

# **Safety Data Sheet**

according to 2012 OSHA HCS (29 CFR 1910.1200)

Print Date: 24-SEP-2018 Verified Date: 24-SEP-2018

USA Version 2.0 - Not Valid Without Verified Date

# 1. Product and Company Identification

#### **Product identifier**

Product code

PS141W526

**Product name** 

HIGH REFLECTANCE WHITE POLYESTER

#### Manufacturer or distributor

OXYPLAST

#### Distributor

Protech Chemicals Ltd. 7600 Henri-Bourassa West Saint-Laurent, Québec Canada, H4S 1W3 Tel:(514)745-0200 US tel: (862)702-3537 Fax:(514)745-5774

#### Manufacturer

Protech Chemicals Ltd. 7600 Henri-Bourassa West Saint-Laurent, QC Canada, H4S 1W3 Tel: (514) 745-0200 Fax: (514) 745-5774

#### E-Mail

info@protechpowder.com

### Material uses

Powder Coating for professional use.

#### **Emergency telephone**

Anti-Poison Centre: 1-800-463-5060 / (418) 656-8090

# 2. Hazards Identification

# Classification of the substance or mixture

# Classification according to 2012 OSHA HCS (29 CFR 1910.1200)

Skin Sensitisation (Cat 1), H317
Serious Eye Damage (Cat 1), H318
Germ Cell Mutagenicity (Cat 1B), H340
Specific Target Organ Toxicity, Repeated Exposure (Cat 2), H373
Combustible Dust

# Label elements

Signal word

DANGER

#### **Hazard pictograms**

GHS05



GHS07



GHS08



#### Hazard statement(s)

May cause an allergic skin reaction. H317 H318 Causes serious eye damage. H340 May cause genetic defects.

H373 May cause damage to organs through prolonged or repeated exposure.

#### **OSHA** statement

May form combustible dust concentrations in air.

### Precautionary statement(s)

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P243 Take precautionary measures against static discharge. P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P272 Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. P280

P281 Use personal protective equipment as required. P290 Avoid generation or accumulation of dust. P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing

P308+P313 IF exposed or concerned: Get medical advice/attention. P310 Immediately call a POISON CENTER or doctor/physician.

Specific treatment (see ... on this label). P321

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

P404 Store in a closed container.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local regulations.

#### Supplemental information

Not applicable.

#### Other hazards

Not applicable.

# **Composition / Information on Ingredients**

### **Mixtures**

#### Substances presenting a hazard within the meaning of WHMIS 2015

Component name	CAS No.	% by weight
Titanium dioxide	13463-67-7	25 - 30
Barium sulfate	7727-43-7	10 - 15
TGIC	2451-62-9	1 - 5
Tetramethyl-5-decyne-4,7-diol, 2,4,7,9-,	126-86-3	0.1 - 1.0

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# 4. First - Aid Measures

### General

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

#### Inhalation

Remove to fresh air, keep patient warm. Keep at rest. If breathing is irregular or stopped, administer artificial respiration. Give nothing by mouth. If unconscious place in recovery position and seek medical advice.

#### Ingestion

If swallowed, do not induce vomiting. Keep at rest. Get medical attention immediately. Never give anything by mouth to an unconscious person.

#### Skin contact

Immediately remove all contaminated clothing. Wash skin thoroughly with soap and water or use recognised skin cleanser. DO NOT use solvents or thinners.

#### Eye contact

Remove contact lenses, keep eyelids open. Flush with plenty of clean, fresh water (10 - 15 min.). If irritation persists, seek medical attention.

#### Most important symptoms and effects, both acute and delayed

No information available.

#### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

# 5. Fire - Fighting Measures

#### Suitable extinguishing media

Water spray, dry chemicals, CO2 or foam. If aluminum or zinc appears in sections 3, 8 or 9 use dry chemicals only.

#### Unsuitable extinguishing media

High volume water jet.

#### specific hazards arising from the hazardous product

Decomposition products may contain: carbon oxides, nitrogen oxides, sulphur oxides or metal oxide / oxides.

#### Special protective equipment for firefighters

Firefighters should wear appropriate equipment and self-containing breathing apparatus with a full face -piece operated in positive pressure mode.

# 6. Accidental Release Measures

#### Personal precautions, protective equipment and emergency procedures

No action should be taken involving any personal risk or without suitable training. Evacuate surrounding areas, shut of all ignition sources, and provide adequate ventilation. Avoid breathing powder. Put appropriate personal protection equipment. Do not touch or walk through spilled material.

#### Methods and materials for containment and cleaning up

Small spill: Move containers from spill area. Use appropriate tools to put spilled solid in an identified waste disposal container. Dispose of according to local and regional authority requirements.

