

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Reference number: 00065 Issue date: 2/28/2024 Revision date: 2/28/2024 Supersedes version of: 4/9/2015 Version: 1.0

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

1.1. Product identifier

Product form	: Substance
Trade name	: n-BUTYLAMINE AR
EC Index-No.	: 612-005-00-0
EC-No.	: 203-699-2
CAS-No.	: 109-73-9
Product code	: 00065
Type of product	: Amines
Formula	: C4H11N
Chemical structure	:

H₂N CH₃

Synonyms

: Butylamine, 1-Aminobutane

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

1.2.1. Relevant identified uses

Industrial/Professional use spec

Use of the substance/mixture

 Industrial For professional use only
 Laboratory chemicals Manufacture of substances Solvents

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, Category 2	H225			
Acute toxicity (oral), Category 4	H302			
Acute toxicity (dermal), Category 4	H312			
Acute toxicity (inhal.), Category 4	H332			
Skin corrosion/irritation, Category 1	H314			
Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	H335			
Full text of H- and EUH-statements: see section 16				

Adverse physicochemical, human health and environmental effects

No additional information available

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2.2. Label elements

Labelling according to Regulation (EC) No. 12	72/2008 [CLP]				
Hazard pictograms (CLP)					
Signal word (CLP)	GHS02 GHS05 GHS07 : Danger				
Hazard statements (CLP)	: H225 - Highly flammable liquid and vapour.				
Hazaru statements (CEF)	H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled.				
	H314 - Causes severe skin burns and eye damage.				
	H335 - May cause respiratory irritation.				
Precautionary statements (CLP)	 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P280 - Wear protective clothing, eye protection, face protection, protective gloves. P301+P312 - IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell. P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water . P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. 				
Nordic countries regulation					
Denmark					
MAL code	: 00-3 (Executive Order No. 301 from 1993)				
2.3. Other hazards					

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

SECTION 3: Composition/information on ingredients			
3.1. Substances			
Substance type :	Mono-constituent		
Name	Product identifier	%	
n-BUTYLAMINE	CAS-No.: 109-73-9 EC-No.: 203-699-2 EC Index-No.: 612-005-00-0	100	

3.2. Mixtures

Not applicable

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. Specific treatment is urgent (see supplemental first aid instruction on this label).
First-aid measures after skin contact	: Rinse skin with water/shower. Take off immediately all contaminated clothing. Immediately call a POISON CENTER/doctor. Specific measures (see supplemental first aid instruction on this label). 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. Specific treatment (see supplemental first aid instruction on this label).

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First-aid measures after ingestion	: Rinse mouth. Call a POISON CENTER/doctor if you feel unwell. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. Specific treatment (see supplemental first aid instruction on this label).			
4.2. Most important symptoms and eff	ects, both acute and delayed			
Symptoms/effects Symptoms/effects after inhalation Symptoms/effects after skin contact Symptoms/effects after eye contact Symptoms/effects after ingestion	 Causes severe skin burns and eye damage. Corrosive to the respiratory tract. Repeated exposure to this material can result in absorption through skin causing significant health hazard. Harmful in contact with skin. Causes serious eye damage. Swallowing a small quantity of this material will result in serious health hazard. 			
4.3. Indication of any immediate media	cal attention and special treatment needed			
Treat symptomatically.				
SECTION 5: Firefighting measures	;			
5.1. Extinguishing media				
Suitable extinguishing media Unsuitable extinguishing media	 dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2). Do not use a heavy water stream. 			
5.2. Special hazards arising from the substance or mixture				
Fire hazard Explosion hazard	Highly flammable liquid and vapour.May form flammable/explosive vapour-air mixture.			
5.3. Advice for firefighters				
Protection during firefighting	: Do not attempt to take action without suitable protective equipment.			

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 open flames. 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 a	nd cleaning up			
Methods for cleaning up	Collect spillage. On land, sweep or shovel into suitable containers. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.			
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.

