

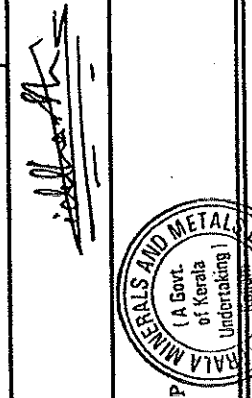
**The Kerala Minerals and Metals Ltd.**  
 (A Govt. Of Kerala Undertaking)  
 (An ISO 9001, ISO 14001, OHSAS 18001 & SA 8000 Certified Company)  
 SANKARAMANGALAM, CHAVARA-691 583  
 KOLLAM, KERALA, INDIA.

Phone : +91- 476-2651215 to 2651217  
 Fax : +91- 0476-2680101, 2686721

E-mail : contact@kmml.com, URL : www.kmml.com



CIN-U14109KL1972SGC002399

<b>Shipper's Certification for Non - Hazardous Cargo</b>		
DTDC/AWB no.	Airport of Dep. COCHIN	Airport of Dest USA
MAWB no.	<p>This is to certify that the articles / substances of this shipment are properly described by name that they are not listed in the current edition of IATA / Dangerous Goods Regulations (DGR), Alphabetical List of Dangerous Goods, nor do they correspond to any of the hazard classes appearing in the DGR, Section 3, classification of Dangerous goods and that they are known not to be dangerous, i.e., not restricted. Furthermore, the shipper confirms that the goods are in proper condition for transportation on passenger carrying aircraft (DGR, 8.1.23.) of International Air Transport Association (IATA)</p>	
Marks and Number of Packages	<p>Proper description of goods / give technical name          (Trade Names not Permitted)          Specify each article separately)</p>	
Shipper & Consignee Address on packages	<p>TITANIUM DIOXIDE RUTILE GRADE KEMOX RC-822          TITANIUM DIOXIDE RUTILE GRADE KEMOX RC-800PG</p>	
SHIPPER: THE KERALA MINERALS AND METALS LTD SANKARAMANGALAM, CHAVARA-691583, KOLLAM, KERALA, INDIA	<p>Net Quantity per package  02 Kg 02 KG</p>	
CONSIGNEE: Chris Lambert 4564 Ledgewood Drive Medina, Ohio 44256 USA		
TOTAL NUMBER OF PACKAGES	<p>Four bottles containing 01 kg of each Titanium Dioxide Rutile Grade          KEMOX RC-822 &amp; KEMOX RC-800PG</p>	
	NET WEIGHT	04 Kg
	GROSS WEIGHT	05 Kg
Name & Address of Shipper THE KERALA MINERALS AND METALS LTD SANKARAMANGALAM, CHAVARA-691583, KOLLAM, KERALA, INDIA	<p>FULL NAME &amp; DESIGNATION          K.S. SIDHARTH          MARKETING OFFICER</p>	
	<p>SIGNATURE &amp; COMPANY STAMP</p> 	

To be completed in duplicate duly signed & stamped by shipper

ONE COPY to be filed with the AWB copy at ORIGIN & ONE COPY to accompany DEST: AWB

Attach Lab Analysis Report, Material Safety Data Sheet for Bulk-Drugs / medicines / Chemicals / Cosmetics.

Pls. certify that no hidden dangerous goods are stored or filled in any components or spare parts.

E.g., Plastic components / Transformer Spares / Elect& Electronic Appliances / for Plastic & Rubber (specify PVC /etc. Films non-nitro-cellulose base) /

Please note that MSDS is available at [www.msdssearch.com](http://www.msdssearch.com)

**THE KERALA MINERALS AND METALS LTD**  
 (A Government of Kerala Undertaking)  
 Titanium Pigment (TP) Unit  
 Sankaramangalam, chavara-691583, Kollam, Kerala, India  
 phone: 0476-2651204, 2651396  
 E mail: [gst@kmml.com](mailto:gst@kmml.com) web: [www.kmml.com](http://www.kmml.com)



