

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

Enabling Your Technology	
SECTION 1: Identification of the sub	ostance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Substance
Physical state	: Liquid
Substance name	: TRIS(DIMETHYLAMINO)ANTIMONY
Product code	: OMAN080
Formula	: C6H18N3Sb
Synonyms	: AMTIMONYTRIS(DIMETHYLAMIDE)
Chemical family	: ORGANOANTIMONY
1.2. Relevant identified uses of the subs	stance or mixture and uses advised against
1.2.1. Relevant identified uses	
Use of the substance/mixture	: Chemical intermediate
 Uses advised against No additional information available Details of the supplier of the safety 	data shoot
GELEST, INC.	
11 East Steel Road	
Morrisville, PA 19067	
USA T 215-547-1015 - F 215-547-2484 - (M-F): 8:00	AM - 5:30 PM EST
info@gelest.com - www.gelest.com	
GELEST INC.	
Fritz-Klatte-Strasse 8	
65933 Frankfurt	
Germany	
T +49 (0) 69 3535106-500 - F +49 (0) 69 353510	06-501 - (M-F): 8:00 AM - 4:00 PM
info@gelestde.com - www.gelestde.com	
1.4. Emergency telephone number	
Emergency number	: CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)
SECTION 2: Hazards identification	
2.1. Classification of the substance or n	nixture
Classification according to Regulation (EC)	No. 1272/2008 ICL PI
Flammable liquids, Category 3	H226
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Specific target organ toxicity — Single exposure Respiratory tract irritation	
Full text of H statements : see section 16	
Adverse physicochemical, human health and No additional information available	I environmental effects
2.2. Label elements	
Labelling according to Regulation (EC) No. 1	272/2008 [CLP]
Hazard pictograms (CLP)	

Signal word (CLP)

: Warning

GHS02

GHS07

Hazard statements (CLP)	 H226 - Flammable liquid and vapour. H315 - Causes skin irritation. H319 - Causes serious eye irritation. H335 - May cause respiratory irritation.
Precautionary statements (CLP)	 P280 - Wear protective gloves/protective clothing/eye protection/face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P240 - Ground/bond container and receiving equipment. P261 - Avoid breathing vapours. P264 - Wash hands thoroughly after handling. P312 - Call a doctor if you feel unwell.

2.3. Other hazards No additional information available

SECTION 3: Composition/	information on ingredients			
3.1. Substances				
Substance type	: Mono-constituent			
Name	: TRIS(DIMETHYLAMINO)ANTIMON	IY		
CAS-No.	: 7289-92-1	89-92-1		
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
Tris(dimethylamino)antimony	(CAS-No.) 7289-92-1	> 95	Flam. Liq. 3, H226 Skin Irrit. 2, H315	

