

MATERIAL SAFETY DATA SHEET (MSDS) TCA-IA10 TITANATE

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

1.1	Production	TCA-IA10
1.2	Generic Description:	Titanium chelate.
1.3	Physical form:	Liquid
1.4	Color	Light yellow transparent
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

Acute Effects

Eye:	Direct contact may cause mild irritation.
Skin:	No significant irritation expected from a single short-term exposure.
Inhalation:	Vapor and/or mist may irritate nose and throat. Overexposure by inhalation may cause drowsiness, dizziness, confusion or loss of coordination.
Oral:	Overexposure by ingestion may cause effects similar to those listed under repeated exposure. Overexposure by ingestion may cause drowsiness, dizziness, confusion or loss of coordination.

Prolonged/Repeated Exposure Effects

Skin:	Repeated skin contact may cause allergic skin reaction. Repeated or prolonged exposure may cause irritation.
Inhalation:	Prolonged or repeated exposure by inhalation may injure the following organ(s): Liver.
Oral:	Prolonged or repeated exposure by ingestion may injure the following organ(s): Liver.

Signs and Symptoms of Overexposure

No known applicable information.

Medical Conditions Aggravated by Exposure

No known applicable information.

The above listed potential effects of overexposure are based on actual data, results of studies performed upon similar compositions, component data and/or expert review of the product. Please refer to Section 11 for the

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detailed toxicology information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>CAS Number</u>	<u>Wt %</u>	<u>Component Name</u>
109037-78-7	65%	Titanium phosphate complex
67-63-0	20%	Isopropyl alcohol
64-17-5	15%	Ethyl alcohol

4. FIRST AID MEASURES

4.1 Inhalation:	Remove to open space for free air. Seek medical aid.
4.2 Eye Contact:	Flush with water for at least 3 minutes and then seek medical aid.
4.3 Skin:	Wash with soap and plenty of water and seek medical help.
4.4 Ingestion:	Do not induce vomiting . If vomiting should occur keep air way clear Provided the patient is conscious, wash out mouth with water and give 200-300 ml of water to drink. Seek medical help.
Further Medical Treatment	Symptomatic treatment and supportive therapy as indicated.

5. FIRE FIGHTING MEASURES

5.1 Flash Point	12 °C
5.1 Flammable Limits LEL/UEL %:	N/A
5.2 Auto-ignition Temperature:	N/A
5.3 Extinguishing Media:	Water, Dry Chemical, Foam, CO ₂
5.4 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.

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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

Component Exposure Limits

<u>CAS Number</u>	<u>Component Name</u>	<u>Exposure Limits</u>
67-63-0	Isopropyl alcohol	OSHA PEL(final rule) and ACGIH TLV: TWA 1000 ppm

Provide adequate ventilation to control exposures within guidelines of OSHA PEL and ACGIH TLV: TWA 1000 ppm.

Engineering Controls

Local Ventilation: Recommended.

General Ventilation: Recommended.

Personal Protective Equipment for Routine Handling

Eyes: Use proper protection – safety glasses as a minimum.

Skin: Wash at mealtime and end of shift. If skin contact occurs, change contaminated clothing as soon as possible and thoroughly flush affected areas with cool water. Chemical protective gloves are recommended.

Suitable Gloves: Silver Shield (R). 4H(R).

Inhalation Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposure is within recommended exposure guidelines. Industrial Hygiene Personnel can assist in judging the adequacy of existing engineering controls.

Suitable Respirator: Organic Vapor Type.

Personal Protective Equipment for Spills

Eyes: Use full face respirator.

Skin: Wash at mealtime and end of shift. If skin contact occurs, change contaminated clothing as soon as possible and thoroughly flush affected areas with cool water. Chemical protective gloves are recommended.

Inhalation/Suitable Respirator: Use self-contained breathing apparatus (SCBA) or other supplied-air respirator.

Precautionary Measures: Avoid eye contact. Avoid skin contact. Do not breathe vapor, mist, dust or fumes. Keep container closed. Do not take internally. Use reasonable care.

Comments: Product evolves flammable ethyl alcohol when exposed to water or humid air.

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Provide ventilation during use to control exposure within Section 8 guidelines or use air-supplied or self-contained breathing apparatus.

No Formaldehyde Related Warning.

Note: These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions. For further information regarding aerosol inhalation toxicity, please refer to the guidance document regarding the use of silicone-based materials in aerosol applications that has been developed by the silicone industry or contact the Capatue Chemical customer service group.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form:	Liquid
Color:	Light yellow transparent
Odor:	Alcoholic
Acidity:	Not Applicable
Flash Point:	12 °C (closed cup)
Explosive properties:	Non explosive. The Vapor of this product can form potentially explosive mixtures with air.
Oxidizing properties:	Non applicable
Pour point:	-50 °C
Specific gravity (25°C):	1.0
Viscosity (25°C), mPa.s:	20
Titanium content:	8.7%

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	Hazardous polymerization will not occur.
Polymerization:	None
Conditions to Avoid:	None
Materials to Avoid:	Oxidizing material can cause a reaction.

Hazardous Decomposition Products

Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: Carbon oxides and traces of incompletely burned carbon compounds. Titanium dioxide.

11. TOXICOLOGICAL INFORMATION

Component Toxicology Information

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Prolonged overexposure to Isopropyl alcohol has caused human birth defects.

Special Hazard Information on Components

Teratogens

<u>CAS Number</u>	<u>Wt %</u>	<u>Component Name</u>	
67-63-0	20	Isopropyl alcohol	Evidence of teratogenicity (birth defects) in humans.

Sensitizers

<u>CAS Number</u>	<u>Wt %</u>	<u>Component Name</u>	
109037-78-7	65	Titanium phosphate complex	Possible skin sensitizer.

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
Acute Terrestrial Toxicity	<=100	>100 and <= 2000	>2000

This table is adapted from "Environmental Toxicology and Risk Assessment", ASTM STP 1179, p.34, 1993.

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.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Keep in covered drums, pending disposal. Handle & dispose in full compliance with all applicable international, federal, state, & local regulations.

14. TRANSPORT INFORMATION

14.1 DOT Road Shipment Information (49 CFR 172.101)

Proper Shipping Name	FLAMMABEL LIQUID, N.O.S.
Hazard Technical Name	ISOPROPYL ALCOHOL
Hazard Class	3
UN-No	UN1993
Packaging Group	III

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Hazard Label(s)	FLAMMABEL LIQUID LABEL
14.2 Ocean Shipment (IMDG)	
Proper Shipping Name	FLAMMABEL LIQUID, N.O.S.
Hazard Technical Name	ISOPROPYL ALCOHOL
Hazard Class	3
UN-No	UN1993
Packaging Group	III
Hazard Label(s)	FLAMMABEL LIQUID LABEL
Marine Pollutant:	NOT APPLICABLE
14.3 Air Shipment (IATA)	
Proper Shipping Name	FLAMMABEL LIQUID, N.O.S.
Hazard Technical Name	ISOPROPYL ALCOHOL
Hazard Class	3
UN-No	UN1993
Packaging Group	III
Hazard Label(s)	FLAMMABEL LIQUID LABEL
Call Capatue Chemical if additional information is required.	

15. REGULATORY INFORMATION

Contents of this MSDS comply with OSHA Hazard Communication Standard 29 CFR 1910.1200.

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 312 Hazard Class (40 CFR 370):

Acute: Yes

Chronic: Yes

Fire: Yes

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

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reporting threshold.

12. 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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