Large spill: Move containers from spill area. Prevent entry into sewers, water courses or confined areas. Avoid creating dusty conditions, use water spray to reduce dust. Eliminate all source of ignition. Use appropriate tools to put spilled solid in an identified waste disposal container. Dispose of according to local and regional authority requirements.

# 7. Handling and Storage

#### Handling

Use appropriate personal protective equipment (see section 8). Precautions should be taken to prevent formation of dust in concentrations above flammable, explosive or occupational exposure limits. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Preparation may charge electrostatic: always use earth leads when transferring from one container to the other. Use only with adequate ventilation. Eating, drinking and smoking should be prohibited in areas where this material is handled, stores and processed. Wash hands and face before eating, drinking and smoking. Avoid contact with skin and eyes. Avoid inhalation of dust, particulates and spray mist arising from the application of this powder.

#### Storage

Store between 5°C and 25°C in a dry, well ventilated place away from sources of heat and direct sunlight. Keep container tightly close and sealed until ready to use. Isolate from source of heat, sparks and open flame. Do not store in unlabeled containers.

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# 8. Exposure Controls / Personal Protection

#### **Exposure controls**

Component name	CAS No.	Exposure guidelines
Titanium dioxide	13463-67-7	TLV: 10 mg/m³ PEL: 15 mg/m³
Barium sulfate	7727-43-7	TLV : 10 mg/m³ PEL : 5 mg/m³
TGIC	2451-62-9	TLV: 0.05 mg/m <sup>3</sup>

#### Appropriate engineering controls

Use local exhaust ventilation or other engineering controls to maintain air born levels below exposure limits. All dust control equipment such as local exhaust ventilation and material transport systems involved in handling this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment.

# Individual protection measures, such as personal protective equipment

#### Eye protection

Safety eye-wear should be used when there is a likelihood of exposure.

#### Skin protection

Personal should wear protective clothing. Avoid prolonged contact with skin. Use gloves when handling powder. Barrier creams applied before powder use may help to protect the exposed areas of the skin but they should not be applied once exposure has occurred.

#### Respiratory protection

Avoid breathing dust. Mechanical exhaust is recommended. Use a NIOSH approved respirator to remove particles. Respirator selection must be based on known or anticipated exposure levels.

#### Hygiene measures

Use good personal hygiene practices. Wash hands before eating, drinking and using the lavatory and at the end of the working period. Wash contaminated clothing before reuse. Contaminated clothing should be washed independently of all other types of clothing.

# 9. Physical and Chemical Properties

#### **Appearance**

Powder

Color

White

Odour

Not available

**Odour threshold** 

Not available.

рΗ

Neutral

# Melting point

Not available.

#### **Boiling point**

Not available

# Flash point

Closed cup > 300°C

#### **Evaporation rate**

Not available.

#### Flammability (for solid and gas)

Not available.

#### Upper explosion limit

Not available.

#### Lower explosion limit

Not available

#### Vapour pressure

Not available.

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#### Vapour density

Not available.

#### Relative density

1.2 - 1.9 g/cm<sup>3</sup>

#### Solubility in water

Insoluble in cold or hot water.

#### Partition coefficient: n-octanol/water

Not available.

#### Auto-ignition temperature

Not available.

# **Decomposition temperature**

Not available.

#### Viscosity

Not available.

#### Combustible dust data

KST value

 $(110 - 215) \pm 10\%$ 

ST Class

1 - 2

# Maximum explosion pressure

 $(8.2 - 10.2) \pm 10\%$ 

Minimum ignition energy

3 - 30 mj

Minimum ignition temperature

420 - 490 °C

Minimum explosion concentration

70 - 125 g/m<sup>3</sup>

# 10. Stability and Reactivity

#### Reactivity

Not reactive under recommended handling and usage conditions.

#### Chemical stability

The product is stable under recommended handling, storage and usage conditions.

# Possibility of hazardous reactions

The product is stable under recommended handling, storage and usage conditions, hazardous reactions will not occur.

### Conditions to avoid

Not available.

#### Incompatible materials

Strong oxidizing materials, acids, strong alkali.

### Hazardous decomposition products

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

# 11. Toxicological Information

#### Likely routes of exposure

Inhalation, skin contact, eye contact and ingestion

### PS141W526: HIGH REFLECTANCE WHITE POLYESTER

Acute toxicity

**Component name** 

Titanium dioxide

Barium sulfate

**TGIC** 

Result LD50/LC50

LD50/oral/rat: >7500 mg/kg LD50/dermal/rabbit: >10000 mg/kg

LD50/oral/rat: >15000 mg/kg

LD50/oral/rat: >447 mg/kg LD50/dermal/rat: >2000 mg/kg LC50/inhalation/rat: 0.65 mg/l/4 hours

Carcinogenicity classification

<u>Component name</u> <u>ACGIH IARC EPA NIOSH NTP OSHA</u>

Titanium dioxide A4 2B

Remarks

Titanium dioxide

IARC has classified titanium dioxide as 2B- Possible Carcinogenic to humans. However the only evidence of carcinogenicity is in rats exposed at high concentrations. Tests with other laboratory animals such as mice and hamsters indicate that rats are significantly more susceptible to the pulmonary overload and inflammation that causes lung cancer. Two epidemiology studies on humans among titanium dioxide workers in the US and Europe could not demonstrate an elevated lung cancer risk.

