

Tangshan YL corporation

MSDS

MATERIAL SAFETY DATA SHEET

Trade name: **PM-TITAN® Potassium Titanate**

Date Prepared: **01/01/20**

1.CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

- 1.1 Product name: **PM-TITAN® Potassium Titanate**
- 1.2 Product description: **Potassium titanate**
- 1.3 Manufacturer: **Tangshan Yuanli Advanced Materials Technology Co., LTD**
West Industrial Zone, Luannan County, 063500
Tangshan, PR CHINA
- 1.4 Telephone: **+86 10 62703889**
- 1.5 Fax: **+86 10 62703889**
- 1.6 E-mail: **13621269221@163.com**
- 1.7 In case of emergency call: **+86 136 2126 9221**

2.COMPOSITION/INFORMATION ON INGREDIENTS

- 2.1 Substances
- Formula: **$K_2Ti_nO_{2n+1}(n=2,4,6,8)$**
- Component: **CAS-No. 12030-97-6**
EC-No. 234-748-6

3.HAZARDS IDENTIFICATION

- 3.1 Classification of the substance or mixture
- Not a hazardous substance or mixture according to regulation(EC) No. 1272/2008.**
Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.
- 3.2 Label elements
- The product does not need to be labeled in accordance with EC directives or respective national laws.**
- 3.3 Other hazards – **none**

4.FIRST AID MEASURES

- 4.1 Description of first aid measures
- Eye: **Flush eyes with water as a precaution.**
- Skin: **Wash off with soap and plenty of water.**
- Inhalation: **If breathed in, move person into fresh air. If not breathing, give artificial respiration.**
- Ingestion: **Never give anything by mouth to an unconscious person. Rinse with water.**

4.2 *Most important symptoms and effects, both acute and delayed.*

4.3 *Indication of immediate medical attention and special treatment needed*

No data available

5.FIRE-FIGHTING MEASURES

5.1 *Flammable limits*

This material is noncombustible.

5.2 *Extinguishing media*

Suitable extinguishing media

Use extinguishing measure that appropriate to local circumstances and the surrounding environment.

5.3 *Precaution for fire-fighters*

Wear self contained breathing apparatus for fire fighting if necessary.

6.ACCIDENTAL RELEASE MEASURES

Personal protection:

Avoid dust formation. Avoid breathing vapors, mist or gas.

Environmental Hazards:

Do not let enter drains.

Methods and materials for containment and cleaning up:

Sweep up and shovel. Keep in suitable, closed containers for disposal.

Reference to other sections:

For disposal see section 13.

7.HANDLING AND STORAGE

7.1 *Precautions for safe handling*

Provide appropriate exhaust ventilation at places where dust is formed.

7.2 *Conditions for safe storage, including any incompatibilities*

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

7.3 *Specific end uses*

No data available

8.EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 *Control parameters*

Components with workplace and control parameters

8.2 *Exposure controls*

Appropriate engineering controls

General industrial hygiene practice.

Personal protective equipment

Eye/face:

Use equipment for eye protection tested and approved appropriate government standards such as NIOSH(US) or EN 166(EU).

Skin:

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique(without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves

after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body:

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific workplace. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory:

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95(US) or P1(EN143) dust masks. Use respirators components tested and approved under appropriate government standards such as NIOSH(US) or CEN(EU).

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

<i>Appearance:</i>	Powder
<i>Color:</i>	White or gray-yellow
<i>Odor:</i>	No data available
<i>pH:</i>	~9-11
<i>Melting/freezing point:</i>	>1320 °C
<i>Real density:</i>	3.30 g/cm³
<i>Bulk density:</i>	~0.5~1.0 g/cm³
<i>Water solubility:</i>	No data available
<i>Explosive properties:</i>	No data available
<i>Oxidizing properties:</i>	No data available

9.2 Other safety information

No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

No data available

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Strong oxidizing agents

*10.6 Hazardous decomposition products***Other decomposition products-no data available****11.TOXICOLOGICAL INFORMATION***11.1 Information on toxicological effects*

<i>Acute toxicity:</i>	No data available
<i>Shin corrosion/irritation:</i>	No data available
<i>Serious eye damage/eye irritation:</i>	No data available
<i>Respiratory or skin sensitization:</i>	No data available
<i>Germ cell mutagenicity:</i>	No data available
<i>Carcinogenicity:</i>	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
<i>Reproductive:</i>	No data available
<i>Reproductive toxicity:</i>	No data available
<i>Specific target organ toxicity-single exposure</i>	No data available
<i>Specific target organ toxicity-repeated exposure:</i>	No data available
<i>Aspiration hazard:</i>	No data available

Potential health effects

<i>Inhalation</i>	May be harmful if inhaled. May cause respiratory tract irritation.
<i>Ingestion</i>	May be harmful if swallowed.
<i>Skin</i>	May be harmful if absorbed through skin. May cause skin irritation.
<i>Eyes</i>	May cause eye irritation.
<i>Additional information:</i>	RTECS: Not available

12.ECOLOGICAL INFORMATION*12.1 Toxicity***No data available***12.2 Persistence and degradability***No data available***12.3 Bioaccumulative potential***No data available***12.4 Mobility in soil***No data available***12.5 Results of PBT and vPvB assessment***No data available***12.6 Other adverse effect***No data available****13.DISPOSAL CONSIDERATIONS**

Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of unused product.

14. TRANSPORT INFORMATION

14.1 un-Number

ADR/RID: - IMDG: - IATA: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

14.4 Packaging group

ADR/RID: - IMDG: - IATA: -

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: -

14.6 Special precautions for users

No data available

15. REGULATORY INFORMATION

This safely datasheet complies with the requirements of Regulation(EC) No. 1907/2006.

15.1 Safely, health and environmental regulation/legislation specific for the substance or mixture

No data available

15.2 Chemical Safely Assessment

No data available

16. OTHER INFORMATION

Prepared by: Meng Zhang

Supersedes revision of: -

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