Full text of H-statements: see section 16

3.2. Mixtures	
Not applicable	
SECTION 4: First aid measures	
4.1. Description of first aid measur	es
First-aid measures general	: Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). If possible show this sheet; if not available show packaging or label.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medica advice.
First-aid measures after skin contact	: Wash with plenty of 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, i present and easy to do. Continue rinsing. Get medical advice/attention.
First-aid measures after ingestion	: Never give anything by mouth to an unconscious person. Get medical advice/attention.
4.2. Most important symptoms and	l effects, both acute and delayed
Symptoms/effects after inhalation	: May cause respiratory irritation. Overexposure may cause: Cough. 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.
4.3. Indication of any immediate me	edical attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measur	res
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Foam. Carbon dioxide. Dry chemical.
5.2. Special hazards arising from the	he substance or mixture
Fire hazard	: Flammable liquid and vapour. Irritating fumes of dimethylamine and organic acid vapors may develop when material is exposed to water or open flame.
5.3. Advice for firefighters	
Firefighting instructions	: Use water spray to cool exposed surfaces. Exercise caution when fighting any chemical fire.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Avoid all eye and skin contact and do not breathe vapour and mist.
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Seneral measures	protoctive equipment and c		
	s, protective equipment and e	emergency procedures	
	: Remove ig	nition sources. Use special	care to avoid static electric charges.
5.1.1. For non-emergency p	personnel		
mergency procedures	: Evacuate u	unnecessary personnel.	
.1.2. For emergency respo	onders		
Protective equipment		nup crew with proper proted	ction.
3.2. Environmental preca			
Prevent entry to sewers and pub		iquid enters sewers or publi	ic waters.
,	I for containment and cleani		
Aethods for cleaning up		•	le, using an absorbent material to collect it. Sweep or
iethous for cleaning up			r for disposal. Use only non-sparking tools.
.4. Reference to other se	ections		
See Heading 8. Exposure contro	Is and personal protection.		
SECTION 7: Handling an	d storage		
.1. Precautions for safe	handling		
Precautions for safe handling	process ar	ea to prevent formation of v	not breathe vapour and mist. Provide good ventilation in vapour. Ground/bond container and receiving equipment. static discharge. Use only non-sparking tools.
lygiene measures	Wash hand	ds and other exposed areas	s with mild soap and water before eating, drinking or h contaminated clothing before reuse.
2.2. Conditions for safe s	torage, including any incom	patibilities	
Storage conditions		ainer tightly closed.	
ncompatible materials		hols. Moisture. Oxidizing ag	•
Storage area	: Store in a v	well-ventilated place. Store	away from heat.
7.3. Specific end use(s)			
lo additional information availab	le		
SECTION 8: Exposure co	ontrols/personal protec	tion	
Control parameters			
	/ (7289-92-1)		
Tris(dimethylamino)antimony	ACGIH TWA (mg/m ³)		500 mg/m ³ (Sb2O3)
Tris(dimethylamino)antimony Italy - Portugal - USA ACGIH	(ing/in)		10 ppm Dimethylamine
	OSHA PEL (TWA) (ppm)		10 ppm Dimethylamine
Italy - Portugal - USA ACGIH USA OSHA	(0)		
Italy - Portugal - USA ACGIH USA OSHA .2. Exposure controls	OSHA PEL (TWA) (ppm)		
Italy - Portugal - USA ACGIH USA OSHA .2. Exposure controls Appropriate engineering contr	OSHA PEL (TWA) (ppm)		
Italy - Portugal - USA ACGIH USA OSHA 2. Exposure controls Appropriate engineering contr Provide local exhaust or general	OSHA PEL (TWA) (ppm) ols: room ventilation.		
Italy - Portugal - USA ACGIH USA OSHA .2. Exposure controls Appropriate engineering contr Provide local exhaust or general Personal protective equipment woid all unnecessary exposure.	OSHA PEL (TWA) (ppm) ols: room ventilation.	as and safety showers shou	Id be available in the immediate vicinity of any potential
Italy - Portugal - USA ACGIH USA OSHA 2. Exposure controls Appropriate engineering contr Provide local exhaust or general Personal protective equipment Avoid all unnecessary exposure.	OSHA PEL (TWA) (ppm) ols: room ventilation.	as and safety showers shou	
Italy - Portugal - USA ACGIH USA OSHA 2. Exposure controls Appropriate engineering contr Provide local exhaust or general Personal protective equipment void all unnecessary exposure. Xposure. Iand protection:	OSHA PEL (TWA) (ppm) ols: room ventilation. t: Emergency eye wash fountain	as and safety showers shou	
Italy - Portugal - USA ACGIH USA OSHA .2. Exposure controls Appropriate engineering contr Provide local exhaust or general Personal protective equipment avoid all unnecessary exposure. Exposure. Hand protection: leoprene or nitrile rubber gloves	OSHA PEL (TWA) (ppm) ols: room ventilation. t: Emergency eye wash fountain	as and safety showers shou	
Italy - Portugal - USA ACGIH USA OSHA .2. Exposure controls Appropriate engineering contr Provide local exhaust or general Personal protective equipment Avoid all unnecessary exposure. Hand protection: Reoprene or nitrile rubber gloves Eye protection:	OSHA PEL (TWA) (ppm) ols: room ventilation. t: Emergency eye wash fountain	as and safety showers shou	
Italy - Portugal - USA ACGIH USA OSHA .2. Exposure controls Appropriate engineering contr Provide local exhaust or general Personal protective equipment avoid all unnecessary exposure. Exposure. Hand protection: leoprene or nitrile rubber gloves	OSHA PEL (TWA) (ppm) ols: room ventilation. t: Emergency eye wash fountain	as and safety showers shou	

