

LTS Research Laboratories, Inc. Safety Data Sheet Tris(dimethylamino)aluminum

1. Product and Company Identification

Trade Name: Tris(dimethylamino)aluminum

Chemical Formula: $C_{12}H_{36}Al_2N_6$

Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.

Street: 2001 Oaks Pkwy

City: Belmont State: North Carolina

Zip Code: 28012 Country: USA

Tel #: 855-587-2436 / 855-lts-chem

24-Hour Emergency Contact: 800-424-9300 (US & Canada)

+1-703-527-3887 (International)

2. Hazards Identification

Signal Word:

Danger



Hazard Statements:

H228: Flammable solid

H260: In contact with water releases flammable gases which may ignite

spontaneously

H314: Causes severe skin burns and eye damage

H335: May cause respiratory irritation

Precautionary Statements:

P210: Keep away from heat/sparks/open flames/hot surfaces – No

smoking

P223: Keep away from any possible contact with water, because of

violent reaction and possible flash fire

P231: Handle under inert gas P232: Protect from moisture

P240: Ground/bond container and receiving equipment

P241: Use explosion-proof electrical/ventilating/light/equipment

P260: Do not breathe dust/fume/gas/mist/vapors/spray

P264: Wash face, hands, and any exposed skin thoroughly after

handling

P271: Use only outdoors or in a well-ventilated area

P280: Wear protective gloves/protective clothing/eye protection/face protection

P310: Immediately call a POISON CENTER or doctor/physician P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce

miting

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off

immediately all contaminated clothing. Rinse skin with water/shower P304+P340: IF INHALED: Remove victim to fresh air and keep at rest

in a position comfortable for breathing

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing

P335+P334: Brush off loose particles from skin. Immerse in cool

water/wrap in wet bandages

P370+P378: In case of fire: Use CO2, dry chemical, or foam for

extinction

P402+P404: Store in a dry place. Store in a closed container

P403+P233: Store in a well-ventilated place. Keep container tightly

closed

P405: Store locked up

P501: Dispose of contents/container in accordance with local/regional/

national/international regulations

HMIS Health Ratings (0-4):

Health: 3 Flammability: 3 Physical: 2

3. Composition

Chemical Family: Organometallics

Additional Names: N/A

Tris(dimethylamino)aluminum ($C_{12}H_{36}Al_2N_6$)

Percentage: 100 wt% CAS #: 32093-39-3 EC #: N/A

4. First Aid Procedures

General Treatment: Seek medical attention if symptoms persist.

Special Treatment: None Important Symptoms: N/A

Inhalation: Remove victim to fresh air. Supply oxygen if breathing is difficult.

Seek medical attention.

Ingestion: Rinse mouth with water. Do not induce vomiting. Seek medical

attention.

Skin: Wash affected area with mild soap and water. Remove any

contaminated clothing. Seek medical attention.

Eyes: Flush eyes with water, blinking often for several minutes. Remove

contact lenses if present and easy to do. Continue rinsing. Seek medical

attention.

5. Firefighting Measures

Flammability: Flammable

Extinguishing Media: No special restrictions – use suitable extinguishing agent for

surrounding material and type of fire.

Spec. Fire Fighting Procedure: Use full-face, self-contained breathing apparatus with full protective

clothing to prevent contact with skin and eyes. See section 10 for

decomposition products.

6. Accidental Release Measures

If Material Is Released/Spilled: Wear appropriate respiratory and protective equipment specified in

special protection information. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal.

Take care not to raise dust.

Environmental Precautions: Isolate runoff to prevent environmental pollution.

7. Handling and Storage

Handling Conditions: Wash thoroughly after handling.

Storage Conditions: Store in a cool dry place in a tightly sealed container. Store apart from

materials and conditions listed in section 10.

Work/Hygienic Maintenance: Do not use tobacco or food in work area. Wash thoroughly before

eating and smoking. Do not blow dust off clothing or skin with

compressed air.

Ventilation: Provide sufficient ventilation to maintain concentration at or below

threshold limit.

8. Exposure Controls and Personal Protection

Permissible Exposure Limits: N/A
Threshold Limit Value: N/A

Special Equipment: None

Respiratory Protection:
Protective Gloves:

Dust Respirator
Rubber gloves

Check gloves prior to each use

Eye Protection: Safety glasses or goggles

Body Protection: Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

9. Physical and Chemical Characteristics

Color Light Brown

Form: Powder, Custom parts Odor: Amine compounds

Water Solubility:

N/A

Boiling Point:

Melting Point:

Flash Point:

Autoignition Temperature:

N/A

Density:

Molecular weight:

N/A

N/A g/cm³

318.42 g/mol

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Oxidizing agents

Incompatible Conditions: Exposure to moist air or water. Exposure to moisture.

Hazardous Decomposition Products: None under normal use conditions

11. Toxicological Information

Potential Health Effects:

Eyes: Causes eye damage
Skin: Causes severe skin burns
Ingestion: May cause irritation
Inhalation: May cause irritation

Chronic: N/A

Signs & Symptoms: N/A Aggravated Medical Conditions: N/A

Median Lethal Dose: N/A

Carcinogen: N/A

12. Ecological Information

Aquatic Toxicity: N/A
Persistent Bioaccumulation Toxicity: N/A
Very Persistent, Very Bioaccumulative: N/A
Notes: N/A

13. Disposal Considerations

Dispose of in accordance with local, state, national, and international regulations.

14. Transportation Data

Hazardous: Hazardous for transportation





Hazard Class:

Secondary Hazard Class:

Packing Group:

UN Number:

4.3

8

UN3131

Proper Shipping Name: Water-reactive solid, corrosive, n.o.s (Tris(dimethylamino)aluminum)

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Sec 302 Extremely Hazardous: N/A
Sec 304 Reportable Quantities: N/A
Sec 313 Toxic Chemicals: N/A

16. Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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