



MATERIAL SAFETY DATA SHEET

TITANIUM DIOXIDE

1. PRODUCT IDENTIFICATION			
TRADE NAME CHEMICAL NAME SYNONYMS		KEMOX RC 822 TITANIUM DIOXIDE PIGMENT	
2. COMPOSITION / INFORMATION ON INGREDIENTS			
MATERIAL OR COMPONENT	CAS NO.	EINECS NO.	%
Titanium Dioxide	13463-67-7	236-675-5	90 (typical)
Aluminium Hydroxides	21645-51-2	244-492-7	2.5(as Al ₂ O ₃)
Amorphous Silica	7631-86-9	231-545-4	3.0
The product also contains a fractional percentage of an organic additive. None of the chemical substances listed herein are considered a potential carcinogen in either the NTP Annual report on Carcinogens, the IARC Monographs, or by OSHA.			
3. HAZARD IDENTIFICATION			
<u>POTENTIAL HEALTH EFFECTS</u> INHALATION: Inert nuisance dust. Temporary drying effect or irritation of mucous Membranes, may result from excessive exposure. Exposure to dust may aggravate pre-existing respiratory conditions. EYES : Inert foreign body hazard only. SKIN : Non-corrosive, non-irritating, non-sensitising, may have a drying effect on the skin. INGESTION: No hazard during normal industrial use.			
4. FIRST AID MEASURES			



INHALATION : Remove to fresh air.

EYES : Flush with large amounts of water. If irritation persists, seek medical attention.

SKIN : 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. FIRE AND EXPLOSION

HAZARD Precaution against the discharge of static

: Electricity should be taken during powder handling operations.

SPECIAL PROTECTIVE EQUIPMENTS : None

6.ACCIDENTAL RELEASE MEASURES

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

7.HANDLING AND STORAGE

HANDLING: Minimising inhalation of dust and contact with skin. Take suitable precautions against the discharge of static Electricity during power handling operations. Store in dry area.

STORAGE: Can cause slippery conditions when wet.

8. EXPOSURE CONTROL / 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 : Use approved dust respirator if oes is or may be exceeded.:

PROTECTION

HAND PROTECTION : Gloves may be worn when prolonged or repeated contact is likely.

EYE PROTECTON : Safety glasses or goggles to protect against airborne dust.

SKIN PROTECTION Individualshaving sensitive skin may find it beneficial to use barrier cream or:moisturiser when excessive or prolonged contact with the skin is likely.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARENCE	Fine white powder.	pH	10% Slurry 6.3 (before addition of organic)
ODOUR	Odourless.	MELTING POINT RANGE	About 1830 degree celsious
BOLIING POINT RANGE	N.A	FLAMMABILITY	N.A
FLASH POINT	N.A	EXPLOSIVE PROPERTIES	N.A
AUTO FLAMMABILITY	N.A	VAPOUR PRESSURE	N.A
OXIDISING PROPERTIES	N.A	PARTITIONCOEFFECIENT (Octanol /water)	N.A
RELATIVE DENSITY	(H ₂ O=1) : 4.0	FAT SOLUBILITY (Solvent-Oil)-Specify	Insoluble
WATER SOLUBILITY	Insoluble	OTHER DATA	

10. STABILITY AND REACTIVITY	
STABILITY	Chemically stable and non-reactive.
CONDITIONS TO AVOID	N.A.
MATERIALS TO AVOID	N.A.
HAZARDOUS DECOMPOSITION PRODUCTS	None
11. TOXICOLOGICAL INFORMATION	
OCCUPATIONAL EXPOSURE LIMITS	
COMPONENT MEL or OES	LIMIT
Titanium Dioxide	OES 10 mg/m ³ total inhalable (8hr.TWA) 5mg/m ³ reparable (8hr TWA)
Aluminium Hydroxide (8 hr TWA)	OES 10mg/m ³ total inhalable (8hr TWA) 5mg/m ³ reparable
12. ECOLOGICAL INFORMATION	
Available evidence indicates that titanium dioxide does not cause any significant adverse environmental effects. Titanium dioxide does not bio accunulate.The 96 hr. TL for TIO ₂ is greater than 1000 ppm(NOOA)	
13. DISPOSAL	
This product is not considered hazardous for disposal into sanitary landfills or industrial waste disposal land fill. Pleaserevise appropriate national and local waste regulations.	
14.TRANSPORT INFORMATION	
UN NUMBER	None
PACKONG GROUP	None
OTHER	None
15.REGULATORY INFORMATION	
CLASSIFICATION, PACKAGEING & LABELING REGULATIONS	
CLASSIFICATIONS	N.A.



RISE PHRASES N.A.

SAFETY PHRASES N.A.

CONTROL OF SUBSTANCES HAZARDOUS TO HEALTH REGULATIONS

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

16. OTHER INFORMATION