Version: 4.0

TITANIUM FA SAFETY

DATA SHEET based on Commission Regulation

(EU) 2020/878 of 18/06/2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Date of preparation: 2010.02.02 **Update date: 2022.12.21**

Section 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

1.1. Product identifier: TITANIUM FA photocatalytic silicate paint.

1.2. Relevant identified uses of the substance/mixture and uses advised against: Water-soluble dispersion paint based on polymer resin and potassium silicates intended for painting building surfaces inside and outside. Use advised against: no information.

1.3. Details of the supplier of the safety data sheet: PIGMENT Sp. j. ul. Pyrzycka 23 A, 70-892 Szczecin, phone: +48 91 462 10 20, +48 91 462 11 86, e-mail: biuro@farbypigment.pl

1.4. Emergency telephone number: 998 or 112, or the nearest local unit of the State Fire Service (PSP).

Section 2. HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture: -

the product is not classified as dangerous according to Regulation (EC) No 1272/2008.

Data on environmental impact: none according to available information.

2.2. Labelling elements: not required.

2.3. Other hazards: The product does not meet the PBT or vPvB criteria.

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characteristics: Water-soluble preparation based on a dispersion of copolymer and potassium silicates, containing auxiliaries, mineral fillers, organic/inorganic pigments and water.

3.1. Substances

ingredients	% m/m	index number EC number	CAS no.
Silicic acid potassium salt 76-1	3 -7	not applicable 215-199-1	1312-

inorganic substance of the UVCB type Registration number: 01-2119456888-17-xxxx According to Regulation (EC) No. 1272/2008: H300 - the product is not classified as hazardous.

General hazard: A
substance with a MR module of > 3.2 is not classified as hazardous under applicable regulations.

Section 4. FIRST AID MEASURES 4.1. Description

of first aid measures: Accidental ingestion: give water to drink. Do not induce vomiting. If feeling unwell or nauseous, seek medical advice. Inhalation: remove to fresh air. Skin contact: wash skin with soap and water, change contaminated clothing. Eye contact: rinse immediately with plenty of running water for at least 10 minutes. Remove contact lenses, if present. If irritation occurs, seek medical advice.

4.2. Most important symptoms and effects, both acute and delayed: no data available.

4.3. Indication of any immediate medical attention and special treatment needed contact with the injured party: no data available.

Section 5. FIRE FIGHTING MEASURES

5.1. Extinguishing media: All commonly available extinguishing media are acceptable.
5.2. Special hazards arising from the substance or mixture: no data available.
5.3. Advice for firefighters: Non-flammable product. In case of fire it can be mixed with water. At elevated temperatures it reacts with aluminum, zinc, tin and their alloys with the release of hydrogen (explosion hazard).

Section 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures: protective gloves, goggles.
6.2. Environmental precautions: avoid release to the environment.
6.3. Methods and materials for containment and cleaning up: In case of leakage or spillage, collect the product in plastic or steel

containers. Remaining, non-collectible residues should be washed with water from contaminated surfaces. Do not use aluminum or galvanized containers. Do not allow the product to enter sewage, soil, water reservoirs.

6.4. References to other sections: none.

Section 7. HANDLING AND STORAGE OF SUBSTANCES AND MIXTURES

7.1. Precautions for safe handling: Avoid direct contact with skin, mucous membranes and clothing. After finishing work, thoroughly wash skin contamination with soap and water. Ventilate rooms during work and before putting into service ventilate until the odor disappears.

7.2. Conditions for safe storage, including any incompatibilities: Store in tightly closed containers, in a dry and cool place. Do not use aluminum, galvanized or tinned containers. Protect from direct sunlight and other sources of heat and temperatures below +5°C.

7.3. Specific end use(s): no data available.

Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters: no data available.
8.2. Exposure controls Ensure

adequate ventilation during work. a) Respiratory protection:
use dust masks when spraying. b) Hand protection: work gloves. c) Eye protection: safety glasses.
d) Skin protection: work overalls or apron,
head covering.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

- Appearance:	**liquid, white or color according to the card mild, characteristic**
- Smell:	**not marked**
- Odor threshold:	
- pH value:	**11-12**

- Melting point/freezing point: not applicable
- Boiling point/range not applicable
- Flash point: not applicable
- Evaporation rate not applicable
- Flammability: non-flammable
- Upper/lower flammability limit: not applicable
- Vapor pressure: not applicable

- Vapor density:	not applicable
- Relative density:	approx. 1.5 g/cm3
- Solubility in water:	dilutable
- Partition coefficient n-octanol/water:	
	no data no
- Autoignition temperature:	data no data
- Decomposition temperature:	no data no
- Viscosity:	data no data
- Vapor density:	not applicable
- Evaporation rate:	not applicable
- Explosive properties:	
- Oxidizing properties:	

9.2. Other information: freezes below 0ºC.

Section 10. STABILITY AND REACTIVITY

10.1. Reactivity: the product is stable, when used in accordance with the instructions, it does not decompose. dowi.

10.2. Chemical stability: releases **CO2 when reacting with acids .**

10.3. Possibility of hazardous reactions: no data

10.4. Conditions to avoid: no data available

10.5. Incompatible materials: concentrated acids, alkalis, alkali metals, aluminium, zinc, tin and their alloys.

10.6. Hazardous decomposition products: At elevated temperatures, reacts with aluminum, zinc, tin and their alloys, releasing hydrogen (explosion hazard).