**Goods and Service Tax**

General Information	
Name of Organisation	THE KERALA MINERALS AND METALS LTD
Address	SANKARAMANGALAM, CHAVARA . KOLLAM
City	KOLLAM
State	KERALA
PIN code	691583
Telephone No	0476-2651204 , 0476-2651396
E-Mail ID	<a href="mailto:managerfinance@kmml.com">managerfinance@kmml.com</a> . <a href="mailto:aog@kmml.com">aog@kmml.com</a> . <a href="mailto:gst@kmml.com">gst@kmml.com</a> .
Type of Business	Manufacture
Permanent Account Number (PAN)	AAACT8118R
Corporate Identification No (CIN)	U14109KL1972SGC002399
GST Registration Details	
GST NUMBER	32AAACT8118R1ZY
GST Application Reference Number	AA3202170178110
State of Enrolment of GST Registration	KERALA
State code	32
Bank Account Information	
Bank Name	SBI
Branch	CHAVARA
Account Type	CC
Account No	67208878744
RTGS/IFSC Code	SBIN0070055
Product Details	
Titanium Dioxide	28230010
Titanium Tetrachloride	28273990
Titanium Sponge	81082000
Titanium Oxy Chloride	28273990
Magnesium Chloride	28273100
Unburned Petroleum Coke	27131100
M S Scrap	72041000
GST Team - Contact Person	
I. Name	ANEESH M
Designation	MANAGER (ACCOUNTS)
Telephone No	+91-476-2651204
Email Address	<a href="mailto:managerfinance@kmml.com">managerfinance@kmml.com</a>
ICICI	KOLLAM KADAPPAKADA BRANCH
CA	626605007465
ICIC00006266	SBIN0070054

TITANIUM DIOXIDE

Auto flammability : Not applicable (Not a flammable material)  
 Explosive properties : Not applicable (Not a flammable material)  
 Oxidising properties : This is a fully oxidized mineral product.  
 Vapour pressure : Not applicable (Material is a solid)  
 Relative density : 3.6 - 4.2  
 Partition coefficient : Not relevant for solids  
 Water solubility : Insoluble  
 Fat solubility : Insoluble  
 Other data : Nil

10. STABILITY AND REACTIVITY

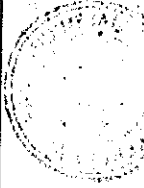
Stability : Chemically stable and non-reactive  
 Conditions to avoid : Generation of dusting  
 Materials to avoid : Not applicable (Chemically stable)  
 Hazardous decomposition products : None (Chemically stable)

11. TOXICOLOGICAL INFORMATION

OCCUPATIONAL EXPOSURE LIMITS:

COMPONENT	MEL or OES	LIMIT
Titanium Dioxide	OES	10mg/m <sup>3</sup> total inhalable (8 hr TWA) 5 mg/m <sup>3</sup> respirable (8 hr TWA)
Aluminium Hydroxide	OES	10mg/m <sup>3</sup> total inhalable (8 hr TWA) 5 mg/m <sup>3</sup> respirable (8 hr TWA)

Skin : Titanium dioxide is not classifiable as a skin corrosive or irritant based on the studies.  
 Eye : Titanium dioxide was not classifiable as an eye irritant based on the studies.  
 Mutagenicity : Did not cause genetic damage in animals  
 Carcinogenicity : Titanium dioxide is listed by IARC as possibly carcinogenic to humans (Group 2B).  
 This listing is based on inadequate evidence of carcinogenicity in humans and sufficient evidence in experimental animals.  
 However, The conclusions of several epidemiology studies on more than 20000 TiO<sub>2</sub> industry workers did not suggest a carcinogenic effect of TiO<sub>2</sub> dust on the human lung.  
 Reproductive Toxicity : Titanium dioxide was not classifiable as a reproductive hazard based on test results animals.



*[Handwritten Signature]*

12. ECOLOGICAL INFORMATION

Available evidence indicates that titanium dioxide does not cause any significant adverse environmental effects.

Titanium Dioxide does not cause aquatic toxicity, not readily bio-degradable and does not bio-accumulate.

13. DISPOSAL

This product is not considered hazardous for disposal into sanitary landfill or industrial waste disposal landfill.

Please review appropriate national and local waste regulations.

