## **SAFETY DATA SHEETS**

# This SDS packet was issued with item:

070831578

N/A

Form No. A289 COMPANIES, INC. Date Prepared: 4/3/2015

SECTION 1: Identification of the substance/preparation and of the company / undertaking

#### (a) GHS product identifier

Patterson Aluminum Oxide

## (e) Emergency phone number

CHEMTREC 1-800-424-9300

#### (b) Other means of identification

NA

#### (c) Recommended use of the chemical and restrictions on use

For professional dental applications.

#### (d) Supplier's details

Patterson Companies, Inc. 1031 Mendota Heights Road Saint Paul, MN 55120 Phone: 1-800-328-5536

## **SECTION 2: Hazards identification**

#### (a) GHS classification of the substance/mixture

#### **Substance Name**

1. Aluminum Oxide - Not classified as a hazardous substance.

#### (b) Label Elements

**Hazard statements** 

None

## **Precautionary statements**

None

Hazard Symbol(s) Signal Word(s)

NONE NONE

## (c) Other hazards which do not result in classification

**IF ON SKIN:** Wash thoroughly with soap and warm water.

IF INHALED: Remove to fresh air.

IF SWALLOWED: Never give anything by mouth to an unconscious person. Rinse mouth with water.

IF IN EYES: Flush eyes with water.

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

(a) Chemical(s) Identity: Mixture:

 (b) Common Name:
 (c) CAS No.
 Concentration (Percentage)

 Aluminum Oxide
 1344-28-1
 96.40%

 Silicon Dioxide
 7631-86-9
 0.50%

 Titanium Oxide
 13463-67-7
 2.70%

## SECTION 4: First-aid measures

## (a) Description of first aid measures:

IF ON SKIN (OR HAIR): Wash thoroughly with soap and warm water.

IF INHALED: Remove to fresh air.

IF SWALLOWED: Never give anything by mouth to an unconscious person. Rinse mouth with water.

IF IN EYES: Flush eyes with water.

IF ON CLOTHING: Wash clothing thoroughly.

#### (b) Most important symptoms and effects, both acute and delayed:

Unlikely events of shortness of breath, dizziness and nausea.

## (c) Indication of any immediate medical attention and special treatment needed:

Unlikely events of shortness of breath, dizziness and nausea.

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**SECTION 5: Fire-fighting measures** 

## (a) Suitable extinguishing media:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

(b) Special hazards arising from the chemical or mixture: ND

## (c) Special protective equipment and precautions for fire-fighters:

Do not use halocarbon extinguishers. The product itself does not burn.

**SECTION 6: Accidental release measures** 

## (a) Personal precautions, protective equipment and emergency procedures:

Avoid dust formation. Avoid breathing vapors, mist, or gas.

(b) Environmental precautions:

ND

#### (c) Methods and material for containment and cleaning up:

Sweep up and shovel. Keep in suitable, close containers for disposal.

**SECTION 7: Handling and storage** 

#### (a) Precautions for safe handling:

Provide appropriate exhaust ventilation at places where dust is formed.

#### (b) Conditions for safe storage, including any incompatibilities:

Keep container tightly closed in a dry and well-ventilated place. Incompatibilities include: Strong acids, strong bases, chlorine trifluoride, ethylene oxide, halogenated hydrocarbon, oxygen difluoride, sodium nitrate, vinyl compounds.

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

(a) Control parameters:

 ACGIH
 OSHA

 Chemical
 TLV
 TLV-STEL
 PEL TWA
 PEL CEILING

 Aluminum Oxide
 10 mg/m³
 NE
 10 mg/m³
 NE

## (b) Appropriate Engineering Controls:

General industrial hygiene practice.

#### (c) Individual protection measures:

**RESPIRATORY:** Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)

**EYE PROTECTION:** Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**PROTECTIVE GLOVES:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**OTHER PROTECTIVE EQUIPMENT:** Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

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(r) Viscosity:

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**SECTION 9: Physical and chemical properties** 

(a) Appearance:Powder.(b) Odor:NA(c) Odor threshold:NA

(d) pH:9.4 - 10.1 at  $20 \,^{\circ}$ C ( $68 \,^{\circ}$ F)(e) Melting point / freezing point: $2,040 \,^{\circ}$ C ( $3,704 \,^{\circ}$ F)(f) Initial boiling point and boiling range: $2,980 \,^{\circ}$ C ( $5,396 \,^{\circ}$ F)

(g) Flash point
NA
(h) Evaporation rate (BuAc=1):
NA
(i) Flammability:
NA
(j) Upper/lower flammability or explosive limits:
NA

**(k) Vapor Pressure:** 1 hPa (1 mmHg) at 2,158 °C (3,916 °F)

(I) Vapor density: NA

(m) Relative density:4.000 g/cm³(n) Solubility:Insoluble.(o) Partition coefficient: n-octanol/water:ND(p) Auto-ignition temperature:NE(q) Decomposition temperature:ND

**SECTION 10: Stability and reactivity** 

(a) Reactivity: Not reactive (b) Chemical stability: Stable.

(c) Possibility of hazardous reactions: Hazardous Polymerization will not occur.

(d) Conditions to avoid: Exposure to moisture.

(f) Hazardous decomposition products: ND.

