

ISSUED: Jan 1, 2014

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MATERIAL SAFETY DATA SHEET

1.IDENTIFICATION OF THE SUBSTANCE AND MANUFACTURER

**TYPE: ANATASE TITANIUM DIOXIDE, RUTILE TITANIUM DIOXIDE
(COMMONLY: TITANIUM DIOXIDE)**

SHANGHAI TITANOS INDUSTRY CO., LTD

SHANGHAI HYYCHEM CO., LTD

No.3,Line 5350,Xinqu East Road, Zhonggu Development Zone, Qingpu Industrial Park,
Shanghai 201706, P.R. of China

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2.PRODUCT IDENTIFICATION

1) Trade name TITANIUM DIOXIDE

2) Chemical Family.....PIGMENTS

3) C.I. Generic name.....

4) C.I. Constitution No.....

5) CAS No..... 13463-67-7

6) EINECS NO.....236-675-5

3.HAZARDOUS COMPONENTS

HAZRD SYMBOL: **Xi**

4.HAZARD IDENTIFICATION

Special hazard identification for man and environment:

R22 - harmful if swallowed

R36_ irritant for eyes.

XN - harmful

S22 - do not breathe dust.

S24/25 - avoid contact with skin and eyes.

S26 - in case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28 - after contact with skin, wash at once with plenty water.

5.PHYSICAL DATA

Boiling Point..... more than 2500 - 3000C (4532 - 5432F)

Vapor Pressure..... Not Volat

Vapor Density..... Not Volat

Volatility.....None

Freeze Point.....Neglect

PH of Product..... 5.0-9.0

Solubility in water.....Insoluble

Odor.....None

Appearance.....WHITE ODORLESS POWDER

Specific Gravity..... 3.8-4.2

Evaporation Rate..... Not Volat.

Melting Point..... more than 1855C (3371F)
Setting Temperature..... From -30DC to 70DC.
Ignition temperature..... more than 200 DC

6..FIRE AND EXPLOSION DATA

Flash Point..... Will not burn

In case of fire.....Dry chemical, CO₂, water spray of regular form. Move containers from fire area if you can do it without risk. Apply cooling water to sides of containers that are exposed to flamer until well after fire is out.

Fire-Fighting Procedures.....Wear self-contained breathing Apparatus

Fire and Explosion HazardsSome of these materials may burn, But none of them ignites readily.

Flammable/Poisonous cases may accumulate in tanks and hopper cars. Some of these materials may ignite combustibles (wood, paper, oil, ETC)

7. HANDLING AND STORAGE

Well ventilation of warehouse and working place. Stores dry and cool, in close packing

8.REACTIVITY DATA

StabilityStable

Conditions to Avoid.....None

Hazardous Polymerization.....Will not occur.

9.HEALTH HAZARD DATA

Threshold Limit Value.....Oral,rat:LD50

Rabbit, Eyes: Mildly Irritation

Rabbit, Skin: Non- Irritation

Hazard Warnings.....If contact skin and eyes or inhaled, may be harmful. Fire may produce irritation or poisonous gases. Run off from fire control or dilution water may cause pollution.

10.EMERGENCY AND FIRST AID PROCEDURES

Move victim of fresh air; Call emergency medical care.

In case of contact with material, immediately flush skin or eyes with running water for at least 15 minutes.

Remove and isolate contaminated clothing and shoes at the site. Keep victim quiet and maintain normal body temperature.

11.SPECIAL PROTECTION INFORMATION

Respiratory.....Nosh approved dust respirator.

Skin.....Imperious gloves and appropriate equipment to prevent probability of skin contact.

Eyes.....Side-shield safety glasses.

Ventilation.....Local Exhaust

ety shower and eye wash station should be located hear work area .

12.SPILL OR LEAN PROCEDURES

Step to be taken.....Do not touch or walk through spilled material; Stop lean if you can do it without risk. Take up with sand or other non-combustible absorbent materials and place into containers for later disposal. Scrub spill area with detergent, flush with copious amount of water.

Waste disposal method.....Bury or Incinerate according local regulations.

Container reuse method.....Emptied container may contain product residue and should not be reused.

13.PRECAUTION MEASURES

Keep unnecessary people away isolate hazard area and deny entry. Stay upwind, out of low areas, and ventilate closed spaces before entering positive pressure self-contained breathing apparatus and structural fire fighters' protective clothing will provide limited protection. If water pollution occurs. Notify the appropriate authorities.

14.TRANSPORTATION INFORMATION

Not hazard class.....Non-hazardous

Proper shipping name..... Non-hazardous materials

Not identification.....

Commodity class.....Pigments material

Further information: non-dangerous transport goods. Keep separated from foodstuffs.

15.REGULATORY INFORMATION

T.S.C.A.....In compliance

16.OTHER INFORMATION.

All information and data appearing on this M.S.D.S are believed to be reliable and accurate. However, it is the user's responsibility to determine the safety, toxicity, and suitability for his own use of the product described. Since the actual use by others is beyond our control, no guarantee, expressed or implied is made user assumes all risk and responsibility.

17. VALIDITY: TWO YEARS.