TRIETHYLAMINE AR MSDS

CAS-No.: 121-44-8 MSDS



MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1.	Product identifier		
Produc	ct form	:	Substance
		:	
EC Inc	lex-No.	:	612-004-00-5
EC-No).	:	204-469-4
CAS-N	lo.	:	121-44-8
Produc	ct code	:	00346

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Industrial/Professional use spec

: Industrial For professional use only

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

SPAN LAB UNIT NO. 14,SKY INDUSTRIAL ESTATE,WALIV, VASAI (E) 401208 Mumbai - INDIA PH: +91 9820509929 info@spanlab.in_www.spanlab.in

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, H225 Category 2 Acute toxicity (oral), H302 Category 4 Acute toxicity (dermal), H312 Category 4 Acute toxicity (inhal.), H332 Category 4 Skin corrosion/irritation, H314 Category 1A

Full text of H statements : see section 16

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Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

F; R11 Xn; R20/21/22 C; R35 Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects No additional information available

2.2. Label elements	
Labelling according to Regulation (EC)	No. 1272/2008 [CLP]
Hazard pictograms (CLP)	
	GHS02 GHS05 GHS07
Signal word (CLP)	: Danger
Hazard statements (CLP)	 H225 - Highly flammable liquid and vapour. H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled H314 - Causes severe skin burns and eye damage.
Precautionary statements (CLP)	 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P280 - Wear protective gloves, protective clothing, eye protection, face protection. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER/doctor

2.3. Other hazards

No additional information available

SECTION 3: Composition/inform	nation on ingredients	
3.1. Substances		
Name	: TRIETHYLAMINE AR	
CAS-No.	: 121-44-8	
EC-No.	: 204-469-4	
EC Index-No.	: 612-004-00-5	

Full text of R- and H-statements: see section 16

3.2. Mixtures

Not applicable

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SECTION 4: First aid measures

4.1.	Description of first aid measures	
First-aid	measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
First-aid	measures after skin contact	: Immediately call a POISON CENTER/doctor. Wash with plenty of water/ Wash contaminated clothing before reuse.
First-aid	measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
First-aid	measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Get medical advice/attention.
4.2.	Most important symptoms and ef	fects, both acute and delayed
Symptor	ns/effects	: Causes severe skin burns and eye damage.
Symptor	ns/effects after inhalation	: Harmful if inhaled.
Symptor	ns/effects after skin contact	: Harmful in contact with skin.
Symptor	ns/effects after ingestion	: Harmful if swallowed.
4.3.	Indication of any immediate medi	cal attention and special treatment needed
Treat sy	mptomatically.	
SECTIO	N 5: Firefighting measures	
5.1.	Extinguishing media	
		: Carbon dioxide. Dry powder. Foam. Water spray.
Unsuitat	le extinguishing media	: Do not use extinguishing media containing water.
5.2.	Special hazards arising from the	
Fire haz		: Highly flammable liquid and vapour.
Explosio	n hazard	: May form flammable/explosive vapour-air mixture.
5.3.	Advice for firefighters	
Protectio	on during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTIO	N 6: Accidental release measures	
6.1.	Personal processions, protective	equipment and emergency procedures
		: Remove ignition sources. Use special care to avoid static electric charges. No open
General	measures	flames. No smoking.
6.1.1.	For non-emergency personnel	
Emerger	ncy procedures	: Evacuate unnecessary personnel.
6.1.2.	For emergency responders	
Protectiv	e equipment	: Use personal protective equipment as required.
6.2.	Environmental precautions	
Avoid re	lease to the environment.	
6.3.	Methods and material for contain	ment and cleaning up
Methods	for cleaning up	: On land, sweep or shovel into suitable containers.
6.4.	Reference to other sections	
No addit	ional information available	
SECTIO	N 7: Handling and storage	
7.1.	Precautions for safe handling	
	al hazards when processed	: Handle empty containers with care because residual vapours are flammable.
	ons for safe handling	: Keep away from sources of ignition - No smoking. Use only non-sparking tools. Do not breathe vapours. Avoid contact with skin and eyes.

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Hygiene measures	: Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2. Conditions for safe stora	ige, including any incompatibilities
Technical measures	 Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment.
Storage conditions	: Keep in fireproof place. Keep container tightly closed.
Incompatible materials	: Heat sources.
Packaging materials	: Do not store in corrodable metal.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/p	ersonal protection
8.1. Control parameters	
No additional information available	

8.2. Exposure controls	
Hand protection	: Protective gloves
Eye protection	: Chemical goggles or face shield
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: Wear respiratory protection.
SECTION 9: Physical and chemical prop	erties
9.1. Information on basic physical a	nd chemical properties
Physical state	: Liquid
Molecular mass	: 101.19 g/mol
Colour	: Clear Colorless.
Odour	: strong ammonia-like odor.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: 5.6
Melting point	: -115 °C
Freezing point	: No data available
Boiling point	: 88.8 °C
Flash point	: -11 °C
Auto-ignition temperature	: 312 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: Flammable Highly flammable liquid and vapour.

