


Material Safety Data Sheet

Section 1 – Product and Company Identification

Product Name	Potassium titanium oxalate
Chemical Name	Potassium titanium oxalate
Chemical Formula	$C_4K_2O_9Ti \cdot 2H_2O$
Company Identification	Showa Kako Corporation 18-23, Yoshino-cho, Suita-city, Osaka 564-0054 JAPAN
Telephone Number	+81-6-6384-1501
24-hour Emergency Telephone Number	+81-6-6384-1501
Fax Number	+81-6-6384-2287

Section 2 – Hazards Information

GHS Classification	
Physical Hazards	Not classified
Health Hazards	
Acute toxicity (oral)	Category 3
Environmental Hazards	Not classified
GHS Symbol	
Signal Word	Danger
Hazard Statements	
H301	Toxic if swallowed
Precautionary Statements	
P264	Wash hand and face, etc. thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
Response Statements	
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P330	Rinse mouth.
Storage Statements	
P405	Store locked up.
Disposal Statements	
P501	Dispose of contents/ container through a waste

	management company authorized by the local government.
--	--

Section 3 – Composition and Information on Ingredients

Substance/Mixture	Substance
Chemical Name	Potassium titanium oxalate
CAS #	14481-26-6
Percent	95.0 - 102.0%

Section 4 – First Aid Measures

Eyes	Immediately flush eyes with copious amounts of water for at least 15 minutes. Consult with ophthalmologist.
Skin	Immediately flush skin with copious amounts of water for at least 15 minutes.
Ingestion	Wash out mouth with water. Induce vomiting. Call a physician.
Inhalation	Remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Call a physician if necessary.

Section 5 – Fire Fighting Measures

Flash Point	No data found
Autoignition	None
Explosion Limits	Lower No data found
	Upper No data found
Extinguish Media	Water, powder, carbon dioxide, foam
Firefighting Instructions	Avoid non-firefighting equipped personnel to enter. Extinguish upwind from the fire wearing appropriate protective gear.

Section 6 – Accidental Release Measures

Spills/ Leaks	Evacuate area. Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves. Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.
----------------------	---

Section 7 – Handling and Storage

Handling	Wear appropriate protective gear. Do not contact with eyes, skin and on clothing. Do not inhale. Handle with care. Wash mouth and hand after handling the material.
-----------------	---

Storage	Keep container tightly closed. Avoid such conditions as direct sunlight, high temperature, high humidity and high piling. Store indoor.
----------------	---

Section 8 – Exposure Controls, Personal Protection

Engineering Controls	Facilities storing or utilizing the material should be equipped with an eye wash facilities and a safety shower. Use adequate ventilation to keep airborne concentrations low.
Exposure Limits	No data found
Personal Protective Equipment	
Eyes	Safety goggles
Skin	Rubber gloves
Clothing	Protective clothing and rubber boots
Respirators	Anti-dust mask

Section 9 – Physical and Chemical Properties

Physical State	Crystalline powder
Appearance	White
Odor	Odorless
Boiling Point	No data found
Melting Point	330°C (degradation)
Flash Point	No data found
Autoignition	None
Explosibility	None
Vapor Pressure	No data found
Vapor Density	No data found
Solubility	Water: 6.3 g/100 mL (20°C), 119 g/100 mL (70°C) Soluble in ethylene glycol, insoluble in alcohol and acetone.
Molecular Weight	354.13

Section 10 – Stability and Reactivity

Stability	Stable
Conditions to avoid	Direct sunlight, high temperature, high humidity and high piling
Incompatibilities with Other Material	No data found
Hazardous Decomposition Product	No data found
Hazardous Polymerization	Will not occur

Section 11 – Toxicological information

RTECS #	No data found
LD50/ LC50	No data found
Carcinogenicity	No data found
Mutagenicity	No data found
Reproductive Effects	No data found
Teratogenicity	No data found
Immunology	No data found
Irritation	No data found

Section 12 – Ecological Information

Ecotoxicity	No data found
Environmental Standard	No data found

Section 13 – Disposal Consideration

Disposal Method	Federal (national), state or local laws and regulations will determine the proper waste disposal method.
Regulation Method	Federal (national), state or local laws and regulations

Section 14 – Transport Information

Shipping Name	Not applicable
Hazard Class	Not applicable
UN #	Not applicable
Packing Group	Not applicable

Section 15 – Regulatory Information

United States	TSCA	On the list
EC	EINECS	238-475-3
Canada	WHMIS	No data found
Japan	PRTR law	Not on the list

Section 16 – Other Information

MSDS Creation Date	July 23, 2013
Revised Date	-
Revised No.	1st

This information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine

the suitability of the information for their particular purposes. In no event shall Showa Kako be liable for any claims, losses, or damage of any third party or for lost profits or any special, incidental, consequential or exemplary damages, howsoever arising, even if Showa Kako has been advised of the possibility of such damages.