

# TRIS(DIMETHYLAMINO)ANTIMONYSafety Data Sheet OMAN080Date of issue: 03/04/2015Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product name	: TRIS(DIMETHYLAMINO)ANTIMONY
Product code	: OMAN080
Product form	: Substance
Physical state	: Liquid
Formula	: C6H18N3Sb
Synonyms	: AMTIMONYTRIS(DIMETHYLAMIDE)
Chemical family	: ORGANOANTIMONY
1.2. Recommended use and restrictions	on use
Recommended use	: Chemical intermediate
1.3.SupplierGELEST, INC.11 East Steel RoadMorrisville, PA 19067USAT 215-547-1015 - F 215-547-2484 - (M-F): 8:00 Ainfo@gelest.com- www.gelest.com	M - 5:30 PM EST
1.4. Emergency telephone number	
Emergency number	: CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or mi	xture
GHS-US classification         Flammable liquids Category 3         Skin corrosion/irritation Category 2         Serious eye damage/eye irritation Category 2A         Specific target organ toxicity (single exposure) Category 16         Full text of H statements : see section 16         2.2.       GHS Label elements, including precation	
GHS US labeling	autoriary statements
Hazard pictograms (GHS US)	
Signal word (GHS US)	: Warning
Hazard statements (GHS US)	<ul> <li>H226 - Flammable liquid and vapor</li> <li>H315 - Causes skin irritation</li> <li>H319 - Causes serious eye irritation</li> <li>H335 - May cause respiratory irritation</li> </ul>
Precautionary statements (GHS US)	<ul> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P210 - Keep away from heat, open flames, sparks No smoking.</li> <li>P240 - Ground/Bond container and receiving equipment</li> <li>P241 - Use explosion-proof electrical equipment</li> <li>P242 - Use only non-sparking tools.</li> <li>P243 - Take precautionary measures against static discharge.</li> <li>P261 - Avoid breathing vapors.</li> <li>P264 - Wash hands thoroughly after handling.</li> <li>P271 - Use only outdoors or in a well-ventilated area.</li> <li>P303+P361+P353 - If on skin (or hair): take off immediately all contaminated clothing. rinse skin with water/shower</li> <li>P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing</li> <li>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing</li> <li>P312 - Call a doctor if you feel unwell</li> <li>P332+P313 - If eye irritation persists: Get medical advice/attention.</li> <li>P370+P378 - In case of fire: Use water spray, foam, carbon dioxide, dry chemical to extinguish.</li> </ul>
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	P403+P235 - Keep in a P405 - Store locked up		·	
2.3. Hazards not otherwise classified	(HNOC)			
No additional information available				
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
SECTION 3: Composition/Informat	ion on ingredients			
3.1. Substances				
Substance type	: Mono-constituent			
Name	: TRIS(DIMETHYLAMIN	IO)ANTIMONY		
CAS-No.	: 7289-92-1			
Name Tris(dimethylamino)antimony		Product identifier (CAS-No.) 7289-92-1	<b>%</b> > 95	GHS-US classification Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Full text of hazard classes and H-statements :	see section 16			
3.2. Mixtures				
Not applicable				
SECTION 4: First-aid measures				
I.1. Description of first aid measures				
First-aid measures general		ately (show the label whe		dent or if you feel unwell, seek e). If possible show this sheet; if not
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.			
First-aid measures after skin contact	: Wash with plenty of soap and water. Get medical advice/attention.			
First-aid measures after eye contact	: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.			
First-aid measures after ingestion	: Never give anything by	mouth to an unconscious	s person. (	Get medical advice/attention.
4.2. Most important symptoms and eff				
Symptoms/effects after inhalation		irritation. Overexposure n	hay cause:	: Coughing. Headache. Nausea.
Symptoms/effects after skin contact	: Causes skin irritation.	itation		
Symptoms/effects after eye contact Symptoms/effects after ingestion	<ul> <li>Causes serious eye irri</li> <li>May be harmful if swall</li> </ul>			
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2			
4.3. Immediate medical attention and No additional information available	special treatment, if necess	ary		
SECTION 5: Fire-fighting measure				
5.1. Suitable (and unsuitable) extingu				
Suitable extinguishing media	: Water spray. Foam. Ca	arbon dioxide. Dry chemic	al.	
5.2. Specific hazards arising from the				
Fire hazard	develop when material	is exposed to water or op		nine and organic acid vapors may
5.3. Special protective equipment and				a sub an fighting area do anti- 1.0
Firefighting instructions		•		on when fighting any chemical fire.
Protection during firefighting		contact and do not breath		
SECTION 6: Accidental release me				
6.1. Personal precautions, protective		procedures		
General measures	: Remove ignition source		oid static	electric charges.
6.1.1. For non-emergency personnel Emergency procedures	: Evacuate unnecessary	personnel.		
6.1.2. For emergency responders Protective equipment	: Equip cleanup crew wit	th proper protection.		
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6.2.	6.2. Environmental precautions			
Prever	Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.			
6.3.	Methods and material for containment and cleaning up			
Method	ds for cleaning up	: Clean up any spills as soon as possible, using an absorbent material to collect it. Sweep or shovel spills into appropriate container for disposal. Use only non-sparking tools.		
6.4.	Reference to other sections			
See He	eading 8. Exposure controls and persona	l protection.		
SECT	ION 7: Handling and storage			
7.1.	Precautions for safe handling			
Precau	itions for safe handling	Avoid all eye and skin contact and do not breathe vapor and mist. Provide good ventilation in process area to prevent accumulation of vapors. Ground/bond container and receiving equipment. Take precautionary measures against static discharge. Use only non-sparking tools.		
Hygien	e measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse.		
7.2.	7.2. Conditions for safe storage, including any incompatibilities			
Storag	e conditions	: Keep container tightly closed.		
Incomp	batible materials	: Acids. Alcohols. Moisture. Oxidizing agent. Water.		
Storag	e area	: Store in a well-ventilated place. Store away from heat.		

