

Issue Date: 01-Jan-2011

Revision Date: 08-Jan-2015

Version 1

1. IDENTIFICATION

Product Identifier

Product Name Anti Tarnish

Other means of identification

UN/ID No UN 3267

Recommended use of the chemical and restrictions on use

Recommended Use Cleaning agent.

Details of the supplier of the safety data sheet

Supplier Address

Cal Pac Chemicals, Inc
6231 Maywood Ave
Huntington Park, CA 90255

Emergency Telephone Number

Company Phone Number (323) 585-2178
Emergency Telephone (24 hr.) Chemtrec 1-800-424-9300 (North America) 1-703-527-3887 (International)

2. HAZARDS IDENTIFICATION

Appearance Yellowish liquid

Physical State Liquid

Odor Characteristic odor

Classification

Corrosive to metals	Category 1
Skin Corrosion / Irritation	Category 1A-1C
Serious Eye Damage / Eye Irritation	Category 1
Aquatic Toxicity (Acute)	Category 3
Acute Toxicity: Oral	Category 4
Acute Toxicity: Inhalation	Category 4

Signal Word

Danger

Hazard Statements

May be corrosive to metals.
Harmful if swallowed.
Causes severe skin burns and eye damage.
Causes serious eye damage.
Harmful if inhaled.
Harmful to aquatic life.



Precautionary Statements - Prevention

Keep only in original container.
 Do not breathe dust/fume/gas/mist/vapors/spray.
 Wash hands thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 Use only outdoors or in a well-ventilated area.
 Avoid release to the environment
 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
 Wash contaminated clothing before reuse
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 Immediately call a poison center or doctor/physician
 IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.
 IF SPILLED: Absorb spillage to prevent material damage.

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Sodium Tolytriazole	64665-57-2	<5

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

Emergency and First Aid Procedures

Keep victim under observation.

First Aid Measures

Eye Contact	Hold eyelids apart and flush eyes with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined and tested by medical personnel. Get medical aid immediately.
Skin Contact	Remove contaminated clothing and shoes. Wash with soap and water. Get medical attention if irritation develops or persists. Wash contaminated clothing before reuse.
Inhalation	Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. If not breathing give artificial respiration. Call a POISON CENTER or Doctor/physician if exposed or you feel unwell.
Ingestion	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If victim is fully conscious, give a cupful of water. Immediately call a POISON CENTER or doctor/physician. Never give anything by mouth to an unconscious person.

Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically and supportively.
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5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use water spray, dry chemical, Carbon dioxide, or alcohol-resistant foam. Use extinguishing agent suitable for type of surrounding fire. Cool all affected containers with flooding quantities of water. Do NOT get water inside containers.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

None known.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions

In case of inadequate ventilation, wear respiratory protection. Wear appropriate gloves to prevent skin exposure. Wear appropriate protective clothing to prevent skin exposure. Where contact is likely, wear chemical resistant gloves, a chemical suit, rubber boots, and chemical safety goggles plus a face shield Use respirators and components tested and approved under NIOSH Standards.

Environmental Precautions

Avoid runoff into storm sewers, ditches, and waterways.

Methods and material for containment and cleaning up

Methods for Containment

Prevent further leakage or spillage if safe to do so. Warn occupants and downstream/downwind areas of release of corrosive hazardous material and request all to stay clear. This material will sink and is soluble/dispersible in water, it is probably not recoverable. Notify authorities.

Methods for Clean-Up

Neutralize with an appropriate material and absorb with sand or inert material. Dispose of in accordance with federal, state and local regulations. US regulations

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling

Wash thoroughly after handling. Use personal protection recommended in Section 8. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin, eyes or clothing. Wash contaminated clothing thoroughly before reuse.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Store in a cool, dry well-ventilated area away from incompatible substances. Keep containers tightly closed. Store contents under containers that are resistant to caustic solutions. Store locked up.

Incompatible Materials

Oxidizers. Acidic conditions.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium Tolytriazole 64665-57-2	n.a	n.a	n.a

Appropriate engineering controls

Engineering Controls Local exhaust ventilation recommended. Showers. Eyewash stations.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Wear chemical splash goggles and face shield.

Skin and Body Protection Rubber or neoprene gloves. Rubber boots and aprons as needed for protection against spills and/or splashes.

