


Safety Data Sheet – KEMOX Titanium Dioxide

1. Product and Company Identification

Product Name	KEMOX Titanium Dioxide	
Other Product Name(s)	KEMOX RC 800 / RC 800 PG / RC800PG+ / RC 808 / RC 822 / RC 822+ / RC 813 / RC 820 / RC 829	
Product Use	For manufacturing paints and other industrial formulation purposes. Not for use as a consumer product.	
Manufacturer or Supplier	<p>Manufacturer</p> <p>The Kerala Minerals & Metals Ltd., Sankaramangalam, Chavara, Koliyam-691583 Phone 491(476) - 2686722 to 2686733 Fax: + 91(476) - 2680101, 26867217 E-mail: kmml@md3.vsnl.net.in</p>	<p>Distributor</p> <p>R.E. Carroll, Inc. 1570 North Olden Avenue Trenton, NJ 08638-3204 USA Phone: 609-695-6211 Fax: 609-695-0102 Email: RachelL@recarroll.com</p>
Emergency Telephone Number	<p>In the US: For a transport accident or leak, fire or major spill, call CHEMTREC, (800) 424-9300. For International CHEMTREC assistance, call 1-703-527-3887 (collect calls accepted).</p>	

2. Hazards Identification

Emergency Overview: A fine white powder that may cause respiratory cancer with prolonged exposure by inhalation.

OSHA Regulatory Status	Hazardous
OSHA Classification	Carcinogenicity 2
WHMIS Regulatory Status	Hazardous (WHMIS 2015)
WHMIS Classification	Carcinogenicity 2
Signal Word	WARNING
Hazard Statements	May cause cancer by inhalation.
Precautionary Statements	<p>Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.</p> <p>Wear protective gloves/protective respiratory protection. clothing/eye protection/face protection</p> <p>If exposed or concerned: Get medical attention.</p> <p>Store locked up. Dispose of contents/container to an approved waste disposal facility.</p>
Label Symbols	
Other Hazards Not Specified by OSHA	None
% of Unknown Toxicity	0%

Potential Health Effects:

Skin	Mild irritation possible
Eyes	May possibly irritate like most dusts
Ingestions	Not considered a normal route of entry

Inhalation	Might be mildly irritating like most dusts.
Chronic Effects	Prolonged inhalation may cause respiratory cancer (based on animal data developed by IARC).
Environmental Effects	Not specified.

Ingredients found on established carcinogen lists:

Ingredient	NTP Status	IARC Statue	OSHA List
Titanium dioxide	----	2B	----

3. Composition / Information on Ingredients

Ingredient	CAS #	Wt. %*
Titanium Dioxide (Different grades)	13463-67-7	80 - 96
Aluminum Hydroxides ¹	21645-51-2	1.2 – 5
Amorphous Silica ²	7631-86-9	<8
Zirconium Dioxide ³	1314-23-4	<1.8

¹ Present in above all grades
²Present in RC 808, RC 822, RC822+, RC 813, and RC 820
³ Present in RC 808 and RC 829
The products also contain a fractional percentage (<1%) of unspecified organic additives classed as trade secrets.

*Percentages are trade secret

4. First Aid Measures

Skin	Wash with soap and water. Seek medical advice if a rash should ever develop.
Eyes	Flush with large amounts of water. If irritation develops, seek medical attention.
Ingestions	No adverse health effects anticipated by this route during proper industrial handling.
Inhalation	Move to fresh air. Get medical attention for any discomfort.
Advice to Physician	Treat symptomatically.

5. Fire Fighting Measures

Extinguishing Media:	Use any media appropriate for surrounding fire
Fire/Explosion Hazards:	Move containers away from fire if safe to do. Containers may burst open if subject to fire.
Fire Fighting Procedures:	Use normal procedures for surrounding fire.
Flammable Limits:	Not applicable
Flash Point	Not applicable
Auto ignition Temperature:	Not applicable
Hazardous Combustion Products:	None noted

6. Accidental Release Measures

Personal Precautions:	Wear respiratory protection as indicated in Section 8.
Containment:	Not usually required. Prevent material from entering sewers or waterways.
Clean Up:	Sweep up and place into containers for reuse or disposal. Be aware of potential hazard presented by static discharge.

Notification Requirements:	See Section 15
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7. Handling and Storage

Handling:	Material should only be handled by trained individuals. Wear proper protective equipment. Transfer material slowly to minimize potential of a static electricity discharge or the creation of dusts.
Storage:	Store in sealed containers in a cool, dry area. Product becomes slippery when wet. Keep away from oxidizing agents, strong acids or bases. Avoid excessive heat.