Skin corrosion/irritation

Not classified.

Serious eye damage/eye irritation

Causes serious eye damage.

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

Not classified

Mutagenicity

May cause genetic defects.

**Developmental toxicity** 

Not classified.

STOT SE

Not classified.

STOT RE

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

Not classified.

# 12. Ecological Information

**Aquatic ecotoxicity** 

See Section 02

Persistence and degradability

No information available.

**Bioaccumulative potential** 

No information available.

Mobility in soil

No information available.

Other adverse effects

No information available.

# 13. Disposal Considerations

Waste disposal

Disposal should be in accordance with applicable regional, national and local laws and regulations.

# 14. Transport Information

#### Transport (DOT / IATA / IMDG) Classification

Not a TDG controlled material.

#### Transport in bulk

No information available.

Special precautions in connection with transport or conveyance either within or outside the premises

Not applicable.

# 15. Regulatory Information

#### **TSCA**

All components of this product are included in the TSCA Chemical Inventory or are not required to be listed on the TSCA Chemical Inventory.

#### DSL

All components of this product are included in the Domestic Substance List (DSL).

#### **SARA 313**

This product contains the following chemical(s) subjected to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and to 40 CFR 372:

#### Ingredients

**CERCLA** 

**NPRI** 

Not applicable.

#### California prop. 65

Titanium dioxide - 13463-67-7: Cancer hazard

#### 16. Other Information

#### **HMIS**

Health: \*2 Flammability: 1 Physical hazard: 0 Personal Protection: F

#### **NFPA**

Health: 2 Fire: 1 Reactivity: 0 Specific Hazard:

Refer to NFPA 654, standard for the prevention of fire and dust explosions from the manufacturing, processing and handling of combustible particulate solids, for safe handling.

CHEMIONICS CORP. TALLMADGE, OH USA

### PS141W526: HIGH REFLECTANCE WHITE POLYESTER

#### **Abbreviations**

HMIS: Hazardous Materials Identification System

- Chronic Hazard, 0 - Minimal Hazard, 1 - Slight Hazard, 2 - Moderate Hazard, 3 - Serious Hazard, 4 - Severe Hazard

NFPA: National Fire Protection Association

Health: 4 – Deadly, 3 -Extreme danger, 2 – Hazardous, 1 - Slightly hazardous, 0 - Normal material Fire: 4 - Below 73°F - very flammable, 3 - 73 to 100F – flammable, 2 - 101 to 200F –combustible, 1 - Over 200F -slightly combustible, 0 - Will not Burn

Reactivity: 4- May detonate. 3- Shock or heat may detonate. 2- violent chem. Reaction, 1- Unstable if heated, 0- Stable, W- Use no water

Specific Hazard: OXY- Oxidizer, ACID- Acid, ALK- Alkali, COR- Corrosive, W- Use no water

ACGIH: American Conference of Governmental Industrial Hygienists

ACGIH Carcinogenicity: A1 - Confirmed Human Carcinogen

A2 - Suspected Human Carcinogen

A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

A4 - Not Classifiable as a Human Carcinogen A5 - Not suspected as a Human Carcinogen

IARC: International Agency for Research on Cancer

IARC classification: 1- Carcinogenic to Humans

2A - Probably carcinogenic to humans 2B - Possibly carcinogenic to humans

3 - Not classifiable as to its carcinogenicity to humans

4 - Probably not carcinogenic to humans

**EPA**: Environmental Protection Agency

NIOSH: National Institute for Occupational Safety and Health

CA - carcinogenic

NTP: National Toxicology Program

K - Known to be human carcinogens

R - Reasonably anticipated to be human carcinogen OSHA: Occupational Safety and Health Administration

DOT: Department of Transportation

IMDG: International Maritime Dangerous Goods IATA: International Air Transport association TSCA: Toxic Substance Control Act

DSL: Domestic Substance List

SARA313: Superfund Amendments and Reauthorization Act - Toxic Chemical Release Inventory (Section 313)

NPRI: National Pollutant Release Inventory

CERCLA: Comprehensive Environmental response, Compensation and Liability Act

California Prop. 65 : California Proposition 65

STOT SE: Specific Target Organ Toxicity - Single Exposure STOT RE: Specific Target Organ Toxicity - Repeated Exposure

#### Date of preparations

September 24, 2018

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