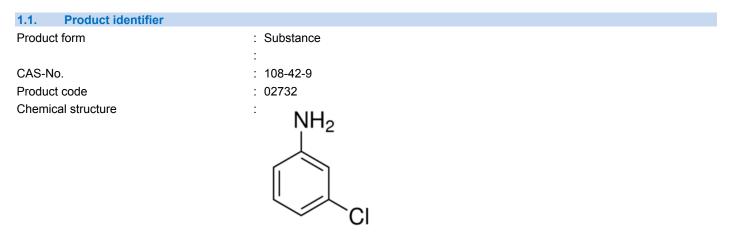


CAS-No.: 108-42-9 MSDS

MATERIAL SAFETY DATA SHEET (MSDS)

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



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

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]
Acute toxicity (oral), Category 3	H301
Acute toxicity (dermal), Category 3	H311
Acute toxicity (inhal.), Category 3	H331
Specific target organ toxicity — Repeated exposure, Category 2	H373

Safety Data Sheet

Hazardous to the aquatic H410 environment — Chronic Hazard, Category 1

Full text of H statements : see section 16

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

Muta.Cat.3; R68 T; R23/24/25 N; R50/53 R33 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)	
	GHS06 GHS08 GHS09
Signal word (CLP)	: Danger
Hazard statements (CLP)	 H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled H373 - May cause damage to organs through prolonged or repeated exposure. H410 - Very toxic to aquatic life with long lasting effects.
Precautionary statements (CLP)	 P261 - Avoid breathing vapours, dust, fume, gas. P311 - Call a doctor. P273 - Avoid release to the environment. P280 - Wear protective gloves, protective clothing, eye protection, face protection. P301+P310 - IF SWALLOWED: Immediately call a doctor. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients		
3.1. Substances		
Name	: 3-CHLOROANILINE FOR SYNTHESIS	
CAS-No.	: 108-42-9	

Safety Data Sheet

3.2. Mixtures

Not applicable

SECTION 4: First aid measures	
4.1. Description of first aid measures	3
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention.
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	: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes.
First-aid measures after ingestion	: Rinse mouth. Immediately call a POISON CENTER/doctor.
4.2. Most important symptoms and e	ffects, both acute and delayed
Symptoms/effects	: May cause damage to organs through prolonged or repeated exposure.
Symptoms/effects after inhalation	: Toxic if inhaled.
Symptoms/effects after skin contact	: Toxic in contact with skin.
Symptoms/effects after ingestion	: Toxic if swallowed.
4.3. Indication of any immediate med	lical attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Carbon dioxide. Dry powder. Foam. Water spray.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the	substance or mixture
No additional information available	
5.3. Advice for firefighters	
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release measures	3
6.1. Personal precautions, protective	equipment and emergency procedures
	equipment and emergency procedures
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	: Ventilate area.
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for contain	nment and cleaning up
Methods for cleaning up	: Collect spillage. On land, sweep or shovel into suitable containers.
6.4. Reference to other sections	
No additional information available	

3-CHLOROANILINE FOR SYNTHESIS Safety Data Sheet

SECTION 7: Handling and storage	
DECTION 7. Handling and Storage	
7.1. Precautions for safe handling	g
Precautions for safe handling	: Avoid contact with skin and eyes. Do not breathe vapours. Provide good ventilation in process area to prevent formation of vapour.
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 storage, i	including any incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep container tightly closed.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/perso	nal protection
9.4 Control noromotoro	
8.1. Control parameters	
No additional information available	

8.2. Exposure controls	
Hand protection	: Protective gloves
Eye protection	: Chemical goggles or safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: [In case of inadequate ventilation] wear respiratory protection.
SECTION 9: Physical and chemical prop	perties
9.1. Information on basic physical a	nd chemical properties
Physical state	: Liquid
Molecular mass	: 127.57 g/mol
Colour	: colorless to light yellow.
Odour	: characteristic odour.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: -10.4 °C
Freezing point	: No data available
Boiling point	: 95 - 96 °C
Flash point	: 190 °C
Auto-ignition temperature	: 500 °C
Decomposition temperature	: 190 °C
Flammability (solid, gas)	: No data available
www.lobachemie.com	18/05/2016 4/11