**SECTION 11: Toxicological information** 

NE **Acute toxicity** Skin corrosion/irritation NE Serious Eye Damage / Irritation NE Respiratory or skin sensitization NE Germ cell mutagenicity NE NE Carcinogenicity Reproductive toxicity ΝE NE STOT-single exposure STOT-repeated exposure NE NE **Aspiration Hazard** 

(a) Exposure route:

Inhalation, Ingestion, Skin.

(b) Symptoms related to the physical, chemical and toxicological characteristics:

Cough, chest pain, difficulty breathing, gastrointestinal disturbance.

NA

(c) Delayed and immediate effects and also chronic effects from short and long tem exposure:

ND.

(d) Numerical measures of toxicity:

ΝE

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## **SECTION 12: Ecological information**

(a) Ecotoxicity:

NE

(b) Persistence and degradability:

NF

(c) Bioaccumulative potential

NE

(d) Mobility in soil:

NE

(e) Other adverse effects:

NE

**SECTION 13: Disposal considerations** 

#### **Product:**

#### Recommendation

WASTE DISPOSAL METHOD: Dispose of properly in accordance with Federal, State, and Local regulations.

#### **SECTION 14: Transport information**

(a) UN Number

NE

(b) UN Proper shipping name

NE

(c) Transport hazard class(es)

NE

(d) Packing Group

ΝE

(e) Environmental hazards

NE

(f) Transport in bulk

NE

(g) Other Information

NE

#### **SECTION 15: Regulatory information**

## **SARA Reporting Requirements:**

There may be reporting requirements for this product.

#### **SARA Threshold Planning Quantity:**

There may be specific Threshold Planning Quantities for the components of this product.

## **TSCA Inventory Status:**

The components of this product are listed on the TSCA Inventory.

## **Other Federal Requirements:**

This product complies with the appropriate sections of the Food and Drug Administration's 21 CFR subchapter G (Cosmetics).

## Other Canadian Regulations:

ND.

#### **State Regulatory Information:**

This product may contain components that are covered under specific state criteria.

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**SECTION 16: Other information** 

PREPARED BY: Kathryn Harris

GAR QMS SDS REFERENCE: A033

**HAZARDOUS MATERIAL IDENTIFICATION (HMIS) RATING:** 

Health 0
Flammability 0
Reactivity 0
Other NA

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARD IDENTIFICATIN RATING:

Health 0
Flammability 0
Reactivity 0
Special Information NA

REVISION NUMBER: 150403

CHANGES FROM PREVIOUS VERSION: INITIAL VERSION

**ABBREVIATIONS** 

NA Not Applicable LD Lethal Dose

ND Not Determined TC Toxic Concentration

NE Not Established TD Toxic Dose

ppm parts per million BOD Biological Oxygen Demand G Gallon COD Chemical Oxygen Demand

mg Milligram Lo Lowest

L Liter ThOD Theoretical Oxygen Demand

gm Gram TLm Threshold Limit
mol Mole IC Inhibitory Concentration
kg Kilogram DOC Dissolved Organic Carbon

μ Micro H Hours
mm Millimeter M Months
p Pico D Days
Pa Pascals Y Years
c cento W Weeks

LC Lethal Concentration

ACGIH American Conference of Governmental Industrial Hygienist

CPR Controlled Product's Regulation
DSL Canadian Domestic Substances List
NDSL Canadian Non-domestic Substance List
IARC International Agency for Research for Cancer

NOEL No Observed Effect Level

NOAEL No Observed Adverse Effect Level

OSHA Occupational Safety and Health Administration

PEL Permissible Exposure Limit

TLV Threshold Limit Value

THIS MATERIAL SAFETY DATA SHEET IS PREPARED IN COMPLIANCE WITH FEDERAL REGULATIONS (29 CFR 1910.1200) OFCHEMICALS AND THE GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING REVISION 5. ANY APPLICABLE STATE AND LOCAL REGULATIONS SHOULD BE CONSULTED. THE ABOVE INFORMATION MAY BE BASED IN PART ON INFORMATION PROVIDED BY COMPONENT SUPPLIERS AND IS BELIEVED TO BE CORRECT AS OF THE DATE HEREOF. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY USE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OF THESE DATA, THE RESULTS TO BE OBTAINED FROM THE USE OF THE MATERIAL, OR THE HAZARDS CONNECTED WITH SUCH USE. SINCE THE INFORMATION CONTAINED HEREIN MAY BE APPLIED UNDER CONDITIONS BEYOND OUR CONTROL AND WITH WHICH WE MAY BE UNFAMILIAR, AND SINCE DATA MADE AVAILABLE SUBSEQUENT TO THE DATE HEREOF MAY SUGGEST MODIFICATION OF THE INFORMATION, WE ASSUME NO RESPONSIBILITY FOR THE RESULT OF ITS USE. THIS INFORMATION AND MATERIAL IS FURNISHED ON THE CONDITION THAT THE PERSON RECEIVING IT SHALL MAKE HIS/HER OWN DETERMINATION AS TO THE SUITABILITY OF THE MATERIAL FOR HIS/HER PARTICULAR PURPOSE AND ON THE CONDITION THAT HE/SHE ASSUME THE RISK OF HIS/HER USE THEREOF.