

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

1.1 Production TCA-L09

1.2 Generic Description: Organo-Titanates

1.3 Physical form: Liquid

1.4 Color: Greenish brown liquid

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 IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

Manufacturer: Nanjing Capatue Chemical Co., Ltd

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Connect with: Anhuanbu

2. HAZARDS IDENTIFICATION

EMERGENCY Brownish Orange liquid with an alcoholic odor. It presents little or no immediate

OVERVIEW: significant hazard if spilled. It presents no unusual hazard if involved in a fire;

however, upon thermal decomposition it may emit toxic fumes. See Section 10.

Eye: Contact with eyes may cause eye irritation.

Skin: Prolonged or repeated skin contact may cause skin irritation.

Breathing: This substance has the potential of being a respiratory tract irritation.

Inhalation: There is the potential for respiratory tract irritation.

Swallowing: Harmful if swallowed.

Long Term Health Effects:

Not known.

Conditions Aggravated by Exposure:

No known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS Number Wt % Component Name

103406-74-2 >99% Titanium IV 2, 2(bis 2-propenolatomethyl)butanolato,

tris(dodecyl)benzenesulfonato-O

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



4. FIRST AID MEASURES					
4.1	Eye:	Immediately flush eyes with plenty of water for at least 15			
		minutes, holding eyelids apart. Get immediate medical attention			
		if irritation or other symptoms develop.			
4.2	Skin:	Wash with soap and water. Get medical attention if irritation			
		develops or persists.			
4.3	Breathing:	If exposed to excessive levels of vapors or mists, remove to fresh			
		air and get immediate medical attention if cough or other			
		symptoms develop.			
4.4	Swallowing:	Get immediate medical attention. Never give anything by mouth			
		to an unconscious person.			

5. FIRE	5. FIRE FIGHTING MEASURES					
5.1	Flash Point (TCC):	82 °C (180 °F)				
	Method	TCC				
	Auto-ignition Temperature:	Not determined.				
	Lower Explosive Point:	Not determined.				
	Upper Explosive Point	Not determined.				
	Extinguishing Media:	Foam, CO2, Dry chemical, Water spray				
5.2	Fire Fighting Procedure:	Evacuate area and fight fire from a safe distance. Wear self-contained breathing apparatus pressure-demand (HHSA/NIOSH approved or equivalent) and full protective gear.				
5.3	Special Fire Fighting	As with any fire, wear self-contained breathing apparatus				
	Procedure:	pressure-demand (HHSA/NIOSH approved or equivalent) and				
		full protective gear. Using water can cause frothing with the				
		potential for increasing fire intensity.				
5.4	Unusual Fire and Explosion	May emit toxic fumes upon thermal decomposition.				
	Hazards:					
5.5	Sensitivity to Explosion by	None				
	Mechanical Impact:					
5.6	Sensitivity to Explosion by	Potential exists				
	Static Discharge:					
5.7	Conditions of Flammability:	Material will burn - avoid sources of ignition and also avoid				
		temperatures that are within range of the flash point.				
5.8	Unusual Fire Hazards:	May emit toxic fumes upon thermal decomposition.				



6. ACCIDENTAL RELEASE MEASURES

6.1 General:

This material should be prevented from contaminating soil or from sewage and drainage systems and bodies of water. Isolate hazard/spill area. Keep unnecessary and unprotected personnel from entering area.

6.2 Small Spill:

Absorb spill with inert material, then place in a chemical waste container.

6.3 Large Spill:

Shut off leak, if safe to do so. Clean up spills immediately, observing precautions in Protective Equipment Section. Contain spilled liquid with sand or earth. Retain all contaminated water and soil for removal and treatment.

7. HANDLING AND STORA	GE
Handling:	Although this material does not present a significant
	skin or eye hazard, skin and eye contact should be
	prevented as good industrial hygiene practice.
	Wearing of protective gloves and eye protection is
	recommended. Always wash arms and hands after
	handling, as with any chemical.
Storage:	Store in a cool, dry and well ventilated area away
	from strong oxidizers and acid. Avoid those areas
	where there are ignition sources.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Levels:

OSHA ACGIH

Component TWA STEL TWA STEL

Not Established Not Established

Engineering Controls: Source of fine spray, mist or vapor should be controlled with local exhaust

ventilation.

Eyes/Face Protection: Always use safety glasses. Where contact with the eyes is likely, use chemical

goggles. Use a face shield as needed.

Skin Protection: Wear impervious gloves and chemical protective clothing, including impervious

sleevelets, overalls, aprons, or boots, as needed, to prevent contact with skin.

Respiratory Protection: A NIOSH/MSHA approved air purifying respirator may be permissible under

certain circumstances where airborne concentrations are expected to exceed exposure limits, if established. Consult with respirator's manufacturer to

determine the appropriate type of equipment for a given application.



Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known or any other circumstances where air purifying respirators may not provide adequate protection. A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Liquid

Color: Greenish brown

Viscosity @ (25°C), CPS: 2000

Flash Point F (TCC) 82°C (180°F)

pH (Saturated Solution): 2

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: Stable10.2 Strong Oxidizer No

10.3 Hazardous Polymerization: Not prone to hazardous polymerization.

10.4 Incompatibility Oxidizers and acids; Alkaline materials and reducing agents.

10.5 Conditions to Avoid: Keep from contact with oxidizers, acids, alkali and reducing

agents. Avoid sources of ignition. Do not add nitrites as

nitrosamine may be formed.

Hazardous Decomposition Products

Oxides of carbon, titanium and nitrogen compounds; ethylenediamine, ammonia, volatile amines.

11. TOXICOLOGICAL INFORMATION

LD50-ORAL, rats >5 g/Kg

Ames-Nonmutagenic All Strains S-9 Activated

12. ECOLOGICAL INFORMATION

Ecotoxicological and Chemical Fate Information: Not available

13. DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose of in accordance with all federal, state, and

local regulations.

Container Disposal: Dispose of in accordance with all federal, state, and

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local regulations.

14. TRANSPORT INFORMATION

14.1 DOT

DOT Shipping Name Not regulated

Hazard Class UN/NA No

Subsidiary Label None

DOT Placard (BULK) COMBUSTIBLE

DOT Label(s) None

14.2 IMO

IMO Shipping Name Not regulated

Hazard Class

UN No

Packaging Group

Subsidiary Label None
IMO Label(s) None

14.3 IATA

IATA Shipping Name Not regulated

Hazard Class

UN No

Packaging Group

Subsidiary Label None IATA Label(s) None

Call Capatue Chemical if additional information is required.

15. REGULATORY INFORMATION

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

None
NJ Environmental Hazardous Substances List

Not Listed
California Proposition 65 Ingredients

None

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Reported in TSCA Inventory	Yes	
Reported in EEC Inventory	NO	
Reported in Canada Inventory	NO	
Reported in Australia Inventory	YES	

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.