3-CHLOROANILINE FOR SYNTHESIS Safety Data Sheet

Safety Data Sheet		
Vapour pressure	: 0.05 mm Hg at 20°C	
Relative vapour density at 20 °C	: No data available	
Relative density	: No data available	
Density Solubility	: 1.206 g/cm³ : Water: Insoluble	
Log Pow	: 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 reactivity		
10.1. Reactivity No additional information available		
10.2. Chemical stability Stable under normal conditions.		
10.3. Possibility of hazardous reactions		
No additional information available		
10.4. Conditions to avoid		
Air contact. Direct sunlight. Heat. Open flame. Overheating.		
10.5. Incompatible materials No additional information available		
10.6 Hazardous decomposition	products	

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological ef	fects
Acute toxicity	: Oral: Toxic if swallowed. Dermal: Toxic in contact with skin. Inhalation: Toxic if inhaled.
Skin corresion/irritation	· Not alassified

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Depreductive toxicity	. Not close if ad
Reproductive toxicity	: Not classified

Safety Data Sheet

STOT-single exposure	: Not classified
STOT-repeated exposure Additional information	 May cause damage to organs through prolonged or repeated exposure. There are potential chronic health effects to consider
Aspiration hazard	: Not classified
Potential adverse human health effects and symptoms	: Toxic if swallowed. Toxic in contact with skin.
SECTION 12: Ecological information	

12.1.	Toxicity	
Ecology	/ - water	: Very toxic to aquatic life with long lasting effects.

12.2.	Persistence and degradability	
3-CHLOROANILINE FOR SYNTHESIS (108-42-9)		
Persist	ence and degradability	May cause long-term adverse effects in the environment.

12.3. Bioaccumulative potential

No additional information available

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 hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
Ecology - waste materials	: Hazardous waste due to toxicity.
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / I	ATA / ADN

14.1. UN number		
UN-No. (ADR)	: 2019	
UN-No. (IMDG)	: 2019	
UN-No. (IATA)	: 2019	

Safety Data Sheet

UN-No. (ADN)	: 2019
UN-No. (RID)	: 2019
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: CHLOROANILINES, LIQUID
Proper Shipping Name (IMDG)	: CHLOROANILINES, LIQUID
Proper Shipping Name (IATA)	: Chloroanilines, liquid
Proper Shipping Name (ADN)	: CHLOROANILINES, LIQUID
Proper Shipping Name (RID)	: CHLOROANILINES, LIQUID
Transport document description (ADR)	: UN 2019 CHLOROANILINES, LIQUID, 6.1, II, (D/E), ENVIRONMENTALLY HAZARDOUS
Transport document description (IMDG)	: UN 2019 CHLOROANILINES, LIQUID, 6.1, II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
Transport document description (IATA)	: UN 2019 Chloroanilines, liquid, 6.1, II, ENVIRONMENTALLY HAZARDOUS
Transport document description (ADN)	: UN 2019 CHLOROANILINES, LIQUID, 6.1, II, ENVIRONMENTALLY HAZARDOUS
Transport document description (RID)	: UN 2019 CHLOROANILINES, LIQUID, 6.1, II, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)	

ADR

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





IMDG

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



ΙΑΤΑ

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

ADN

Transport hazard class(es) (ADN) Danger labels (ADN) : 6.1 : 6.1

: 6.1

: 6.1



: 6.1 : 6.1



Safety Data Sheet

RID	
Transport hazard class(es) (RID)	: 6.1
Danger labels (RID)	: 6.1



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	
Dangerous for the environment	: Yes
Marine pollutant	: Yes
Other information	: No supplementary information available