14. TRANSPORT INFORMATION

UN Number : Not a regulated material

Packing group : Not a regulated material

Other : Not a regulated material

15. REGULATORY INFORMATION

CLASSIFICATION, PACKAGING & LABELLING REGULATIONS:

CLASSIFICATION : Not applicable (Not a hazardous substance or mixture)

RISK PHRASES : Not applicable (Not a hazardous substance or mixture)

SAFETY PHRASES : Not applicable (Not a hazardous substance or mixture)

CONTROL OF SUBSTANCES HAZARDOUS TO HEALTH REGULATIONS:

The Health & Safety Executive have assigned an occupational exposure standard to titanium dioxide and it is therefore a hazardous substance for the purpose of these regulations.

16. OTHER INFORMATION

Disclaimer : The information in the sheet was written based on the best knowledge and experience currently available.

Issue date : 25 April 2022

Issued by : Titanium dioxide Pigment Unit, The Kerala Minerals and Metals Ltd.



1. PRODUCT IDENTIFICATION

TRADE NAME : KEMOX RC 800 / RC 800 PG / RC800PG+ / RC 808 / RC 822 / RC 822+ / RC 813 / RC 820 / RC 829  
 CHEMICAL NAME : TITANIUM DIOXIDE (Different Grades)  
 SYNONYMS : TITANIUM (IV) OXIDE

2. HAZARD IDENTIFICATION

Classification : Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)  
 Label Elements: None  
 Other Hazards : No known Hazards  
 Specific Hazards : Occupational exposure to the substance or mixture may cause adverse health effects like irritation of skin, respiratory tract and eye. Frequent/Excessive inhalation of fume/dust may aggravate pre-existing respiratory conditions and develop lung diseases.

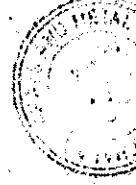
3. COMPOSITION/INFORMATION ON INGREDIENTS

MATERIAL OR COMPONENT	CAS NO.	Variation (%)	
		From	To
Titanium Dioxide (Different grades)	13463-67-7	80	96
Aluminum Hydroxides <sup>1</sup>	21645-51-2	1.2	5.0
Amorphous Silica <sup>2</sup>	7631-86-9	0	8.0
Zirconium Dioxide <sup>3</sup>	1314-23-4	0	0.8

<sup>1</sup> Present in above all grades  
<sup>2</sup> Present in RC 808, RC 822, RC822+, RC 813, and RC 820  
<sup>3</sup> Present in RC 808 and RC 829  
 The products also contain a fractional percentage of organic additives.

4. FIRST AID MEASURES

Inhalation : Move to fresh air. Get medical attention if any discomfort continues  
 Eye contact : Flush with large amounts of water. If irritation persists, seek medical attention.  
 Skin contact : Wash with water and mild soap.  
 Ingestion : No adverse health effects anticipated by this route during proper industrial handling.



**5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media : No fire hazard  
 Extinguishing media which must not be used : Not applicable since no fire hazard  
 Fire and explosion hazard : Precaution against the discharge of static electricity should be taken during powder handling operations.  
 Special protective equipment : No special protective equipment required

**6. ACCIDENTAL RELEASE MEASURES**

Use any feasible mechanical means (e.g. vacuum, sweeping) but avoid dusting during clean-up. Prevent run-off from entering storm sewers and ditches which lead to natural water ways.

**7. HANDLING AND STORAGE**

Handling : Minimising inhalation of dust and contact with skin. Take suitable precautions against the discharge of static electricity during powder handling operation  
 Storage : Store in dry area. Can cause slippery conditions when wet.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Exposure control : Good natural ventilation will be sufficient in most circumstances. Local exhaust ventilation may be necessary if airborne dust concentration approaches the occupational exposure standard.  
 Respiratory protection : Use approved dust respirator.  
 Hand protection : Gloves may be worn when prolonged or repeated contact is likely.  
 Eye protection : Safety glasses or goggles to protect against airborne dust  
 Skin protection : Individuals having sensitive skin may find it beneficial to use a barrier cream or moisturiser when excessive or prolonged contact with the skin is likely.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : Fine white powder  
 Odour : Odourless  
 pH : 5.5 - 8.5 (10 g/100 ml aqueous solution)  
 Boiling point/range : 2500 - 3000 °C Melting  
 point/range : 1830 - 1850 °C  
 Flash point : Not applicable (Not a flammable material)  
 Flammability : Not applicable (Not a flammable material)

