

# SAFETY DATA SHEET

Revision Date 31-Mar-2024

**Revision Number** 3

1. Identification

**Product Name** 

# Tris(dimethylamino)aluminum dimer

Cat No.: 43237

CAS No Synonyms

Recommended Use Uses advised against

No information available Laboratory chemicals. Food, drug, pesticide or biocidal product use.

32093-39-3

#### Details of the supplier of the safety data sheet

#### <u>Company</u>

Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757

#### **Emergency Telephone Number**

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe**:001-703-527-3887

#### 2. Hazard(s) identification

#### **Classification**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable solids	Category 1
Substances/mixtures which, in contact with water, emit	Category 1
flammable gases	
Skin Corrosion/Irritation	Category 1 B
Serious Eye Damage/Eye Irritation	Category 1
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Respiratory system.	

#### Label Elements

Signal Word Danger

Hazard Statements Flammable solid In contact with water releases flammable gases which may ignite spontaneously Causes severe skin burns and eye damage May cause respiratory irritation



#### Precautionary Statements Prevention

Use only outdoors or in a well-ventilated area

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Ground/bond container and receiving equipment

Use explosion-proof electrical/ventilating/lighting equipment

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

Wash face, hands and any exposed skin thoroughly after handling

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

Keep away from any possible contact with water, because of violent reaction and possible flash fire

Handle under inert gas. Protect from moisture

#### Response

Immediately call a POISON CENTER or doctor/physician

#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

#### Skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse

Brush off loose particles from skin. Immerse in cool water/wrap with wet bandages

#### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Ingestion

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

#### Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

#### Storage

Store in a well-ventilated place. Keep container tightly closed

Store locked up

Store in a dry place. Store in a closed container

#### Disposal

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

Reacts violently with water

### 3. Composition/Information on Ingredients

Component	CAS No	Weight %
Tris(dimethylamino)aluminum dimer	32093-39-3	<=100

#### 4. First-aid measures

**General Advice** 

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required. Keep eye wide open while rinsing.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Call a physician immediately.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Call a physician or poison control center immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
Ingestion	Immediate medical attention is required. Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person.
Most important symptoms and effects	Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation
Notes to Physician	Treat symptomatically

### 5. Fire-fighting measures

Suitable Extinguishing Media	$\mbox{CO}_{\mbox{\tiny 2}},$ dry chemical, dry sand, alcohol-resistant foam.
Unsuitable Extinguishing Media	No information available
Flash Point	21 °C / 69.8 °F
Method -	No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

#### **Specific Hazards Arising from the Chemical**

Reacts violently with water. The product causes burns of eyes, skin and mucous membranes.

#### **Hazardous Combustion Products**

#### Dimethylamine.

#### **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. Thermal decomposition can lead to release of irritating gases and vapors.

<u>NFPA</u> Health 3	Flammability 3	Instability 2	Physical hazards W	
	6. Accidental rel	lease measures		
Personal Precaution		Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Evacuate personnel to safe areas.		
Environmental Preca	Do not allow material to co	Do not allow material to contaminate ground water system. Should not be released into the environment. See Section 12 for additional Ecological Information.		
Methods for Contain Up	ment and Clean Sweep up and shovel into a Avoid dust formation.	suitable containers for disposa	I. Do not expose spill to water.	

7. Handling and storage		
Handling	Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Do not allow contact with water. Use only under a chemical fume hood. Do not breathe dust. Do not ingest. If swallowed then seek immediate medical assistance.	
Storage.	Corrosives area. Keep away from water or moist air. Keep containers tightly closed in a dry, cool and well-ventilated place.	
8. E	xposure controls / personal protection	
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.	
	Ensure that evenuesh stations and estatic showers are place to the workstation location	
Engineering Measures	Ensure that eyewash stations and safety showers are close to the workstation location.	
Personal Protective Equipment		
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.	
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.	
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.	
Recommended Filter type:	Particulates filter conforming to EN 143.	
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.	