14.6. Special precautions for user

- Overland transport

- Ovenanu transport	
Classification code (ADR)	: T1
Limited quantities (ADR)	: 100ml
Excepted quantities (ADR)	: E4
Packing instructions (ADR)	: P001, IBC02
Mixed packing provisions (ADR)	: MP15
Portable tank and bulk container instructions (ADR)	: T7
Portable tank and bulk container special provisions (ADR)	: TP2
Tank code (ADR)	: L4BH
Tank special provisions (ADR)	: TU15, TE19
Vehicle for tank carriage	: AT
Transport category (ADR)	: 2
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV13, CV28
Special provisions for carriage - Operation (ADR)	: S9, S19
	: S9, S19 : 60
(ADR)	
(ADR) Hazard identification number (Kemler No.)	: 60
(ADR) Hazard identification number (Kemler No.)	: 60 : 60
(ADR) Hazard identification number (Kemler No.) Orange plates	: 60 : 60 2019
(ADR) Hazard identification number (Kemler No.) Orange plates Tunnel restriction code (ADR)	: 60 : 60 2019 : D/E
(ADR) Hazard identification number (Kemler No.) Orange plates Tunnel restriction code (ADR) EAC code	: 60 : 60 2019 : D/E
(ADR) Hazard identification number (Kemler No.) Orange plates Tunnel restriction code (ADR) EAC code - Transport by sea	: 60 : 60 2019 : D/E : 2X
(ADR) Hazard identification number (Kemler No.) Orange plates Tunnel restriction code (ADR) EAC code - Transport by sea Packing instructions (IMDG)	: 60 : 60 2019 : D/E : 2X : P001
(ADR) Hazard identification number (Kemler No.) Orange plates Tunnel restriction code (ADR) EAC code - Transport by sea Packing instructions (IMDG) IBC packing instructions (IMDG)	: 60 : 60 2019 : D/E : 2X : P001 : IBC02
(ADR) Hazard identification number (Kemler No.) Orange plates Tunnel restriction code (ADR) EAC code - Transport by sea Packing instructions (IMDG) IBC packing instructions (IMDG) Tank instructions (IMDG)	: 60 : 60 2019 : D/E : 2X : P001 : IBC02 : T7

Safety Data Sheet

EmS-No. (Spillage)	: S-A
Stowage category (IMDG)	: A
Segregation (IMDG)	: SG35
Properties and observations (IMDG)	: Colourless liquid.May be a mixture of two of the isomers (e.g. ortho- and meta-) of chloroaniline. Reacts with acids. Toxic if swallowed, by skin contact or by inhalation.
MFAG-No	: 152
- Air transport	
PCA Excepted quantities (IATA)	: E4
PCA Limited quantities (IATA)	: Y641
PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 654
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 662
CAO max net quantity (IATA)	: 60L
ERG code (IATA)	: 6L
- Inland waterway transport	
Classification code (ADN)	: T1
Special provisions (ADN)	: 802
Limited quantities (ADN)	: 100 ml
Excepted quantities (ADN)	: E4
Equipment required (ADN)	: PP, EP, TOX, A
Ventilation (ADN)	: VE02
Number of blue cones/lights (ADN)	: 2
- Rail transport	
Classification code (RID)	: T1
Excepted quantities (RID)	: E4
Packing instructions (RID)	: P001, IBC02
Mixed packing provisions (RID)	: MP15
Portable tank and bulk container instructions (RID)	: T7
Portable tank and bulk container special provisions (RID)	: TP2
Tank codes for RID tanks (RID)	: L4BH
Special provisions for RID tanks (RID)	: TU15
Transport category (RID)	: 2
Special provisions for carriage - Loading, unloading and handling (RID)	: CW13, CW28, CW31
Colis express (express parcels) (RID)	: CE5
Hazard identification number (RID)	: 60

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

3-CHLOROANILINE FOR SYNTHESIS is not on the REACH Candidate List 3-CHLOROANILINE FOR SYNTHESIS is not on the REACH Annex XIV List Safety Data Sheet

15.1.2. National regulations

Germany	
Reference to AwSV	: Water hazard class (WGK) 2, significant hazard to water (Classification according to AwSV; ID No. 695)
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	: 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	
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 The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

15.2.	Chemical safety assessment					
No add	ditional information available					

SECTION 16: Other information

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

Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed

Safety Data Sheet

R33	Danger of cumulative effects
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R68	Possible risk of irreversible effects
Ν	Dangerous for the environment
Т	Тохіс

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