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Precautions for safe handling Hygiene measures	 No open flames. No smoking. Use only non-sparking tools. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact during pregnancy/while nursing. Do not eat, drink or smoke when using this product. Wash hands, forearms and face 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.			
Packaging materials	: Do not store in corrodable metal.			
7.3. Specific end use(s)				

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No additional information available

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection: Chemical goggles or safety glasses

8.2.2.2. Skin protection

Skin and body protection: Wear a mask

Hand protection: Protective gloves

8.2.2.3. Respiratory protection

Respiratory protection: Wear appropriate mask

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8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

No additional information available

SECTION 9: Physical and chemical properties 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Colourless.
Appearance	: Clear liquid.
Molecular mass	: 73.14 g/mol
Odour	: fishy. ammonia odour.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: -49 °C
Boiling point	: 77 – 79 °C
Flammability	: Extremely flammable
	Highly flammable liquid and vapour.
Lower explosion limit	: 1.7 vol %
Upper explosion limit	: 9.8 vol %
Flash point	: -7 °C - closed cup
Auto-ignition temperature	: 312 °C
Decomposition temperature	: Not available
pH	: 12.6
pH solution concentration	: 10 %
Viscosity, kinematic	: 0.776 mm²/s
Viscosity, dynamic	: 0.574 mPa·s at 25 °C
Solubility	: Water: Miscible in water
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: 72 mm Hg at 20 °C
Vapour pressure at 50°C	: Not available
Density	: 0.74 g/cm³ at 25 °C
Relative density	: Not available
Relative vapour density at 20°C	: 2.5 (Air = 1.0)
Particle characteristics	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

Relative evaporation rate (butylacetate=1)	:	7.3
Refractive index	:	1.4 – 1.404 (20 °C, 589

SECTION 10: Stability and reactivity	SECTI	ON 10:	Stability	and read	ctivity
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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

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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 hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral)	: Harmful if swallowed.	
Acute toxicity (dermal)	: Harmful in contact with skin.	
Acute toxicity (inhalation)	: Harmful if inhaled.	
Skin corrosion/irritation	: Causes severe skin burns.	
Serious eye damage/irritation	pH: 12.6 : Assumed to cause serious eye damage pH: 12.6	
Respiratory or skin sensitisation	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
STOT-single exposure	: May cause respiratory irritation.	
Additional information	: Corrosive to the respiratory tract.	
STOT-repeated exposure	: Not classified	
Aspiration hazard	: Not classified	
n-BUTYLAMINE AR (109-73-9)		
Viscosity, kinematic	0.776 mm²/s	
11.2. Information on other hazards		
11.2.1. Endocrine disrupting properties		
No additional information available		

11.2.2. Other information

Potential adverse human health effects and : Harmful if swallowed,Harmful in contact with skin. symptoms

SECTION 12: Ecological information		
12.1. Toxicity		
(acute)	Not classified	
12.2. Persistence and degradability		
n-BUTYLAMINE AR (109-73-9)		
Persistence and degradability	Rapidly degradable	
12.3. Bioaccumulative potential		
No additional information available		

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12.4. Mobility in soil
No additional information available
12.5. Results of PBT and vPvB assessment
No additional information available
12.6. Endocrine disrupting properties
No additional information available
12.7. 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 hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
Additional information	: Handle empty containers with care because residual vapours are flammable.