# **SECTION 8: Exposure controls/personal protection**

# 8.1. Control parameters

Tris(dimethylamino)antimony (7289-92-1)		
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup> (Sb2O3)
OSHA	OSHA PEL (TWA) (ppm)	10 ppm Dimethylamine

# 8.2. Appropriate engineering controls

Appropriate engineering controls : Provide local exhaust or general room ventilation.

# 8.3. Individual protection measures/Personal protective equipment

## Personal protective equipment:

Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

## Hand protection:

Neoprene or nitrile rubber gloves

#### Eye protection:

Chemical goggles. Contact lenses should not be worn

### Skin and body protection:

Wear suitable protective clothing

### **Respiratory protection:**

NIOSH-certified combination organic vapor - amine gas (brown cartridge) respirator.

SECTION 9: Physical and chemical properties			
9.1. Information on basic physical and	I chemical properties		
Physical state	: Liquid		
Appearance	: Liquid.		
Molecular mass	: 253.98 g/mol		
Color	: Straw.		
Odor	: Acrid. Amine.		
Odor threshold	: No data available		
Refractive index	: No data available		
рН	: No data available		
Relative evaporation rate (butyl acetate=1)	: No data available		
Melting point	: No data available		

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Freezing point	: <0°C
Boiling point	: 50 - 52 °C @ 0.5 mm Hg
Flash point	: <60 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Flammable liquid and vapor
Vapor pressure	: < 0.2 mm Hg @ 20°C
Relative vapor density at 20 °C	: >1
Relative density	: 1.325
Solubility	: Reacts with water.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: No data available
9.2. Other information	

No additional information available

SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Stable in sealed containers stored under a dry inert atmosphere	
10.3. Possibility of hazardous reactions	
Reacts with water and moisture in air, liberating dimethylamine.	
10.4. Conditions to avoid	
Heat. Open flame. Sparks.	
10.5. Incompatible materials	
Acids. Alcohols. Moisture. Oxidizing agent. Water.	
10.6. Hazardous decomposition products	
Dimethylamine. Hydrogen. Organic acid vapors.	
SECTION 11: Toxicological information	
11.1. Information on toxicological effects	