8. Exposure Controls / Personal Protection

Engineering Controls:	Use local exhaust to keep air below permissible levels.
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Personal Protective Equipment:

Eyes and Face:	Glasses with side shields or goggles.
Respiratory:	Use respirator with cartridges to remove fine particles, in accordance with an approved Respiratory Protection Program.
Hands, Arms, and Body:	Hands: Wear appropriate chemical resistant gloves. Glove material: Nitrile rubber Layer thickness: 3 to 8 mm. Change weekly. Use of sealed transfer equipment can be used. Body: Wear chemical resistant clothing. Change into 'street clothes' before going home.
Other	Eyewash or source of running water in case of accidental exposure.

Exposure Guidelines:

Ingredient	ACGIH TLW	ACGIH STEL	OSHA PEL	OSHA STEL
Titanium dioxide (Respirable)	2.5 mg/m ³	---	---	---
Amorphous silica			80mg/m ³ / % SiO ₂	

9. Physical and Chemical Properties

Appearance & Physical State	Fine white powder
Odor:	None
Odor Threshold:	None
pH	None (solid)
Specific Gravity (Relative density):	3.7 – 4.1
Initial Boiling Point & Range:	5381.6 °F (2972 °C)
Melting Point /Freezing Point:	3326 °F (1830 °C)
Evaporation Rate:	Not determined
Percent Volatile:	Solid
Solubility in Water	Not soluble
Vapor Density:	Not determined
Vapor Pressure:	Not determined
Upper/ Lower Flammable Limits:	None
Flash Point	None
Auto ignition Temperature:	None
Flammability (solid, gas)	None
Octanol/water partition coefficient	None

Decomposition temperature	Not determined
Viscosity	Not applicable (solid)

10. Stability and Reactivity

Stability:	
Conditions to Avoid:	Store away from oxidizing agents, strong acids or bases. Excess heat
Materials to avoid	Store away from oxidizing agents, strong acids or bases
Hazardous Polymerization:	Will not occur.
Hazardous Decomposition Products	Carbon monoxide and dioxide

11. Toxicological Information

Eye:	May cause irritation similar to any dry dust.
Skin:	Prolonged exposure may cause mild irritation. LD50 dermal rabbit > 10,000 mg/kg.
Oral:	LD50 Oral rat > 10,000 mg/kg.
Inhalation:	Not determined
Chronic:	IARC 2B. possibly carcinogenic to humans based on animal data.

12. Ecological Information

Acute ecotoxicity:	Fish: LC50 - other fish - > 1,000 mg/l - 96 h Invertebrates: EC50 - Daphnia magna (Water flea) - > 1,000 mg/l - 48 h
Chronic ecotoxicity	No data presented.
Other information	Degradable.

13. Disposal Considerations

RCRA Status	Not a "hazardous waste".
Disposal Method:	Dispose of in accordance with all applicable regulations.

14. Transportation Considerations

DOT Proper Shipping Name:	Not regulated
DOT Primary Hazard Class	None
DOT UN / NA Number:	None
DOT Packing Group	None
TDG (Canada)	Not regulated
IMDG (International water)	Not regulated
ICAO (Air transport)	Not regulated

15. Regulatory Information

UNITED STATES:

Toxic Substances Control Act (TSCA)

TSCA Inventory Status:	Ingredients listed on TSCA chemical inventory
Other TSCA Issues:	None

SARA Title III/CERCLA

Ingredients with "Reportable Quantities" (RQs) and/or "Threshold Planning Quantities" (TPQs).

Ingredient	SARA/CERCLA RQ (lb.)	SARA EHS TPQ (lb.)
No ingredients listed in this section	---	---

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center [(800) 424-8802] and to your Local Emergency Planning Committee.

SARA 311 Hazard Class:	Carcinogenicity 2
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SARA 313 Toxic Chemicals:

The following ingredients are SARA 313 "Toxic Chemicals" and may be subject to annual reporting requirements. CAS numbers and weight percents are found in Section 2.

Ingredient	Comment
No ingredients listed in this section	----

State Right-To-Know

May be in addition to the ingredients found in Section 2,

Ingredient	Weight %	Comment
Titanium dioxide	96	California Prop 65 carcinogen

Additional Regulatory Information:	All ingredients are on the Canadian DSL
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16. Other Information

- Keep out of the reach of children.

Issue Date:	May 5, 2023
Previous Issue Date:	New SDS
Changes from previous version:	New SDS

National Fire Protection Assoc. (NFPA) Classification:

4 = Severe; 3 = Serious; 2 = Moderate; 1 = Slight, 0 = Minimal

2 Health 0 Flammability 0 Reactivity

Hazardous Materials Information Systems (HMIS):

4 = Extreme; 3 = High; 2 = Moderate; 1 = Slight; 0 = Insignificant

1* Health 0 Flammability 0 Physical Hazard