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 chemical properties			
Physical state	: Liquid		
Appearance	: Liquid.		
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Molecular mass	: 253.98 g/mol
Colour	: Straw.
Odour	: Acrid. Amine.
Odour threshold	: No data available
Refractive index	: No additional information available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
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 vapour.
Vapour pressure	: < 0.2 mm Hg @ 20°C
Relative vapour 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
Oxidising properties	: No data available
Explosive limits	: No data available
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivit	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability Stable in sealed containers stored under a dry	inart atmosphore
10.3. Possibility of hazardous reactions	
Reacts with water and moisture in air, liberatin	g dimethylamine.
10.4. Conditions to avoid	
Heat. Open flame. Sparks.	
10.5. Incompatible materials	
Acids. alcohols. Moisture. Oxidizing agent. Wa	ter :
10.6. Hazardous decomposition produc	
Dimethylamine. Hydrogen. Organic acid vapor	
SECTION 11: Toxicological information	
11.1. Information on toxicological effec	
Acute toxicity	: Not classified
·	
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified

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
SECTION 12: Ecological information	
12.1. Toxicity	
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified
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	
12.5. Results of PBT and vPvB assessme	nf
No additional information available	IK
12.6. Other adverse effects	
Other adverse effects	: This substance may be hazardous to the environment.
SECTION 13: Disposal consideration	ns
13.1. Waste treatment 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.
SECTION 14: Transport information	
14.1. UN number	
In accordance with ADR / RID / IMDG / IATA / A	DN
44.4 Libi number	
14.1. UN number	: 1993
UN-No. (ADR) UN-No. (IMDG)	: 1993
UN-No. (IATA)	: 1993
UN-No. (ADN)	: 1993
UN-No. (RID)	: 1993
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: FLAMMABLE LIQUID, N.O.S.
Proper Shipping Name (IMDG)	: FLAMMABLE LIQUID, N.O.S.
Proper Shipping Name (IATA)	: Flammable liquid, n.o.s.
Proper Shipping Name (ADN)	: FLAMMABLE LIQUID, N.O.S.
Proper Shipping Name (RID)	: FLAMMABLE LIQUID, N.O.S.
Transport document description (ADR)	: UN 1993 FLAMMABLE LIQUID, N.O.S. (TRIS(DIMETHYLAMINO)ANTIMONY), 3, III, (D/E)
Transport document description (IMDG)	: UN 1993 FLAMMABLE LIQUID, N.O.S. (TRIS(DIMETHYLAMINO)ANTIMONY), 3, III
Transport document description (IATA)	: UN 1993 Flammable liquid, n.o.s. (TRIS(DIMETHYLAMINO)ANTIMONY), 3, III
Transport document description (ADN)	: UN 1993 FLAMMABLE LIQUID, N.O.S. (TRIS(DIMETHYLAMINO)ANTIMONY), 3, III
Transport document description (RID)	: UN 1993 FLAMMABLE LIQUID, N.O.S. (TRIS(DIMETHYLAMINO)ANTIMONY), 3, III
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: 3
Danger labels (ADR)	: 3