SECTION 14: Transport information

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

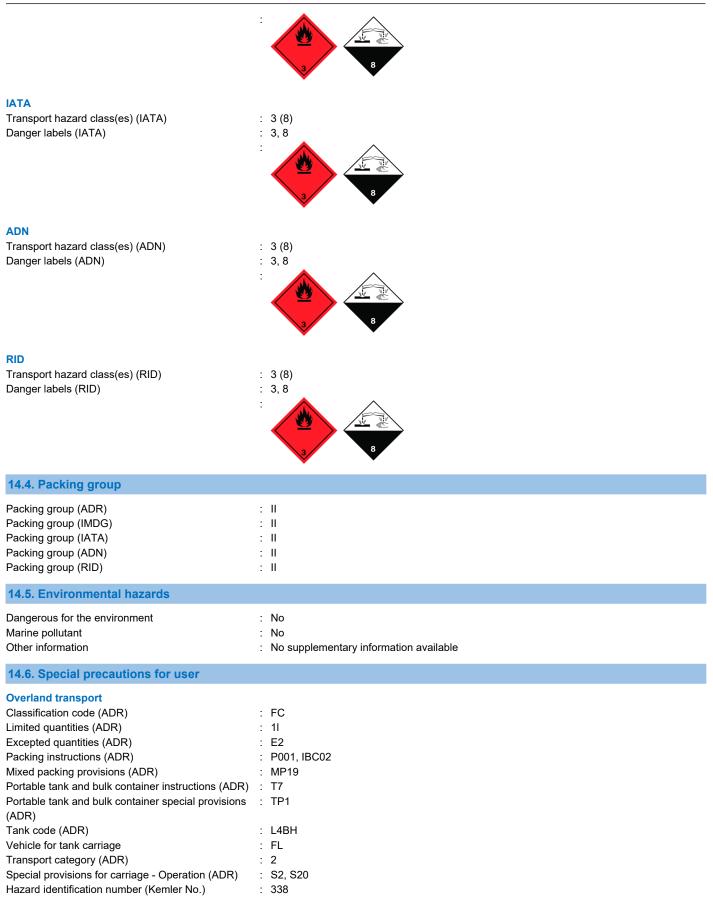
14.1. UN number or ID number	
UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN) UN-No. (RID)	: UN 1125 : UN 1125 : UN 1125 : UN 1125 : UN 1125 : UN 1125
14.2. UN proper shipping name	
Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Proper Shipping Name (ADN) Proper Shipping Name (RID) Transport document description (ADR) Transport document description (IMDG) Transport document description (IATA) Transport document description (ADN) Transport document description (RID)	 N-BUTYLAMINE n-BUTYLAMINE n-Butylamine N-BUTYLAMINE n-BUTYLAMINE uN 1125 N-BUTYLAMINE, 3 (8), II, (D/E) UN 1125 n-BUTYLAMINE, 3 (8), II (-9°C c.c.) UN 1125 n-Butylamine, 3 (8), II UN 1125 n-BUTYLAMINE, 3 (8), II UN 1125 n-BUTYLAMINE, 3 (8), II
14.3. Transport hazard class(es)	
ADR Transport hazard class(es) (ADR) Danger labels (ADR)	: 3 (8) : 3, 8 :

IMDG

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

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Orange plates	338 1125
Tunnel restriction code (ADR)	 : D/E
EAC code	: •2WE
APP code	: A(fl)
Transport by sea	
Limited quantities (IMDG)	: 1L
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T7
Tank special provisions (IMDG)	: TP1
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-C
Stowage category (IMDG)	: В
Stowage and handling (IMDG)	: SW2
Segregation (IMDG)	: SG35
Flash point (IMDG)	: -9°C c.c.
Properties and observations (IMDG)	: Flashpoint: -9°C c.c. Explosive limits: 1.7% to 10%. Colourless, volatile liquid with an ammonia-like odour. Miscible with water. Causes burns to skin, eyes and 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) ERG code (IATA)	: 5L : 3C
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) Number of blue cones/lights (ADN)	: VE01 : 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
	: T7 . TP1
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. Maritime transport in bulk according to	o IMO instruments

Not applicable

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SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)	
Reference code	Applicable on
3(a)	n-BUTYLAMINE AR
3(b)	n-BUTYLAMINE AR
40.	n-BUTYLAMINE AR

REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Not listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Not listed on the PIC list (Regulation EU 649/2012)

POP Regulation (Persistent Organic Pollutants)

Not listed on the POP list (Regulation EU 2019/1021)

Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

France

Occupational diseases		
Code I	Description	
RG 49 \$	Skin disorders caused by aliphatic, alicyclic amines or ethanolamines	
RG 49 BIS	Respiratory disorders caused by aliphatic amines, ethanolamines or isophoronediamine	
Germany		
Water hazard class (WGK) Hazardous Incident Ordinanc	e (12. BlmSchV)	 WGK 1, Slightly hazardous to water (Classification according to AwSV; ID No. 44). Is not subject to the Hazardous Incident Ordinance (12. BImSchV)
Netherlands		
SZW-lijst van kankerverwekkende stoffen SZW-lijst van mutagene stoffen SZW-lijst van reprotoxische stoffen – Borstvoeding SZW-lijst van reprotoxische stoffen – Vruchtbaarheid		 The substance is not listed
SZW-lijst van reprotoxische stoffen – Ontwikkeling :		: The substance is not listed

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Denmark

MAL code	: 00-3 (Executive Order No. 301 from 1993)
Classification remarks	: 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
	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 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
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.
H335	May cause respiratory irritation.
Skin Corr. 1	Skin corrosion/irritation, Category 1
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

Safety Data Sheet (SDS), EU

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.