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Vapour pressure	: 68.99 hPa at 20 °C
Relative vapour density at 20 °C	: 3.5
Relative density	: No data available
Density Solubility	: 0.73 g/cm³ : Water: 5.5 g/100ml @ 20°C
Log Pow	: 1.15
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: 0.012 - 0.08 vol %
No additional information available SECTION 10: Stability and reactivity 10.1. Reactivity Thermal decomposition generates : Co 10.2. Chemical stability Stable under normal conditions. 10.3. Possibility of hazardous rea No additional information available 10.4. Conditions to avoid Open flame. Heat. Sparks. Overheatin 10.5. Incompatible materials No additional information available	orrosive vapours. actions
10.6. Hazardous decomposition point No additional information available	products
SECTION 11: Toxicological informat	ion
11.1. Information on toxicological Acute toxicity	al effects : Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled.
Skin corrosion/irritation Serious eye damage/irritation	 Causes severe skin burns and eye damage. Serious eye damage, category 1, implicit

- Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified
- Carcinogenicity : Not classified
- Reproductive toxicity : Not classified
- STOT-single exposure : Not classified

dditional information	: Corrosive to the respiratory tract.
TOT-repeated exposure	: Not classified
spiration hazard	: Not classified
Potential adverse human health effects and symptoms	: Harmful if swallowed. Harmful in contact with skin.
SECTION 12: Ecological information	
2.1. Toxicity	
No additional information available	
12.2. Persistence and degradability No additional information available	
12.3. Bioaccumulative potential	
TRIETHYLAMINE AR (121-44-8)	
TRIETHYLAMINE AR (121-44-8) Log Pow	1.15
	1.15
Log Pow 12.4. Mobility in soil	1.15
Log Pow 12.4. Mobility in soil	1.15
Log Pow I2.4. Mobility in soil No additional information available	
Log Pow Log Pow 12.4. Mobility in soil No additional information available 12.5. Results of PBT and vPvB asserted	
Log Pow 12.4. Mobility in soil No additional information available 12.5. Results of PBT and vPvB asse No additional information available	
Log Pow 12.4. Mobility in soil No additional information available 12.5. Results of PBT and vPvB asse No additional information available 12.6. Other adverse effects	
Log Pow I2.4. Mobility in soil No additional information available I2.5. Results of PBT and vPvB asse No additional information available I2.6. Other adverse effects No additional information available	
Log Pow 12.4. Mobility in soil No additional information available 12.5. Results of PBT and vPvB asse No additional information available 12.6. Other adverse effects No additional information available SECTION 13: Disposal considerations	
Log Pow 12.4. Mobility in soil No additional information available 12.5. Results of PBT and vPvB asse No additional information available 12.6. Other adverse effects No additional information available 12.6. Other adverse effects No additional information available SECTION 13: Disposal considerations 13.1. Waste treatment methods Product/Packaging disposal	ssment : Dispose of contents/container to hazardous or special waste collection point, in
Log Pow 12.4. Mobility in soil No additional information available 12.5. Results of PBT and vPvB asse No additional information available 12.6. Other adverse effects No additional information available SECTION 13: Disposal considerations	ssment

14.1. UN number		
UN-No. (ADR)	: 1296	
UN-No. (IMDG)	: 1296	
UN-No. (IATA)	: 1296	
UN-No. (ADN)	: 1296	
UN-No. (RID)	: 1296	

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14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: TRIETHYLAMINE
Proper Shipping Name (IMDG)	: TRIETHYLAMINE
Proper Shipping Name (IATA)	: Triethylamine
Proper Shipping Name (ADN)	: TRIETHYLAMINE
Proper Shipping Name (RID)	: TRIETHYLAMINE
Transport document description (ADR)	: UN 1296 TRIETHYLAMINE, 3 (8), II, (D/E)
Transport document description (IMDG)	: UN 1296 TRIETHYLAMINE, 3 (8), II (-11°C c.c.)
Transport document description (IATA)	: UN 1296 Triethylamine, 3 (8), II
Transport document description (ADN)	: UN 1296 TRIETHYLAMINE, 3 (8), II
Transport document description (RID)	: UN 1296 TRIETHYLAMINE, 3 (8), II
14.3. Transport hazard class(es)	

14.3.	Iransport hazard class(es)
ADR	
Transpo	rt hazard class(es) (ADR)
Danger	labels (ADR)



: 3 (8)

:



IMDG
Transport hazard class(es) (IMDG)
Danger labels (IMDG)



Transport hazard class(es) (IATA)	
Hazard labels (IATA)	





Transport hazard class(es) (ADN) Danger labels (ADN)





RID

Transport hazard class(es) (RID)

: 3 (8)

