

MATERIAL SAFETY DATA SHEET (MSDS) of TCA-L38J

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

1.1	Production name:	TCA-L38J
1.2	Generic Description:	Organo-titanate
1.3	Chemical name:	Titanate (3-), [<i>P,P</i> - bis(2-ethylhexyl) diphosphato (2-)-κO'''] bis[<i>P,P</i> -bis (2-ethylhexyl) diphosphato (2-)-κO'', κO'''''] [2,2-bis[(2-propenyloxy) methyl]-1-butanolato-κO]-, trihydrogen, compd. with N-[3-(dimethylamino) propyl] -2-methyl -2- propenamide (1:3)
1.4	HMS	Flammability: 2 Reactivity: 1 Health: 2
1.5	NFPA	Flammability: 2 Reactivity: 1 Health: 2
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 (211100)
	Telephone:	(0086-25)-86371193 Fax: (0086-25) 86371191-0
	24Hour Emergency Telephone:	(0086-25)-86371192
	Connect with:	Anhuanbu
1.7	Use of the substance / Preparation	For industry use
1.8	Function	Surface modifier, raw material.

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Red-brown liquid with an alcoholic odor. It presents little or no immediate significant hazard if spilled. It presents no unusual hazard if involved in a fire, however, upon thermal decomposition it may emit toxic fumes.

POTENTIAL HEALTH EFFECTS

Breathing:	This substance has the potential of being a respiratory tract irritant.
SKIN	Prolonged or repeated skin contact may cause skin irritation.
INHALATION	There is a potential for irritation of the respiratory tract.
EYES	Contact with eyes will cause eye irritation.
Swallowing	May be harmful if swallowed.
Long Term Health Effects	Not known.
Conditions Aggravated by	Not known
Exposure	

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3. COMPOSITION/INFORMATION ON INGREDIENTS		
Product composition	CAS No.	W.%
Titanate (3-), [<i>P,P</i> - bis(2-ethylhexyl) diphosphato (2-)-κO''']		
bis[<i>P,P</i> -bis (2-ethylhexyl) diphosphato (2-)-κO'', κO''''']	117002-37-6	100%
[2,2-bis[(2-propenyloxy) methyl]-1-butanolato-κO]-, trihydrogen, compd. with N-[3-(dimethylamino) propyl] -2-methyl -2-propenamide (1:3)		
See chapter 16 for text of risk phrases.		

4. FIRST AID MEASURES		
4.1	Eye contact:	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	Ingestion:	Get immediate medical attention. Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES	
Flash Point:	70 °C; 160 °F
Method:	TCC
Flammable Limits in Air - Lower (%):	Not available
Flammable Limits in Air – Upper (%):	Not available
Auto-Ignition Temperature:	Not determined
EXTINGUISHING MEDIA	Foam, CO ₂ , Dry Chemical, Water spray
Firefighting Procedure:	Evacuate area and fight fire from a safe distance. Wear self-contained breathing apparatus pressure-demand (MHSA/NIOSH approved or equivalent) and full protective gear.
Unusual Fire and explosion Hazards	May emit toxic fumes upon thermal decomposition.
Sensitivity to Explosion by Mechanical Impact	None
Sensitivity to Explosion by Static Discharge	Potential exists

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Conditions of Flammability

Material will burn - avoid sources of ignition and also avoid temperatures that are within range of the flash point.

Special Firefighting Procedure:

As with any fire, wear self-contained breathing apparatus pressure-demand (MESA/NIOSH approved or equivalent) and full protective gear. Use caution when using water as frothing may occur and thereby increasing fire intensity.

6. ACCIDENTAL RELEASE MEASURES

6.1 General

This material should be prevented from contaminating soil for from sewerage and drainage systems and bodies of water. Isolate hazard/spill area. Keep unnecessary and unprotected personnel from enter 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 STORAGE

7.1 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 establish the practice of washing arms and hands, as with any chemical, after handling.