Respiratory Protection Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination or type ABEK (EN14387) respirator cartridges as a backup to engineering controls.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid	Odor	Characteristic
Appearance	Yellowish liquid	Odor Threshold	Not determined
Color	Yellowish		
<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>	
pH	13.5		
Melting Point/Freezing Point	-8° C / 17.6° F		
Boiling Point/Boiling Range	100° C / 212 °F		
Flash Point	180° C / 356° F		
Evaporation Rate	<1		
Flammability (Solid, Gas)	n/a-liquid		
Upper Flammability Limits	Not applicable		
Lower Flammability Limit	Not applicable		
Vapor Pressure	0.04 mm_hg @ 20° C		
Vapor Density	Not available		
Specific Gravity	1.19	(1=Water)	
Water Solubility	Miscible in water		
Solubility in other solvents	Not determined		
Partition Coefficient	Not determined		
Auto-ignition Temperature	Not applicable		
Decomposition Temperature	Not determined		
Kinematic Viscosity	Not determined		
Dynamic Viscosity	Not determined		
Explosive Properties	Not determined		
Oxidizing Properties	Not determined		

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to Avoid

None.

Incompatible Materials

Oxidizers. Strong acids.

Hazardous Decomposition Products

Toxic gases/vapors/fume of carbon monoxide, carbon dioxide, nitrogen oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact

Causes severe eye damage.

Skin Contact

Causes severe skin burns. May be harmful in contact with skin. Irritation may be delayed by several hours.

Inhalation

Toxic if inhaled.

Ingestion

May be harmful if swallowed.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Acetic acid 64-19-7	= 3310 mg/kg (Rat)	= 1060 mg/kg (Rabbit)	= 11.4 mg/L (Rat) 4 h
Copper sulfate 7758-98-7	= 300 mg/kg (Rat)	= 1000 mg/kg (Rabbit)	-

Information on physical, chemical and toxicological effects

Symptoms

Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity

This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Numerical measures of toxicity

Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic life with long lasting effects.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Sodium Tolytriazole 64665-57-2		LC50, Bluegill (<i>Lepomis macrochirus</i>), 191.2 MG/L, 96 H. LC50, Rainbow Trout (<i>Oncorhynchus mykiss</i>), 23.70 MG/L, 96 H.		LC50, Water Flea (<i>Daphnia magna</i>), 245.7 MG/L, 48 H.

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes

D002 Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

Note

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT

UN/ID No

Regulated

UN 3267

Proper Shipping Name

Corrosive Liquid Basic Organic (Sodium Tolytriazole)

Hazard Class

8

Packing Group

II

IATA

UN/ID No

UN3267

Proper Shipping Name

Corrosive Liquid Basic Organic (Sodium Tolytriazole)

Hazard Class

8

Packing Group

II

IMDG

UN/ID No

UN3267

Proper Shipping Name

Corrosive Liquid Basic Organic (Sodium Tolytriazole)

Hazard Class

8

Packing Group

II

Marine Pollutant

This material may meet the definition of a marine pollutant

15. REGULATORY INFORMATION

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (chemical name)	S.302 (EHS)	S.304 RQ	S.313 (TRI)
64665-57-2	Sodium Tolytriazole	No	No	No

This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated:

Yes No Acute (immediate) Health Hazard
 Yes No Chronic (delayed) Health Hazard
 Yes No Fire Hazard
 Yes No Sudden Release of Pressure Hazard
 Yes No Reactive Hazard

CAS #	Hazardous Components (Chemical Name)
64665-57-2	Sodium Tolytriazole

Other US EPA or State Lists

CAA HAP, ODC: No; CWA NPDES: No; TSCA: Yes - Inventory, 4 Test; CA PROP.65: No

CAS #	Hazardous Components (Chemical Name)
64665-57-2	Sodium Tolytriazole

International Regulatory Lists

Canadian DSL: Yes; Canadian NDSDL: No; Mexico INSQ: No; Australia ICS: Yes; China IECSC: Yes; Japan ENCS: Yes - (5)-3601; Korea ECL: Yes - KE-23499; Philippines ICCS: Yes; Taiwan TCSCA: Yes; REACH: Yes - (R), (P)

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards	Flammability	Instability	Special Hazards
	3	0	0	Not determined
<u>HMIS</u>	Health Hazards	Flammability	Physical Hazards	Personal Protection
	Not determined	Not determined	Not determined	Not determined

Issue Date:	01-Jan-2011
Revision Date:	08-Jan-2015
Revision Note:	New format

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet