

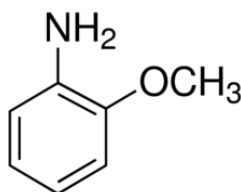
CAS-No.: 90-04-0 MSDS

## MATERIAL SAFETY DATA SHEET (MSDS)

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

## 1.1. Product identifier

Product form : Substance  
:  
EC Index-No. : 612-035-00-4  
EC-No. : 201-963-1  
CAS-No. : 90-04-0  
Product code : 01389  
Chemical structure :



## 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](mailto:info@lobachemie.com) - [www.lobachemie.com](http://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]

Carcinogenicity, Category 1B H350  
Acute toxicity (dermal), Category 3 H311  
Acute toxicity (inhal.), Category 3 H331  
Acute toxicity (oral), Category 3 H301  
Germ cell mutagenicity, H341

# o-ANISIDINE FOR SYNTHESIS

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Category 2

Full text of hazard classes and H-statements : see section 16

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

Carc.Cat.2; R45

Muta.Cat.3; R68

T; R23/24/25

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

Signal word (CLP) : Danger

Hazard statements (CLP) : H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled  
H341 - Suspected of causing genetic defects.  
H350 - May cause cancer.

Precautionary statements (CLP) : P201 - Obtain special instructions before use.  
P261 - Avoid breathing vapours, dust, fume, gas.  
P280 - Wear protective gloves, protective clothing, eye protection, face protection.  
P301+P310 - IF SWALLOWED: Immediately call a doctor.  
P311 - Call a doctor.

## 2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Name : o-ANISIDINE FOR SYNTHESIS  
CAS-No. : 90-04-0  
EC-No. : 201-963-1  
EC Index-No. : 612-035-00-4

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

# **o-ANISIDINE FOR SYNTHESIS**

## **Safety Data Sheet**

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### **3.2. Mixtures**

Not applicable

## **SECTION 4: First aid measures**

### **4.1. Description of first aid measures**

First-aid measures after inhalation	: Assure fresh air breathing. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
First-aid measures after skin contact	: Wash with plenty of water/.... Get medical advice/attention. 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. Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Obtain emergency medical attention.

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

Symptoms/effects	: Suspected of causing genetic defects. May cause cancer.
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 medical 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.
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## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

#### **6.1.1. For non-emergency personnel**

Emergency procedures	: Evacuate unnecessary personnel.
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#### **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 containment and cleaning up**

Methods for cleaning up	: Collect spillage. On land, sweep or shovel into suitable containers.
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### **6.4. Reference to other sections**

No additional information available

# **o-ANISIDINE FOR SYNTHESIS**

## **Safety Data Sheet**

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### **SECTION 7: Handling and storage**

#### **7.1. Precautions for safe handling**

- Precautions for safe handling : Obtain special instructions before use. Use personal protective equipment as required. Avoid contact with skin and eyes. Do not breathe vapours.
- 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, 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/personal protection**

#### **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 properties**

#### **9.1. Information on basic physical and chemical properties**

- Physical state : Liquid
- Colour : yellowish - reddish.
- Odour : amine like.
- Odour threshold : No data available
- pH : No data available
- Relative evaporation rate (butylacetate=1) : No data available
- Melting point : 3 - 6 °C
- Freezing point : No data available
- Boiling point : 225 °C
- Flash point : 107 °C
- Auto-ignition temperature : 415 °C
- Decomposition temperature : < 300 °C
- Flammability (solid, gas) : Flammable

# **o-ANISIDINE FOR SYNTHESIS**

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Vapour pressure	: 0.975 mm Hg at 20 °C
Relative vapour density at 20 °C	: 4.25
Relative density	: No data available
Density	: 1.092 g/cm <sup>3</sup>
Solubility	: Water: Practically 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**

Direct sunlight. Air contact. Heat. Sparks.

### **10.5. Incompatible materials**

No additional information available

### **10.6. Hazardous decomposition products**

No additional information available

## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

Acute toxicity : Dermal: Toxic in contact with skin. Inhalation: Toxic if inhaled. Oral: Toxic if swallowed.

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Suspected of causing genetic defects.

Carcinogenicity : May cause cancer.

# **o-ANISIDINE FOR SYNTHESIS**

## **Safety Data Sheet**

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Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

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**

No additional information available

#### **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 assessment**

##### **o-ANISIDINE FOR SYNTHESIS (90-04-0)**

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

#### **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 / IATA / ADN

#### **14.1. UN number**

UN-No. (ADR) : 2431

UN-No. (IMDG) : 2431

# o-ANISIDINE FOR SYNTHESIS

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

UN-No. (IATA) : 2431  
UN-No. (ADN) : 2431  
UN-No. (RID) : 2431

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : ANISIDINES  
Proper Shipping Name (IMDG) : ANISIDINES  
Proper Shipping Name (IATA) : Anisidines  
Proper Shipping Name (ADN) : ANISIDINES  
Proper Shipping Name (RID) : ANISIDINES  
Transport document description (ADR) : UN 2431 ANISIDINES, 6.1, III, (E)  
Transport document description (IMDG) : UN 2431 ANISIDINES, 6.1, III  
Transport document description (IATA) : UN 2431 Anisidines, 6.1, III  
Transport document description (ADN) : UN 2431 ANISIDINES, 6.1, III  
Transport document description (RID) : UN 2431 ANISIDINES, 6.1, III

### 14.3. Transport hazard class(es)

#### ADR

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



#### IMDG

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



#### IATA

Transport hazard class(es) (IATA) : 6.1  
Hazard labels (IATA) : 6.1



#### ADN

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



# o-ANISIDINE FOR SYNTHESIS

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### RID

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



### 14.4. Packing group

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

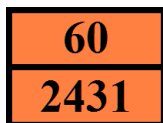
### 14.5. Environmental hazards

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) : T1  
Limited quantities (ADR) : 5I  
Excepted quantities (ADR) : E1  
Packing instructions (ADR) : P001, IBC03, LP01, R001  
Mixed packing provisions (ADR) : MP19  
Portable tank and bulk container instructions (ADR) : T4  
Portable tank and bulk container special provisions (ADR) : TP1  
Tank code (ADR) : L4BH  
Tank special provisions (ADR) : TU15, TE19  
Vehicle for tank carriage : AT  
Transport category (ADR) : 2  
Special provisions for carriage - Packages (ADR) : V12  
Special provisions for carriage - Loading, unloading and handling (ADR) : CV13, CV28  
Special provisions for carriage - Operation (ADR) : S9  
Hazard identification number (Kemler No.) : 60  
Orange plates :



Tunnel restriction code (ADR) : E  
EAC code : 2Z

#### - Transport by sea

Packing instructions (IMDG) : P001, LP01



# **o-ANISIDINE FOR SYNTHESIS**

## **Safety Data Sheet**

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IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-A
Stowage category (IMDG)	: A
Properties and observations (IMDG)	: Reddish or yellowish oily liquid. Immiscible with water. Toxic if swallowed, by skin contact or by inhalation.
MFAG-No	: 153

### **- Air transport**

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y642
PCA limited quantity max net quantity (IATA)	: 2L
PCA packing instructions (IATA)	: 655
PCA max net quantity (IATA)	: 60L
CAO packing instructions (IATA)	: 663
CAO max net quantity (IATA)	: 220L
ERG code (IATA)	: 6L

### **- Inland waterway transport**

Classification code (ADN)	: T1
Special provisions (ADN)	: 802
Limited quantities (ADN)	: 5 L
Excepted quantities (ADN)	: E1
Equipment required (ADN)	: PP, EP, TOX, A
Ventilation (ADN)	: VE02
Number of blue cones/lights (ADN)	: 0

### **- Rail transport**

Classification code (RID)	: T1
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T4
Portable tank and bulk container special provisions (RID)	: TP1
Tank codes for RID tanks (RID)	: L4BH
Special provisions for RID tanks (RID)	: TU15
Transport category (RID)	: 2
Special provisions for carriage – Packages (RID)	: W12
Special provisions for carriage - Loading, unloading and handling (RID)	: CW13, CW28, CW31
Colis express (express parcels) (RID)	: CE8
Hazard identification number (RID)	: 60

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

Not applicable

# o-ANISIDINE FOR SYNTHESIS

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### 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

2-Methoxyaniline; o-Anisidine is on the REACH Candidate List

o-ANISIDINE FOR SYNTHESIS is not on the REACH Annex XIV List

##### 15.1.2. National regulations

###### 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 : o-ANISIDINE FOR SYNTHESIS is 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 additional 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

# **o-ANISIDINE FOR SYNTHESIS**

## **Safety Data Sheet**

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Carc. 1B	Carcinogenicity, Category 1B
Muta. 2	Germ cell mutagenicity, Category 2
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed
R45	May cause cancer
R68	Possible risk of irreversible effects
T	Toxic

*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*