TERT-BUTYLAMINE AR MSDS

CAS No: 75-64-9 MSDS



MATERIAL SAFETY DATA SHEET (MSDS)

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

1.1. Product identifier

Product form : Substance

Trade name : tert-BUTYLAMINE AR

CAS No : 75-64-9
Product code : 0065B

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Laboratory chemicals, Manufacture of substances

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

LOBA CHEMIE PVT.LTD.

107 Wode House Road, Jehangir Villa, Colaba
400005 Mumbai - INDIA
T +91 22 6663 6663 - F +91 22 6663 6699
info@lobachemie.com - www.lobachemie.com

1.4. Emergency telephone number

Emergency number : + 91 22 6663 6663 (9:00am - 6:00 pm)

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

Skin corrosion/irritation, H314

Category 1A

Acute toxicity (inhal.), H332

Category 4

Acute toxicity (oral), H302

Category 4

Full text of classification categories and H statements : see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC

F; C; T; R11-20/22-35

Full text of R-phrases: see section 16

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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+H332 - Harmful if swallowed or if inhaled H314 - Causes severe skin burns and eye damage

Precautionary statements (CLP) : P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

P260 - Do not breathe dust/fume/gas/mist/vapours/spray

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 or doctor/physician

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Name : tert-BUTYLAMINE AR

CAS No : 75-64-9

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

3.2. Mixture

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Immediately call a POISON CENTER or doctor/physician.

First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated

clothing. Immediately call a POISON CENTER or doctor/physician.

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 or

doctor/physician.

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First-aid measures after ingestion : Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell. Do

NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Causes severe skin burns and eye damage.

Symptoms/injuries after ingestion : Swallowing a small quantity of this material will result in serious health hazard.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray.

Unsuitable extinguishing media : dry chemical powder.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapour.

Explosion hazard : May form flammable/explosive vapour-air mixture.

5.3. Advice for firefighters

No additional information available

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Use special care to avoid static electric charges. No naked

lights. No smoking.

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Use personal protective equipment as required.

Emergency procedures : Stop release.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Clear up rapidly by scoop or vacuum.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.

Precautions for safe handling : No naked lights. No smoking. Use only non-sparking tools. Do not breathe

dust/fume/gas/mist/vapours/spray. Avoid contact during pregnancy/while nursing.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash ... thoroughly after

handling.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed.

Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/... equipment. Comply with applicable regulations.

Storage conditions : Keep in fireproof place. Keep container tightly closed.

Incompatible materials : Heat sources.

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7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal 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 appropriate mask

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Colour : Clear Colorless.

Odour : ammonia odour.

Odour threshold : No data available

pH : 12.1 at 100 g/l at 25°C

Relative evaporation rate (butylacetate=1) : No data available

Melting point : -67 °C

Freezing point : No data available

Boiling point : $46 \,^{\circ}\text{C}$ Flash point : $-38 \,^{\circ}\text{C}$

Auto-ignition temperature : 380 °C

Decomposition temperature : No data available

Flammability (solid, gas) : Extremely Flammble

Highly flammable liquid and vapour

Vapour pressure : 392.9 hPa at 20°C

Relative vapour density at 20 °C : 2.53

Relative density : No data available

Density : 0.696 g/cm³

Solubility : Water: Completely soluble

Log Pow : 0.4

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Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

Explosive properties : No data available

Oxidising properties : No data available

Explosive limits : 0.017 - 0.098 vol %

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Thermal decomposition generates: Corrosive vapours.

10.2. Chemical stability

Highly flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Open flame. Direct sunlight.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

May release flammable gases. Thermal decomposition generates: Corrosive vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Inhalation: Harmful if inhaled. Oral: Harmful if swallowed.

Skin corrosion/irritation : Causes severe skin burns and eye damage.

pH: 12.1 at 100 g/l at 25°C

Serious eye damage/irritation : Serious eye damage, category 1, implicit

pH: 12.1 at 100 g/l at 25°C

Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

Reproductive toxicity : Not classified Specific target organ toxicity (single : Not classified

exposure)

: Not classified

Specific target organ toxicity (repeated

exposure)

Aspiration hazard : Not classified

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Potential adverse human health effects

and symptoms

: Harmful if swallowed.

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

tert-BUTYLAMINE AR (75-64-9)		
Log Pow	0.4	

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

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

recommendations

: Dispose of contents/container to ...

Additional information

: Handle empty containers with care because residual vapours are flammable.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR) : 2734 UN-No. (IMDG) : 2734 UN-No.(IATA) : 2734 UN-No.(ADN) : 2734 UN-No. (RID) : 2734

14.2. UN proper shipping name

Proper Shipping Name (ADR) : AMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S. / POLYAMINES, LIQUID,

CORROSIVE, FLAMMABLE, N.O.S.