Acute toxicity	: Not classified
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity - single exposure	: May cause respiratory irritation.
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: Not classified
Symptoms/effects after inhalation	: May cause respiratory irritation. Overexposure may cause: Coughing. Headache. Nausea.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: May be harmful if swallowed.
Reason for classification	: Expert judgment

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SECTION 12: Ecological information	
12.1. Toxicity	
No additional information available	
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
42.5 Other advance officials	
12.5. Other adverse effects Other adverse effects	: This substance may be hazardous to the environment.
Effect on the ozone layer	: No additional information available
SECTION 13: Disposal consideration	
13.1. Disposal methods	
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Dispose of
	contents/container to licensed waste disposal facility.
Ecology - waste materials	: Avoid release to the environment.
<b>SECTION 14: Transport information</b>	
14.1. UN number	
UN-No.(DOT)	: 1993
DOT NA no.	UN1993
14.2. UN proper shipping name	
Transport document description	: UN1993 Flammable liquids, n.o.s. (TRIS(DIMETHYLAMINO)ANTIMONY), 3, III
Proper Shipping Name (DOT)	: Flammable liquids, n.o.s.
	(TRIS(DIMETHYLAMINO)ANTIMONY)
Class (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Packing group (DOT)	: III - Minor Danger
Hazard labels (DOT)	: 3 - Flammable liquid
	TAMMATE LIQUE
	3
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Symbols	: G - Identifies PSN requiring a technical name
14.3. Additional information	
Emergency Response Guide (ERG) Number	: 128
Other information	: No supplementary information available.
Transport by sea	
Transport by sea DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a
	passenger vessel.
Air transport	
DOT Quantity Limitations Passenger aircraft/rail	. 601
(49 CFR 173.27)	
DOT Quantity Limitations Cargo aircraft only (49	: 220 L
CFR 175.75)	

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SECTION 15: Regulatory information	
15.1. US Federal regulations	
TRIS(DIMETHYLAMINO)ANTIMONY (7289-92-1)	
TSCA Exemption/Exclusion	CAUTION: This material is supplied for research and development purposes subject to the R&D exemption under TSCA, 40 CFR 720.36, and must meet the requirements of the exemption, including supervision by a "technically qualified individual" as defined by 40 CFR 720.3(ee). The use of this material for "commercial purposes" as defined by 40 CFR 720.3(r) is not permitted in the United States.

### Tris(dimethylamino)antimony (7289-92-1)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 15.2. International regulations

CANADA

No additional information available

# EU-Regulations

No additional information available

# National regulations

No additional information available

# 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

# **SECTION 16: Other information**

Full text of H-phrases::	
H226	Flammable liquid and vapor
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
Concent millimete threshole Health; I Program Registra Europea and Dev	ations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal tration; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: ers Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: d limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and IARC: International Agency for Research on Cancer; NTP: National Toxicology n; HMIS: Hazardous Material Information System; CAS No.: Chemcial Abstract Service tion Number; EC No.: European Commission Registration Number; EC Index No.: an Commission Index Number; OECD: The Organisation for Economic Co-operation relopment; GHS: The Globally Harmonized System of Classification and Labelling; signed Protection Factor.
Hazard Rating	
Health : 3 Seriou given	us Hazard - Major injury likely unless prompt action is taken and medical treatment is
condition	is Hazard - Materials capable of ignition under almost all normal temperature ns. Includes flammable liquids with flash points below 73 F and boiling points above is well as liquids with flash points between 73 F and 100 F. (Classes IB & IC)
tempera	Hazard - Materials that are normally stable but can become unstable (self-react) at high tures and pressures. Materials may react non-violently with water or undergo us polymerization in the absence of inhibitors.

## Prepared by safety and environmental affairs.

Date of issue: 03/04/2015 Version: 1.0

SDS US (GHS HazCom 2012) - Custom

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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