IMDG Transport hazard class(es) (IMDG)	: 3		
Danger labels (IMDG)	: 3		
	:		
	3		
ΙΑΤΑ			
Transport hazard class(es) (IATA)	: 3		
Hazard labels (IATA)	: 3		
	3		
ADN			
ADN Transport hazard class(es) (ADN)	: 3		
Danger labels (ADN)	: 3		
	$\langle \underline{\bullet} \rangle$		
	3		
RID Transport hazard class(es) (RID)	· 3		
Danger labels (RID)	: 3		
	3		
14.4. Packing group			
Packing group (ADR)	: 111		
Packing group (IMDG)	: 111		
Packing group (IATA) Packing group (ADN)	: III : III		
Packing group (RID)	: 111		
14.5. Environmental hazards			
Dangerous for the environment	: No		
Marine pollutant	: No		
Other information	: No supplementary informa	tion available	
14.6. Special precautions for use	r		
- Overland transport			
Classification code (ADR)	: F1		
Special provisions (ADR)	: 274, 601, 640E		
Limited quantities (ADR)	: 51		
Excepted quantities (ADR) Packing instructions (ADR)	: E1 : P001, IBC03, LP01, R001		
Mixed packing provisions (ADR)	: MP19		
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Portable tank and bulk container instructions (ADR)	: T4
Portable tank and bulk container special provisions (ADR)	: TP1, TP29
Tank code (ADR)	: LGBF
Vehicle for tank carriage	: FL
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V12
Special provisions for carriage - Operation (ADR)	: S2
Hazard identification number (Kemler No.)	: 30
Orange plates	
	30 1993
Tunnel restriction code (ADR)	: D/E
- Transport by sea	
Special provisions (IMDG)	: 223, 274, 955
Limited quantities (IMDG)	: 5L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P001, LP01
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1, TP29
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	S-E
Stowage category (IMDG)	: A
- Air transport	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y344
PCA limited quantity max net quantity (IATA)	: 10L
PCA packing instructions (IATA)	: 355
PCA max net quantity (IATA)	: 60L
CAO packing instructions (IATA)	: 366
CAO max net quantity (IATA)	: 220L
Special provisions (IATA)	: A3
ERG code (IATA)	: 3L
- Inland waterway transport	
Classification code (ADN)	: F1
Special provisions (ADN)	: 274, 601, 640E
Limited quantities (ADN)	: 5L
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01
Number of blue cones/lights (ADN)	: 0
- Rail transport	
Classification code (RID)	: F1
Special provisions (RID)	: 274, 601, 640E
Limited quantities (RID)	: 5L
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T4

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Portable tank and bulk container special provisions (RID)	: TP1, TP29
Tank codes for RID tanks (RID)	: LGBF
Transport category (RID)	: 3
Special provisions for carriage – Packages (RID)	: W12
Colis express (express parcels) (RID)	: CE4
Hazard identification number (RID)	: 30
14.7. Transport in bulk according to Ann	nex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

TRIS(DIMETHYLAMINO)ANTIMONY is not on the REACH Candidate List

TRIS(DIMETHYLAMINO)ANTIMONY is not on the REACH Annex XIV List

TRIS(DIMETHYLAMINO)ANTIMONY is not subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

TRIS(DIMETHYLAMINO)ANTIMONY is not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC

15.1.2. National regulations

Germany

Germany			
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	:	Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)	
Netherlands			
SZW-lijst van kankerverwekkende stoffen	1	The substance is not listed	
SZW-lijst van mutagene stoffen	1	The substance is not listed	
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	;	The substance is not listed	
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	4	The substance is not listed	
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	:	The substance is not listed	
Denmark			
Class for fire hazard	:	Class III-1	
Store unit	:	50 liter	
Classification remarks	:	Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed	
Danish National Regulations	:	Young people below the age of 18 years are not allowed to use the product	

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Abbreviations and acronyms:

Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Concentration; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemcial Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: European Commission Index Number; OECD: The Organisation for Economic Co-operation and Development; GHS: The Globally Harmonized System of Classification and Labelling; APF: Assigned Protection Factor

Other information

: Prepared by safety and environmental affairs.

Full text of H- and EUH-statements:

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Skin Irrit. 2	Skin corrosion/irritation, Category 2

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STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

SDS EU (REACH Annex II) - Custom

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