Section 11. TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes defined in Regulation (EC) No 1272/2008. no data available.

11.2. Information on toxicological effects: There are no known data on the harmful effects of the product on human health. Due to the alkaline nature of the preparation, contact with skin may cause irritation of the epidermis in sensitive individuals, manifested by redness.
If ingested, it causes irritation of the mouth, esophagus and stomach. Spray mist irritates the respiratory tract. Direct contact causes eye burns and conjunctival irritation.

Section 12. ECOLOGICAL INFORMATION

Do not allow the product to enter sewage and groundwater. No data on the impact on the natural environment. No data on the biodegradability of the product.
12.1. Toxicity: silicic acid sodium salt Acute toxicity
to fish: LC50>146 mg/l/48h (Leucidus idus)
Toxicity to algae: Scenedesmus subspicatus, EC50>207mg/l/72h (biomass), EC50>345.4 mg/l/72h (growth)

Toxicity to microorganisms: ECO>10000mg/l/18h (pH 7.6-7.8) Pseudomonas putida).
12.2. Persistence and degradability: not applicable to inorganic substances.
12.3. Bioaccumulative potential: low potential.
12.4. Mobility in soil: no data available.
12.5. Results of PBT and vPvB assessment: does not meet the criteria according to REACH regulation.
12.6. Endocrine disrupting properties: no data available.
12.7. Other adverse effects: no data available.

Section 13. WASTE HANDLING

13.1. Waste disposal methods: Waste classification according to the Regulation of the Minister of Environment of 9 December 2014 on the waste catalogue (Journal of Laws of 2014, item 1923): small quantities, code - 20 01 28, larger quantities, code - 08 01 12. According to the regulation, product waste is not hazardous waste. Waste disposal and neutralisation should take place in accordance with local regulations in force in a given area. Used packaging: waste category - Q5, code - 15 01 02. Waste disposal process of the preparation and packaging: D5 - storage in landfills or D10 - thermal processing in installations (incineration).

Section 14. TRANSPORT INFORMATION

14.1. UN number or ID number: not applicable.
14.2. UN proper shipping name: not applicable.

14.3. Transport hazard class(es): not applicable.
14.4. Packing group: not applicable.
14.5. Environmental hazards: the product does not pose a hazard to the environment.
14.6. Special precautions for user: no data available.
14.7. Bulk maritime transport in accordance with IMO instruments: no data available.

Section 15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:
-Regulation (EC) No 1907/2006
of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as amended.

-Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
-Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) of 20 January 2009, as amended.
-Regulation of the Minister of the Environment of 9 December 2014 on the waste catalogue (Journal of Laws of 2014, item 1923).
-Act of 25 February 2011 on chemical substances and their mixtures (Journal of Laws 2011 No. 63 item 322), as amended.

-Regulation of the Minister of Economy of 10 October 2013 on the application of restrictions specified in Annex XVII to Regulation No. 1907/2006 (Journal of Laws of 2013, item 1314), as amended.
-Act of 14 December 2012 on waste (Journal of Laws of 2013, item 21), as amended.
-Regulation of the Minister of Labour and Social Policy of 6 June 2014 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2014, item 817).
-Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (OJ EU L 133, 31.05.2010).
-All other national and regional regulations relating to the transport or disposal of waste should be checked on a case-by-case basis.

15.2. Chemical safety assessment: no assessment carried out.

Section 16. OTHER INFORMATION

Abbreviations and
acronyms: vPvB (Substance) Very Persistent and very Bioaccumulative PBT (Substance) Persistent, Bioaccumulative and Toxic

DL50 – Lethal dose – a dose at which 50% of the tested animals die within a specified time interval.
CL50 – Lethal concentration –
a concentration at which 50% of the tested animals die within a specified time interval. CE50 – Effective concentration – an effective
concentration of a substance causing a response at a level of 50% of the maximum value. ADR – European agreement
concerning the international carriage of dangerous goods by road (Agreement on Dangerous Goods by Road).
RID – Regulations Concerning the International Transport of Dangerous Goods by Rail

IMDG – International Maritime Dangerous Goods Code

IATA - International Air Transport Association

CAS - the number assigned to a chemical substance in the Chemical Abstracts Service WE
- a reference number used in the European Union to identify hazardous substances, in particular those registered in the European Inventory of Existing Commercial Chemical Substances

UN Number – The four-digit identification number of a material on the UN Hazardous Materials Inventory.

MR - molar modulus, defined as the molar ratio of SiO2 to K2O.
UVCB - substances of unknown or variable composition, complex reaction products or bio-logical materials.

- Information evaluation method (according to Article 9 of Regulation (EC) No 1272/2008) used for classification: computational.
- Changes in this update: alignment with Commission Regulation (EU) 2020/878 of 18/06/2020.
- Card prepared in accordance with Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). - Data sources: European Chemicals Agency (ECHA) and safety data sheets of raw material suppliers.

- The above data is based on our current knowledge. However, it cannot constitute a guarantee for specific product features and cannot be considered as legally binding commercial agreements.