
I. COMPANY AND PRODUCT IDENTIFICATION

Product Name	TITANIUM OXALATE
Substance Name	Titanyl Potassium Oxalate
Use	For textile treatment as mordant.
Use restriction	None
Supplier	GREEN'ING Hameau des Douze 34600 BEDARIEUX FRANCE
Telephone	+33 (0)6 62 49 61 62
Email	contact@green-ingredients.com
Emergency telephone	ORFILA + 33 (0)1 45 42 59 59

2. HAZARDS IDENTIFICATION

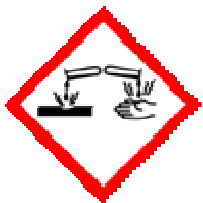
This product is stable in the handling and storage conditions recommended in section 7.
Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.

2.1 Classification of the substance / mixture

Classification according to Regulation (EC) No 1272/2008

According to EC Directive 1272/2008 :	H302 Harmful if swallowed H312 Harmful in contact with skin H318: Causes serious eye damage
According to Directive 67/548/EEC :	Xn – Harmful R21/22 Harmful in contact with skin and if swallowed.
According to Directive 1999/45/EC :	NA

2.2 Labeling according to GHS & Regulation (EC) No 1272/2008



Signal Words: Danger

Hazard Statements:

H302 Harmful if swallowed
H312 Harmful in contact with skin
H318: Causes serious eye damage

Precautionary Statements:

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
 P271: Use only outdoors or in a well-ventilated area
 P280: Wear protective gloves/protective clothing/eye protection/face protection.
 P301+P312: IF SWALLOWED: Call a POISON CENTER/doctor/... if you feel unwell.
 P302+P352: IF ON SKIN: Wash with plenty of 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.
 P310: Immediately call a POISON CENTER/doctor/...
 P312: Call a POISON CENTER/doctor/.../if you feel unwell.
 P321: Specific treatment (see ... on this label).
 P362+P364: Take off contaminated clothing and wash it before reuse.
 P501: Dispose of contents/container to ...

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical nature of the preparation It is refined from bauxite, and acetic acid is used as a purifying agent.

Substances	Substance Name	CAS #	EINECS / EC #
	Dipotassium titanium oxide dioxalate	14481-26-6	238-475-3

4. FIRST AID MEASURES

When in doubt or if symptoms persist, seek medical attention.
 Do not give anything by mouth to an unconscious person.

Skin Remove contaminated clothing and wash the skin with water and soap.
Eyes Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if ill or irritation develops.
Ingestion Rinse mouth. If victim is conscious and alert, give 2-3 cups of water. If symptoms develop, get medical attention. Get medical attention if ill effect develops.
Inhalation Move individual away from exposure and into fresh air. Get medical advice if cough or other symptoms appear.

Main symptoms and effects, both acute and delayed :

Ingestion Accidental ingestion of soluble salts of oxalic acid leads to systemic poisoning by hypocalcaemia (tremor, convulsions, coma, coagulation disorders, etc.) and notably acute nephritis with precipitation of insoluble calcium oxalate crystals in the renal tubules.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media : CO₂, foam, powder or water spray. Irritating smoke may develop. A self-contained breathing apparatus is recommended. If water is used, limit its quantity to avoid diffusion to environment. The products of combustion are carbon oxides (CO, CO₂).

6. ACCIDENTAL RELEASE MEASURES

Personal: Use personal protective equipment.

Methods of cleaning: Clean up spills, collect in an appropriate container and bring to the nearest waste disposal centre.

7. HANDLING AND STORAGE

Handling: Handle in well-ventilated areas. Capture any dust if necessary. Do not breathe dust.

Keep away from heat. Keep away from sources of ignition.

Wash hands after handling.

Smoking, eating and drinking are prohibited on the premises on which the substance is used.

Storage: Keep container closed in a cool and well-ventilated area. Keep away from incompatibles such as oxidizing agents.

8. PERSONAL PROTECTION

Wear appropriate protective equipment: Safety glasses, gloves, respiratory and clothing protections.

In extreme exposure circumstances, use a full-face respirator.

OELV (Directive 98/24/EC) : No data available

OELV (Directive 2004/37/EC) : No data available

NBLV (Directive 98/24/EC) : No data available

Other limit values : In the United States, the average exposure limit to oxalic acid in the air of work premises was set in 1982 by the ACGIH at 1 mg.m⁻³.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (colour)	White powder
Odor	Odorless
pH	2.4 – 4 at
Solubility	Very good solubility in water 63 g/L (20°C), 1190 g/L (70°C)
Auto ignition	Not available
Melting point	330°C
Density	Not available

10. STABILITY AND REACTIVITY

Stability: stable in normal conditions of use and stocking.

Reaction with oxidisers and strong acids.

Avoid direct sunlight, high temperature, high humidity and high piling

11. TOXICOLOGICAL INFORMATION

Skin irritation: Can cause irritation to skin. Prolonged or repeated skin contact may also cause dermatitis.

Eyes: Dust can cause eye irritation.

Inhalation: Dust can cause upper respiratory tract (nose, throat) irritation. Symptoms may include dryness of throat, dry or productive cough, shortness of breath, chest tightness. Prolonged or repeated inhalation may cause an increase in phlegm production and chronic bronchitis, asthma, pulmonary fibrosis, pneumothorax, pneumoconiosis. Symptoms may include difficulty breathing, and coughing.

12. ECOLOGICAL INFORMATION

No data available.

13. DISPOSAL CONSIDERATIONS

Follow local waste disposal regulations.

14. TRANSPORT INFORMATION

Product not classified as dangerous regarding to transport regulations.

15. REGULATORY INFORMATION

Follow local and national regulations.

United States:

Toxic Substance Control Act (TSCA): Listed

Superfund Amendments and Reauthorization Act (SARA 302): Not listed

Superfund Amendments and Reauthorization Act (SARA 311/312): Not listed

Superfund Amendments and Reauthorization Act (SARA 313): Not listed

European Union:

European Inventory of Existing Chemical Substances (EINECS): 238-475-3

Canada:

Canadian Domestic Substances List (DSL): Listed

Canadian Non-Domestic Substances List (NDSL): Not listed

Japan:

PRTR Law : Not listed

16. ADDITIONAL INFORMATION

This MSDS was established according to Regulation (EC) 1907/2006 REACH and Regulation (EC) 1272/2008 CLP.

The information of this MSDS corresponds to the current state of our knowledge and satisfy the national legislation and of the European Union. They complete the specification sheets of use but do not replace them.

Users should make their own investigations to determine the suitability of the information for their particular purposes. Our company shall not be held liable for any damage resulting from handling of from contact with the above product.