Proper Shipping Name (IMDG) : AMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S. Proper Shipping Name (IATA) : AMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S.

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Proper Shipping Name (ADN) : AMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S. Proper Shipping Name (RID) : AMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S.

Transport document description (ADR) : UN 2734 AMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S. / POLYAMINES,

LIQUID, CORROSIVE, FLAMMABLE, N.O.S., 8 (3), I, (D/E)

Transport document description (IMDG) : UN 2734 AMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S., 8 (3), I
Transport document description (IATA) : UN 2734 AMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S., 8 (3), I
Transport document description (ADN) : UN 2734 AMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S., 8 (3), I
Transport document description (RID) : UN 2734 AMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S., 8 (3), I

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 8 (3)
Danger labels (ADR) : 8, 3



IMDG

Transport hazard class(es) (IMDG) : 8 (3)
Danger labels (IMDG) : 8, 3



IATA

Transport hazard class(es) (IATA) : 8 (3) Hazard labels (IATA) : 8, 3



ADN

Transport hazard class(es) (ADN) : 8 (3)
Danger labels (ADN) : 8, 3



RID

Transport hazard class(es) (RID) : 8 (3)
Danger labels (RID) : 8, 3

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14.4. Packing group

Packing group (ADR) : I
Packing group (IMDG) : I
Packing group (IATA) : I
Packing group (ADN) : I
Packing group (RID) : I

14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

14.6. Special precautions for user

- Overland transport

Classification code (ADR) : CF1
Special provision (ADR) : 274
Limited quantities (ADR) : 0
Excepted quantities (ADR) : E0
Packing instructions (ADR) : P001
Mixed packing provisions (ADR) : MP8, MP17

Portable tank and bulk container : T14

instructions (ADR)

Portable tank and bulk container special : TP2, TP27

provisions (ADR)

Tank code (ADR) : L10BH
Vehicle for tank carriage : FL
Transport category (ADR) : 1
Special provisions for carriage - Operation : S2, S14

(ADR)

Hazard identification number (Kemler No.) : 883

Orange plates

883 2734

: A

: SG35

Tunnel restriction code (ADR) : D/E
EAC code : •2W
APP code : A(fl)

- Transport by sea

Stowage category (IMDG)

Segregation (IMDG)

Special provision (IMDG) : 274 : 0 Limited quantities (IMDG) Excepted quantities (IMDG) : E0 Packing instructions (IMDG) : P001 Tank instructions (IMDG) : T14 : TP2, TP27 Tank special provisions (IMDG) : F-E EmS-No. (Fire) EmS-No. (Spillage) : S-C

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MFAG-No : 132

- Air transport

: E0 PCA Excepted quantities (IATA)

PCA Limited quantities (IATA) : Forbidden : Forbidden PCA limited quantity max net quantity

(IATA)

PCA packing instructions (IATA) : 850 PCA max net quantity (IATA) : 0.5L CAO packing instructions (IATA) : 854 CAO max net quantity (IATA) : 2.5L ERG code (IATA) : 8F

- Inland waterway transport

: CF1 Classification code (ADN) : 274 Special provisions (ADN) : 0 Limited quantities (ADN) Excepted quantities (ADN) : E0

Equipment required (ADN) : PP, EP, EX, A

Ventilation (ADN) : VE01 Number of blue cones/lights (ADN) : 1

- Rail transport

Classification code (RID) : CF1 Special provision (RID) : 274 : 0 Limited quantities (RID) Excepted quantities (RID) : F0 Packing instructions (RID) : P001 Mixed packing provisions (RID) : MP8, MP17 : T14

Portable tank and bulk container

instructions (RID)

Portable tank and bulk container special

provisions (RID)

: TP2, TP27

Tank codes for RID tanks (RID) : L10BH Special provisions for RID tanks (RID) : TU38, TE22

Transport category (RID) : 1 Hazard identification number (RID) : 883

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

tert-BUTYLAMINE AR is not on the REACH Candidate List tert-BUTYLAMINE AR is not on the REACH Annex XIV List

15.1.2. National regulations

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Germany

AwSV/VwVwS Annex reference : Water hazard class (WGK) 2, hazardous to water (KBwS-Beschluss; WGK No 1510)

12th Ordinance Implementing the Federal

Immission Control Act - 12.BImSchV

: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

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

Chemical safety assessment

No additional information available

SECTION 16: Other information

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

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
H314	Causes severe skin burns and eye damage
H332	Harmful if inhaled
F	Highly flammable

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

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