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Danger labels (RID)

: 3, 8



14.4. Packing group			
Packing group (ADR)	: 11		
Packing group (IMDG)	: 11		
Packing group (IATA)	: 11		
Packing group (ADN)	: 11		
Packing group (RID)	: 11		
14.5. Environmental hazards			

: No
: No
: No supplementary information available

14.6. Special	precautions	for user
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- Overland transport		
Classification code (ADR)	:	FC
Limited quantities (ADR)	:	11
Excepted quantities (ADR)	:	E2
Packing instructions (ADR)	:	P001, IBC02
Mixed packing provisions (ADR)	:	MP19
Portable tank and bulk container instructions (ADR)	:	Τ7
Portable tank and bulk container special provisions (ADR)	:	TP1
Tank code (ADR)	:	L4BH
Vehicle for tank carriage	:	FL
Transport category (ADR)	:	2
Special provisions for carriage - Operation (ADR)	:	S2, S20
Hazard identification number (Kemler No.)	:	338
Orange plates	:	338
		1296
Tunnel restriction code (ADR)	:	
Tunnel restriction code (ADR) EAC code	-	1296
	-	1296 D/E
EAC code	-	1296 D/E •2WE
EAC code APP code	:	1296 D/E •2WE
EAC code APP code - Transport by sea	:	1296 D/E •2WE A(fl)
EAC code APP code - Transport by sea Limited quantities (IMDG)	:	1296 D/E •2WE A(fl) 1 L
EAC code APP code - Transport by sea Limited quantities (IMDG) Excepted quantities (IMDG)		1296 D/E •2WE A(fl) 1 L E2
EAC code APP code - Transport by sea Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG)		1296 D/E •2WE A(fl) 1 L E2 P001
EAC code APP code - Transport by sea Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG)		1296 D/E •2WE A(fl) 1 L E2 P001 IBC02
EAC code APP code - Transport by sea Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) Tank instructions (IMDG)		1296 D/E •2WE A(fl) 1 L E2 P001 IBC02 T7
EAC code APP code - Transport by sea Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG)		1296 D/E •2WE A(fl) 1 L E2 P001 IBC02 T7 TP1

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Stowage and handling (IMDG)	: SW2
Flash point (IMDG)	: -11°C c.c.
Properties and observations (IMDG)	: Colourless liquid with a strong ammonia-like odour. Flashpoint: -11°C c.c. Explosive limits: 1.2% to 8% Miscible with water. Harmful by inhalation. Causes burns to skin and eyes. Irritating to mucous membranes.
MFAG-No	: 132
- Air transport	
PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y340
PCA limited quantity max net quantity (IATA)	: 0.5L
PCA packing instructions (IATA)	: 352
PCA max net quantity (IATA)	: 1L
CAO packing instructions (IATA)	: 363
CAO max net quantity (IATA)	: 5L
ERG code (IATA)	: 3CH
- Inland waterway transport	
Classification code (ADN)	: FC
Limited quantities (ADN)	: 1L
Excepted quantities (ADN)	: E2
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP, EP, EX, A
Ventilation (ADN)	: VE01
Number of blue cones/lights (ADN)	: 1
- Rail transport	
Classification code (RID)	: FC
Limited quantities (RID)	: 1L
Excepted quantities (RID)	: E2
Packing instructions (RID)	: P001, IBC02
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T7
Portable tank and bulk container special provisions (RID)	: TP1
Tank codes for RID tanks (RID)	: L4BH
Transport category (RID)	: 2
Colis express (express parcels) (RID)	: CE7
Hazard identification number (RID)	: 338

14.7. Transport in bulk according to Annex II of MARPOL 73/78 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 TRIETHYLAMINE AR is not on the REACH Candidate List TRIETHYLAMINE AR is not on the REACH Annex XIV List Safety Data Sheet

15.1.2. National regulations

Germany

Connaily		
Reference to AwSV	:	Water hazard class (WGK) 1, Slightly hazardous to water (Classification according to AwSV; ID No. 556)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	:	Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)
Netherlands		
SZW-lijst van kankerverwekkende stoffen	:	The substance is not listed
SZW-lijst van mutagene stoffen	:	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	:	The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	:	The substance is not listed
Denmark		
Classification remarks	:	Emergency management guidelines for the storage of flammable liquids must be followed
Recommendations Danish Regulation	:	Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of R-, H- and EUH-statements:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Flam. Liq. 2	Flammable liquids, Category 2	
Skin Corr. 1A	Skin corrosion/irritation, Category 1A	
H225	Highly flammable liquid and vapour.	
H302	Harmful if swallowed.	
H312	Harmful in contact with skin.	
H314	Causes severe skin burns and eye damage.	
H332	Harmful if inhaled.	
R11	Highly flammable	
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed	
R35	Causes severe burns	
С	Corrosive	

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F	Highly flammable
Xn	Harmful

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.