

## SAFETY DATA SHEET

**SDS number:** MTL/2806 **Issue Date:** 02/02/2017

Version: 1.0

Product name: PHOTOSPHERES®

# 1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY / UNDERTAKING

Product name PHOTOSPHERES®

Product Code: MTL/PHOTO

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## 2. HAZARDS IDENTIFICATION

INDICATION OF DANGER: Xn

Harmful

RISK PHRASES: R20-36/37/38

Harmful by inhalation. Irritating to eyes, respiratory system

and skin.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Characterisation: Hollow glass microspheres coated with titanium dioxide.

Percentage CAS number EU number Hazard Risk Phrase

Glass, oxide, >50 65997-17-3 266-046-0 None S22, S24, S24/25, S26,

chemicals S28, S39, S51

Titanium dioxide < 50 1317-80-02 215-280-1 Xn R 20-36/37/38

S26-36

## 4. FIRST AID MEASURES

Inhalation: Remove person to fresh air. If signs/symptoms develop, get

medical attention. If not breathing give artificial respiration. If

breathing is difficult, give oxygen.

Skin contact: Immediately flush skin with plenty of soap and water. If

signs/symptoms develop, get medical attention.

Eye contact: Immediately flush eye(s) with copious amounts of water. If

signs/symptoms persist seek medical attention.

Ingestion: Do not induce vomiting unless instructed to do so by medical

personnel. Wash out mouth with water. Never give anything by mouth to an unconscious person. Get medical attention.

#### 5. FIRE FIGHTING MEASURES

Extinguishing media: Water spray, Carbon dioxide, dry chemical powder, or

appropriate foam.

Special risk(s): Emits toxic fumes under fire conditions.

Protective equipment: Fire-fighters exposed to combustion/decomposition products

should use a respiratory protective device and protective

clothing to prevent contact with skin and eyes.

## **6. ACCIDENTAL RELEASE MEASURES**

Personal precautions Exercise appropriate precautions to minimise direct contact

with skin or eyes and prevent inhalation of dust.

Methods for cleaning up: Evacuate unprotected or untrained personnel from the

hazard area. Approved personal protective equipment should be used: respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Vacuum or wet sweeping may be used to avoid dust. Ventilate and wash spill area

when clean up is complete.

## 7. HANDLING AND STORAGE

Advice on safe handling: This product should only be handled by personnel trained in

the handling of potentially hazardous materials. Do not breathe dust. Care should be taken to prevent the material coming into contact with skin, eyes, mouth and personal clothing. Avoid prolonged or repeated exposure. Wash

exposed areas thoroughly with soap and water.

Storage conditions: Keep in a tightly closed container, stored in a cool, dry,

ventilated area. Protect against physical damage. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all

warnings and precautions listed for the product.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Safety shower and eye bath. Mechanical exhaust required.

Respiratory protection: Select one of the following NIOSH approved respirators

based on airborne concentration of contaminants and in accordance with OSHA regulations: Half facepiece or fullface air-purifying respirator with type P2 particulate

filters.

Eye protection: Chemical safety goggles

Skin Protection: Compatible chemical-resistant gloves

Other protection: General hygiene measures: Wash thoroughly after

handling.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical form: Powder

Colour: White

Odour: None

Boiling point: Not determined

Melting point: Not determined

Flash point: Not applicable

pH: Not applicable

Specific gravity <1.0g/cm<sup>3</sup>

Viscosity: Not applicable

Water solubility: Insoluble

## 10. STABILITY AND REACTIVITY

Stability: Stable. Hazardous Polymerization will not occur

Conditions to avoid: For Titanium Dioxide: A violent reaction with lithium occurs

around 200°C (392°F) with a flash of light; the temperature can reach 900°C. Violent or incandescent reaction may also occur with other metals such as aluminium, calcium,

magnesium, potassium, sodium, and zinc.

Materials to avoid: Strong oxidizing agents.

Hazardous decomposition: Nature of decomposition products not known.

## 11. TOXICOLOGICAL INFORMATION

Titanium dioxide:

RTECS NUMBER: BV6550000

Signs and Symptoms of Exposure: To the best of our knowledge, the chemical, physical and

toxicological properties have not been thoroughly

investigated.

Route of Exposure: Skin Contact: Causes skin irritation.

Skin Absorption: May be harmful if absorbed through the

skin.

Eye Contact: Causes eye irritation.

Inhalation: Harmful if inhaled. Material is irritating to mucous

membranes and upper respiratory tract. Ingestion: May be harmful if swallowed.

Chronic Exposure – Carcinogen: Result: This product is or contains a component that is not

classifiable as to its carcinogenicity based on its IARC,

ACGIH, NTP, or EPA classification.

IARC Carcinogen List: Rating: Group 3

#### 12. ECOLOGICAL INFORMATION

Ecotoxicity: No data available.

Mobility: No data available.

Bioaccumulative potential: No data available.

Persistence and degradability: No data available.

#### 13. DISPOSAL CONSIDERATIONS

Advice on disposal Contact a licensed professional waste disposal service to

dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all

federal, state, and local environmental regulations.

Contaminated packaging Rinse with water and dispose of as waste.

#### 14. TRANSPORT REGULATIONS

RID/ADR Non-hazardous for rail/road transport.

ICAO/IATA Non-hazardous for air transport.

IMDG Non-hazardous for sea transport.

## 15. REGULATORY INFORMATION

#### CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES

INDICATION OF DANGER: Xn. Harmful.

Risk Phrases: R20-36/37/38 Harmful by inhalation. Irritating to eyes,

respiratory system and skin.

Safety Phrases: S22 Do not breathe dust.

S24/25 Avoid contact with the skin and eyes.

S26-36 In case of contact with eyes, rinse

immediately with plenty of water and seek medical advice. Wear suitable protective

clothina.

S39 Wear eye protection.

Use only in well ventilated areas.

Country Specific Information: Germany

WGK: No hazard to waters.

ID-Number: 1345 KBwS-Decision

#### 16. OTHER INFORMATION

Limitations of Use of Product: For industrial or professional use only.

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