7.2 STORAGE

Store in a cool, dry and well ventilated area. Avoid contact or exposure to incompatible substances.
Also avoid those areas where there are ignition sources.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS

Source(s) of fine spray, mist or vapor should be controlled with local exhaust ventilation.

RESPIRATORY PROTECTION

A NIOSH/MESA 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

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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.

Skin Protection:

Wear impervious gloves and chemical protective clothing, including impervious sleevelets, overalls, aprons, or boots as needed to prevent contact with the skin.

EYE AND FACE PROTECTION

Always use safety glasses. Where contact with the eyes is likely, use chemical goggles. Use a face shield as needed.

EXPOSURE GUIDELINES

Component	OSHA	ACGIH
	TWA STEL	TWA STEL
117002-37-6	Not Established	Not Established

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Red-Brown liquid
pH:	8.5
ODOR:	Alcoholic
Boiling Range	220°F IBP
Specific Gravity (relative to water)	1.05 @ 77°F
Vapor Density (relative to air)	Heavier than air
Vapor Pressure (mm Hg):	Not established
Freezing/Melting Point	Not established
Octanol/Water Partition Coefficient	Not established
Odor Threshold	Not established
Flash Point (TCC)	160°F 71°C
Auto-Ignition Temperature	Not established
Explosive Properties	Not established
Oxidizing Properties	None
Viscosity @ 77°	5800 cps
Evaporation Rate (relative to n-butyl acetate)	Slower
SOLUBILITY IN WATER	Yes

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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	STABILITY:	Stable
	Strong Oxidizer	No
10.2	HAZARDOUS	May occur at elevated temperatures.
	POLYMERIZATION:	
10.3	Hazardous Decomposition Products	Oxides of carbon and phosphorous.
10.4	INCOMPATIBILITY (MATERIALS TO AVOID)	Oxidizers, acids, alkaline materials, free radical initiators, ultraviolet light.
10.5	Conditions to Avoid	Keep from contact with oxidizers, acids, alkaline materials. Avoid sources of ignition, UV light and elevated temperatures.

11. TOXICOLOGICAL INFORMATION

Base Component:	Oral LD50 >2.5g/kg -- <5.0g/kg Primary Skin - 1.1-slightly Primary Dermal Irritation. 0.6 irritating. <u>Amine QUAT</u> Non-mutagenic - Ames test with S-9 activation Irritation cleared by 72 hours.
DMAPMA Component:	Oral LD50. 3334 mg/kg (Rat) Acute Dermal (LD50) 2355 mg/kg (Rabbit) Draize Eye Highly irritating (Rabbit) Draize Skin Non-Irritant, non-sensitizing (Rabbit)

12. ECOLOGICAL INFORMATION

Ecotoxicological and Chemical Fate InformationNot determined.

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 local regulations.

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14. TRANSPORT INFORMATION		
14.1	DOT Road Shipment Information Hazard Class Packing Group UN/NA No DOT Labels Subsidiary Label DOT Placard(BULK)	Not subject to DOT. None
14.2	IMO Shipping Name Hazard Class Packing Group UN No IMO Labels Subsidiary Label	Not regulated None
14.3	Air Shipment (IATA) Hazard Class Packing Group UN No IATA Labels Subsidiary Label	Not subject to IATA regulations. 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	No	
SARA 311/312 Reactivity Hazard	No	
Section 302 Extremely Hazardous Substances (40 CFR 355):	None.	
Section 304 CERCLA Hazardous Substances (40 CFR 302):	None.	
CERCLA Hazardous Substance(s)	None	
Section 313 Toxic Chemical(s)	None	
NJ Environmental Hazardous Substances List	Not Listed	
California Proposition 65 Ingredients	None	

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Reported in TSCA Inventory	YES
Other States Listings	Not listed to our knowledge.
TSCA Rulings	None to our knowledge.
Reported in EEC Inventory	No
Reported in Canada 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.



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