# 9. Physical and chemical properties

9.	Physical and chemical properties			
Physical State	Solid			
Appearance	Light brown			
Odor	Amine compounds			
Odor Threshold	No information available			
рН	No information available			
Melting Point/Range	87 - 89 °C / 188.6 - 192.2 °F			
Boiling Point/Range	90 °C / 194 °F			
Flash Point	21 °C / 69.8 °F			
Evaporation Rate	Not applicable			
Flammability (solid,gas)	No information available			
Flammability or explosive limits				
Upper	No data available			
Lower	No data available			
Vapor Pressure	No information available			
Vapor Density	Not applicable			
Specific Gravity	0.865 g/cm3			
Solubility	No information available			
Partition coefficient; n-octanol/water	r No data available			
Autoignition Temperature	No information available			
Decomposition Temperature	No information available			
Viscosity	Not applicable			
Molecular Formula	C12 H36 Al2 N6			
Molecular Weight	318.42			

	10. Stability and reactivity	
Reactive Hazard	Yes	
Stability	Stable under normal conditions.	
Conditions to Avoid	Exposure to moist air or water. Exposure to moisture.	
Incompatible Materials	Strong oxidizing agents	
Hazardous Decomposition Products Dimethylamine		
Hazardous Polymerization	Hazardous polymerization does not occur.	
Hazardous Reactions	None under normal processing. Reacts violently with water.	

11. Toxicological information

Acute Toxicity

Product Information   Component Information   Toxicologically Synergistic No information available   Products   Delayed and immediate effects as well as chronic effects from short and long-term exposure		
Irritation	No information available	
Sensitization	No information available	

Sensitization

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Tris(dimethylamino)alu minum dimer	32093-39-3	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects	enic Effects No information available					
Reproductive Effect	S	No information available.				
Developmental Effect	cts	No information available.				
Teratogenicity		No information available.				
STOT - single expos STOT - repeated exp		Respiratory system None known				
Aspiration hazard		No information available				
Symptoms / effects delayed	both acute and,	d Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation				
Endocrine Disruptor	Information	No information available				
Other Adverse Effec	ts	The toxicological properties have not been fully investigated.				
		12. Ecol	ogical infor	mation		

Ecotoxicity Do not empty into drains.

Persistence and Degradability	No information available
<b>Bioaccumulation/ Accumulation</b>	No information available.
Mobility	No information available.
	13. Disposal considerations
Waste Disposal Methods	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.
	14. Transport information
DOT	

DOT	
UN-No	UN3131
Proper Shipping Name	Water-reactive solid, corrosive, n.o.s.
Technical Name	(Tris(dimethylamino)aluminum dimer)
Hazard Class	4.3
Subsidiary Hazard Class	8
Packing Group	1
TDG	
UN-No	UN3131
Proper Shipping Name	Water-reactive solid, corrosive, n.o.s.
Hazard Class	4.3
Subsidiary Hazard Class	8
Packing Group	I
IATA	
UN-No	UN3131
Proper Shipping Name	WATER-REACTIVE SOLID, CORROSIVE, N.O.S.*
Hazard Class	4.3
Subsidiary Hazard Class	8
Packing Group	
IMDG/IMO	
UN-No	UN3131
Proper Shipping Name	Water-reactive solid, corrosive, n.o.s.
Hazard Class	4.3
Subsidiary Hazard Class	8
Packing Group	1
	15. Regulatory information
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#### **United States of America Inventory**

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Tris(dimethylamino)aluminum dimer	32093-39-3	-	-	-

#### Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

#### TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

Not applicable

Not applicable

International Inventories Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea

(KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Tris(dimethylamino)aluminum	32093-39-3	-	-	-	-	-		-	-	-
dimer										

**KECL** - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

#### U.S. Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
<b>OSHA</b> - Occupational Safety and Health Administration	Not applicable

#### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations	Not applicable
<b>U.S. Department of Transportation</b> Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	
Mexico - Grade	No information available

#### Authorisation/Restrictions according to EU REACH

Not applicable

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	· · · · J · · · J	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Tris(dimethylamino)aluminum dimer	32093-39-3	-	-	-

#### Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Tris(dimethylamino)aluminum dimer	32093-39-3	Not applicable	Not applicable	Not applicable	Not applicable

#### Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

#### Other International Regulations

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Tris(dimethylamino)aluminum dimer	32093-39-3	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information
Prepared By	Health, Safety and Environmental Department Email: chem.techinfo@thermofisher.com www.thermofisher.com
Revision Date Print Date Revision Summary	31-Mar-2024 31-Mar-2024 New emergency telephone response service provider.

#### 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 SDS