 10 mg/m³ (Metal dust)
	Aluminum (Thin layers of Al)	7429-90-5	8-Hour TWA: 5 mg/m³ (Pyro powders, as Al)
Manitoba	Aluminum (Thin layers of Al)	7429-90-5	8-Hour TWA: 1 mg/m³ (Metal and insoluble compounds, respirable fraction)
Saskatchewan	Aluminum (Thin layers of Al)	7429-90-5	8-Hour Contamination Limit: 10 mg/m³ (Metal dust and compounds, as Al)
	Aluminum (Thin layers of Al)	7429-90-5	15-Minute Contamination Limit: 20 mg/m³ (Metal dust and compounds, as Al)
	Aluminum (Thin layers of Al)	7429-90-5	8-Hour Contamination Limit: 5 mg/m³ (Pyro powders, as Al)
	Aluminum (Thin layers of Al)	7429-90-5	15-Minute Contamination Limit: 10 mg/m³ (Pyro powders, as Al)
New Brunswick	Aluminum (Thin layers of Al)	7429-90-5	8-Hour TWA: 10 mg/m³ (Metal dust)
	Aluminum (Thin layers of Al)	7429-90-5	8-Hour TWA: 5 mg/m³ (Pyro powders, as Al)
Canada	Diantimony trioxide	1309-64-4	8-Hour TWA: 0.5 mg/m³ (Antimony compounds, as Sb)
	Diantimony trioxide	1309-64-4	8-Hour TWA: 0.002 mg/m³ (Antimony Trioxide, Inhalable fraction)

Biological limit values:

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

Information on monitoring procedures:

Not determined or not applicable.

Appropriate engineering controls:

Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling. Provide adequate ventilation to maintain the airborne concentrations of vapor, mists, and/or dusts below the applicable workplace exposure limits, while observing recognized national standards (or equivalent).

Personal protection equipment

Eye and face protection:

Safety glasses or goggles. Use eye protection equipment that has been tested and approved by recognized national standards (or equivalent).

Skin and body protection:

If there is potential for contact with hot/molten material, wear heat-resistant impervious clothing and footwear.

Respiratory protection:

Respirators are not needed for normal use. If engineering controls do not maintain airborne concentrations below the applicable workplace exposure limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognized national standards (or equivalent) must be worn.

General hygienic measures:

When handling chemical products, do not eat, drink or smoke. Wash hands after handling, before breaks, and at the end of the workday. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Perform routine housekeeping.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance (physical state, color):	Solid; flexible plastic film
Odor:	Odorless
Odor threshold:	Not determined or not available.
pH-value:	Not determined or not available.
Melting/Freezing point:	255 - 265 °C
Boiling point/range:	Not determined or not available.
Flash point:	440°C ASTM 09129-68
Evaporation rate:	Not determined or not available.
Flammability (solid, gaseous):	Not determined or not available.
Explosion limit upper:	Not determined or not available.
Explosion limit lower:	Not determined or not available.
Vapor pressure:	Not determined or not available.
Vapor density:	Not determined or not available.
Density:	1.35 - 1.42 gm/cm3
Relative density:	Not determined or not available.
Solubilities:	Practically insoluble in water
Partition coefficient (n-octanol/water):	Not determined or not available.
Auto/Self-ignition temperature:	480ºC - ASTM 10929-68

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

Solubility in organic solvents at 20°C	Insoluble in common organic solvents

SECTION 10: Stability and reactivity

Reactivity:
Stable under normal conditions of use up to 45°C.

Chemical stability:
Stable under normal conditions of use up to 45°C.

Possibility of hazardous reactions:
No hazardous reactions known under normal atmospheric conditions.

Conditions to avoid:
Strong acid and base may hydrolyze the film. Avoid contact with strong oxidizing agent.
Do not heat to temperature exceeding 235°C.

Incompatible materials:
Acetic anhydride, acetone, aniline, benzene, chloroform, chromic acid, cyclohexanone, dimethylformamide, dioxane, ethyl acetate, methyl ethyl ketone, methylene chloride, phenol, tetrahydrofuran, trichloroethylene, triethanolamine, caustic soda.
Strong oxidation agents as well as strong acids and caustic will decompose polyester. Water may deteriorate surface properties and lead to sticking of film layers.

Hazardous decomposition products:
Above the decomposition temperature, the major volatiles will be terephthalic acid, oligomers of PET, carbon dioxide, carbon monoxide, acetaldehyde, and low molecular weight alcohols/ aldehydes. When heated to decomposition it emits acrid smoke and irritating fumes

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
Slip agent (SiO2)	oral	LD50 Rat: > 5000 mg/kg
	dermal	LD50 Rat: > 5000 mg/kg
	inhalation	LC50 Rat: > 58.8 mg/L (4hr)
Aluminum (Thin layers of Al)	oral	LD50 Rat: 15900 mg/kg
Diantimony trioxide	oral	LD50 Rat: >20000 mg/kg
	inhalation	LC50 Rat: >5.2 mg/L (4 hours)
	dermal	LD50 Rabbit: >8300 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: 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
Diantimony trioxide		Suspected of causing cancer.

International Agency for Research on Cancer (IARC):

Name	Classification
Slip agent (SiO2)	Group 3
Diantimony trioxide	Group 2B

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

Product data:

No data available.

Substance data: No data available.

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

Product data: No data available.

Substance data:

Name	Result
Diantimony trioxide	LC50 Pimephales promelas: 14.4 mg/L
	LC50 Daphnia magna: 12.1 mg/L (48 hours)

Chronic (long-term) toxicity

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

Product data: No data available.

Substance data:

Name	Result
Diantimony trioxide	NOEC Pimephales promelas: 1.13 mg/L
	NOEC Daphnia magna: 1.74 mg/L (21 days)

Persistence and degradability

Product data: No data available.

Substance data: No data available.

Bioaccumulative potential

Product data: No data available.

Substance data:

Name	Result
Slip agent (SiO2)	BCF: 3.16 L/kg

Mobility in soil

Product data: No data available.

Substance data:

Name	Result
Slip agent (SiO2)	Mobile (log Koc: 1.337)
Diantimony trioxide	Log Kp: 2.07

Results of PBT and vPvB assessment

Patterson Matrix Strips Artwork

Product data:

PBT assessment: This product does not contain any substances that are assessed to be a PBT.

vPvB assessment: This product does not contain any substances that are assessed to be a vPvB.

Substance data:

PBT assessment:

Slip agent (SiO2)	This substance is not PBT.
Aluminum (Thin layers of Al)	Substance is not PBT.
Diantimony trioxide	Substance is not PBT.

vPvB assessment:

Slip agent (SiO2)	This substance is not vPvB.
Aluminum (Thin layers of Al)	Substance is not vPvB.
Diantimony trioxide	Substance is not vPvB.

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

Contaminated packages:

Not determined or not applicable.

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
Special precautions for user	None

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

UN number	Not regulated
UN proper shipping name	Not regulated

Patterson Matrix Strips Artwork

UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	
Bulk Name	None
Ship type	None
Pollution category	None

SECTION 15: Regulatory information

Canada regulations

Domestic substances list (DSL): All ingredients are listed or exempt.

Non-domestic substances list (NDSL): None of the ingredients are listed.

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.

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End of Safety Data Sheet