

MATERIAL SAFETY DATA SHEET (MSDS)

Titanate TCA-K38S

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

1.1	Production	TCA-K38S
1.2	Generic Description:	Titanium IV 2-propanolato, tris(dioctyl)pyrophosphato-O
1.3	Physical form:	Viscous Liquid
1.4	Color:	Yellow to amber translucent
1.5	Odor:	Alcoholic
1.6	IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY	
	Manufacturer:	Nanjing Capatue Chemical Co., Ltd
	Address:	No. 20 JiangJun Avenue, Jiangning Development Zone, Nanjing, Jiangsu Province, P. R. China P.C: 211100
	Telephone:	(+86-25)-8637 1193 Fax: (+86-25) 8637 1191-0
	24Hour Emergency Telephone:	(+86-25)-8637 1192
	Connect with:	Anhuanbu

2. HAZARDS IDENTIFICATION

No particular danger

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>CAS Number</u>	<u>Wt %</u>	<u>Component Name</u>
68585-78-4	>95%	Titanium IV 2-propanolato, tris(dioctyl)pyrophosphato-O

The above components are hazardous as defined in 29 CFR 1910.1200.

4. FIRST AID MEASURES

Effects and Symptoms:	
Effects of Overexposure:	May cause mechanical irritation to eyes.
Medical Conditions Aggravated by Exposure:	Persons with respiratory conditions may be at increased risk.
Primary Route(s) of Entry:	Inhalation or skin and eye contact
Emergency First Aid:	
Eye Contact:	Flush eyes with water for at least 15 min. See physician if irritation persists.
Skin Contact:	Flush skin with soap and water for at least 15 min.
Inhalation:	Remove to fresh air. If breathing is difficult give oxygen. See physician.
Ingestion:	None needed for small amounts. For large amounts, if conscious, give water to drink and induce vomiting. Call physician.

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5. FIRE FIGHTING MEASURES

5.1	Flash Point(Closed Cup):	> 140 °C (> 284 °F)
5.2	Flammable Limits LEL/UEL %:	N/A
5.3	Auto-ignition Temperature:	Non-flammable
5.4	Extinguishing Media:	Water, Dry Chemical, Foam, CO ₂
5.5	Special Fire Fighting Procedure:	Self-contained breathing apparatus and protective clothing.

6. ACCIDENTAL RELEASE MEASURES

6.1	Personal Precautions:	Avoid skin and eye contact
6.2	Environmental Precautions:	Prevent material from contaminating soil or entering sewerage and drainage systems.
6.3	Spill response:	Use appropriate NIOHS/MSHA approved respirator. Wear chemical gloves, goggles, and lab coat. Carefully contain spilled material. Deposit spilled material in appropriate waste container. Wash spill area with soap and water.

7. HANDLING AND STORAGE

Handling:	A Use with adequate ventilation. Avoid contact with eyes. Wash thoroughly after handling and before mealtimes. Follow all MSDS and label precautions even after container is emptied since it may contain residual material.
Storage:	Store containers closed in ambient location.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal Protection:	
Eye Protection:	Safety glasses with side shields or goggles
Ventilation:	Provide adequate general mechanical exhaust
Skin Protection :	Rubber gloves, wash at meals and end of shifts
Respiratory Protection:	Use NIOSH/MSHA approved air purifying respirator as needed to control exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Liquid

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Color:	Yellow to amber translucent
Odor:	Alcoholic
Refractive Index (n_D^{25})	1.466
Specific Gravity (ρ_{20}), g/cm³	1.095
Decomposition Temperature, °C	210
Flash Point, °C	> 140 °C (> 284 °F)
Solubility :	Soluble in alcohol, aromatic and mineral oil. Insoluble in water and will be hydrolyzed.

Note: The above information is not intended for use in preparing product specifications. Contact Capatue Chemical before writing specifications.

10. STABILITY AND REACTIVITY

10.1 Chemical Stability:	Stable
10.2 Hazardous Decomposition Products:	None
10.3 Hazardous Polymerization:	Will not occur
10.4 Incompatibility	Acids and strong oxidizing agents
10.5 Conditions to Avoid:	Keep away from extreme heat, sparks, flame, and other ignition sources

11. TOXICOLOGICAL INFORMATION

Skin Irritation (rabbit):	Minimal Irritant
Acute Oral Toxicity (rat):	Non-toxic, LD50 > 2 g/kg (rat)
Primary Eye Irritation:	Mild irritant (rabbit) Average Draize score = 0.40
Sensitization:	Non-sensitizer (guinea pig)

12. ECOLOGICAL INFORMATION

Environmental Fate and Distribution

Complete information is not yet available.

Environmental Effects

Complete information is not yet available.

Fate and Effects in Waste Water Treatment Plants

Complete information is not yet available.

Ecotoxicity Classification Criteria

Hazard Parameters (LC50 or EC50)	High	Medium	Low
Acute Aquatic Toxicity (mg/L)	<=1	>1 and <=100	>100

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Acute Terrestrial Toxicity	≤100	>100 and ≤ 2000	>2000
<p>This table is adapted from "Environmental Toxicology and Risk Assessment", ASTM STP 1179, p.34, 1993.</p> <p>This table can be used to classify the ecotoxicity of this product when ecotoxicity data is listed above. Please read the other information presented in the section concerning the overall ecological safety of this material.</p>			

13. DISPOSAL CONSIDERATIONS	
Method of Disposal:	Dispose of in accordance with all applicable federal, state, and local regulations. Material may be sent to an approved landfill or licensed treatment, storage, and disposal facility.

14. TRANSPORT INFORMATION		
14.1	DOT Road Shipment Information (49 CFR 172.101)	Not subject to DOT.
14.2	Ocean Shipment (IMDG)	Not subject to IMDG code.
14.3	Air Shipment (IATA)	Not subject to IATA regulations.
Call Capatue Chemical if additional information is required.		

15. REGULATORY INFORMATION	
TSCA Status:	All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.
EPA SARA Title III Chemical Listings	
Section 302 Extremely Hazardous Substances (40 CFR 355):	
None.	
Section 304 CERCLA Hazardous Substances (40 CFR 302):	
None.	
Section 311/312 Hazard Class (40 CFR 370):	
Acute: Yes	
Chronic : Yes	
Fire: No	
Pressure: No	
Reactive: No	
Section 313 Toxic Chemicals (40 CFR 372):	
None present or none present in regulated quantities.	
Note: Chemicals are listed under the 313 Toxic Chemicals section only if they meet or exceed a reporting threshold.	

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16. OTHER INFORMATION

Prepared by: Nanjing Capatue Chemical Co., Ltd

These data are offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.



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CAPATUE CHEMICAL

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