

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY		
1.1	Production	TCA-L12
1.2	Generic Description:	Organo-Titanates
1.3	Physical form:	Liquid
1.4	Color:	Red-orange
1.5	Odor:	Alcoholic
1.6	HMIS Profile	Health 1 Flammability 2 Instability/Reactivity 0
1.7	NFPA Profile:	Health 1 Flammability 2 Instability/Reactivity 0
1.8	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			
LD50 LC50 Mixture:	None specified by	y manufacturer	
Routes of Entry:	Inhalation: Yes	Skin: Yes	Ingestion: Yes
Reports of Carcinogenicity:	NTP: No	IARC: No	OSHA: No
Health Hazards Acute and Chronic:	(Acute) SKIN: Ir	ritant.	
	EYE: Irritant.		
	INGEST: May be	e harmful if swalld	owed.
	INHAL: Respirat	tory tract irritant.	
	(CHRONIC) Unl	known.	A I
Explanation of Carcinogenicity:	Not relevant		
Effects of Overexposure:	None specified.		
Medical Condition Aggravated by Exposure:	None specified.		

3. COMPOSITION/INFORMATION ON INGREDIENTS		
CAS Number	<u>Wt %</u>	Component Name
110438-25-0	99%	Titanium IV 2,2(bis 2-propenolatomethyl)butanolato,
		tris(dioctyl)phosphato-O
26952-21-6	< 0.5%	Isooctyl alcohol
67-63-0	< 0.5%	Isopropyl alcohol (SARA III)
See Section 15 for chemicals appearing on Federal or State Right-To-Know lists.		





4. FIRS	ST AID MEASURES	
4.1	Eye contact:	Flush with water for at least 15 minutes, consult MD.
4.2	Skin:	Wash thoroughly with soap and water. Consult MD if irritation develops.
4.3	Inhalation:	Remove to uncontaminated area, consult MD.
4.4	Ingestion:	Immediately consult MD, before taking any action.

5. FIRE FIGHTING MEASURES			
Flash Point Method:	TCC		
Flash Point:	>150 °F,>66 °C		
Extinguishing Media:	Foam, dry chemical, CO2, water spray.		
Fire Fighting Procedures:	Wear niosh / msha approved SCBA & FULL		
	protective equipment.		
Unusual Fire/Explosion Hazard:	May emit toxic fumes upon thermal		
	decomposition.		

## 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 Spill Release Procedures:

Collect and place in an appropriate disposal container. Use proper safety equipment when handling this material. Take necessary measures to minimize environmental contamination.

#### 6.2 Neutralizing Agent:

None specified by manufacturer.

#### 7. HANDLING AND STORAGE

#### Handling and storage precautions

Store in well ventilated area. keep cover tightly closed . Do not store with incompatible materials

#### **Other Precautions:**

Do not store or consume food, drink, or tobacco in an area where they may become contaminated with this material.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory protection	NIOSH/MSHA approved organic vapor respirator if use conditions
	exceed the pel or tlv of any components.
Hand protection / protective gloves	Polyolefin or suitable chemical-resistant material.
Eye protection	Chemical workers goggles.
Work Hygienic Practices:	Wash thoroughly before eating, smoking, applying cosmetics, etc.

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Add: 20 Jiangjun Avenue, Jiangning Development Zone, Nanjing, Jiangsu Province, China 211100



	thoroughly launder work clothing before reuse.
Supplemental Safety and Health	None specified by manufacturer.
Other protective equipment	Eyebath, safety shower.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form:	Liquid
Color:	Red- orange
Odor:	Alcohol odor
Specific Gravity @ 25°C:	1.03
Boiling Point:	B.P. Text: 160°F, 71°C
Evaporation Rate & Reference:	<1
Vapor Density:	>1
Solubility in Water:	<1%
pH:	5.3
Percent Volatiles by Volume:	5
Note: The above information is not intended fo	r use in preparing product specifications. Contact Capatue

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10. STABILITY AND REACTIVITY	
Chemical Stability:	Stable
Hazardous	Hazardous polymerization will not occur.
Polymerization:	Will not occur
Conditions to Avoid:	Not applicable
Materials to Avoid:	Acids.
	Bases. CHENICAL
	Reacts with water or moisture to form:
	Ethanol.
Hazardous Decomposition Products	
Cox and pox. phosphoric acid if decomposition	n occurs in the presence of water.

11. TOXICOLOGICAL INFORMATION	
LD50-ORAL, rats	2000-4000 mg/Kg
LD50-SKIN, guinea pigs	1800 mg/Kg
Ames-Nonmutagenic All Strains S-9 Activated	



### **12. ECOLOGICAL INFORMATION**

Ecotoxicological and Chemical Fate Information:

Ecotoxicity:

Material is practically non-toxic to aquatic organisms on an acute basis (LC50>100mg/l in most sensitive species).Acute LC50 for fathead minnow (pimephales promelas) is 728 mg/l. Acute LC50 for water flea (Daphnia magna) is 140 mg/l.

Biodegradation under aerobic static laboratory conditions is low (BOD20 or BOD28/ ThOD between 2.5 and 10%). Theoretical oxygen demand (ThOD) is calculated to be 2.77 p/p. 5-day biochemical oxygen demand (BOD5) IS 0.00 p/p. BOD 10 is 0.00.BOD20 is 0.14 p/p.

13. DISPOSAL CONSIDERAT	TIONS
Waste Disposal:	Dispose of in accordance with all federal, state, and
	local regulations.
Container Disposal:	Dispose of in accordance with all federal, state, and
	local regulations.

14. TRANSPORT INFO	14. TRANSPORT INFORMATION		
14.1 DOT			
DOT Shipping Name	Combustible liquid, n.o.s		
Hazard Class	Combustible Liquid		
UN/NA No	NA 1993		
Packaging Group	m la		
Subsidiary Label	None		
DOT Placard	(BULK) COMBUSTIBLE		
DOT Label(s)	None		
14.2 IMO			
IMO Shipping Name	Combustible liquid, n.o.s		
Hazard Class	Combustible Liquid		
UN No	NA 1993		
Packaging Group	III		
Subsidiary Label	None		
IMO Label(s)	None		
14.3 IATA			
IATA Shipping Name	Combustible liquid, n.o.s		
Hazard Class	Combustible Liquid		
UN No	NA 1993		
Packaging Group	III		

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Subsidiary LabelNoneIATA Label(s)NoneCall Capatue Chemical if additional information is required.

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<b>15. REGULATORY INFORMATION</b>	
SARA 311/312 Chronic Health Hazard	Not determined
SARA 311/312 Acute Health Hazard	irritant
SARA 311/312 Fire Hazard	Combustible Liquid
SARA 311/312 Sudden Pressure	Not applicable
SARA 311/312 Reactivity Hazard	No
Section 302 Extremely Hazardous Ingredient	None
CERCLA Hazardous Substance	None
Section 313 Toxic Chemicals	Isopropanol 67-63-0 <5%
NJ Environmental Hazardous Substances List	Not Listed
California Proposition 65 Ingredients	None
Reported in TSCA Inventory	Yes
Reported in EEC Inventory	Yes
Reported in Canada Inventory	Yes (NDSL)
Reported in Australia Inventory	No

## **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.