

According to Regulation (EC) No 1907/2006

# alpha,alpha-Dichloro-m-xylene

Version number: 1  
Issued: 2023-10-06



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

### 1.1. Product identifier

**Trade name**

alpha,alpha-Dichloro-m-xylene

**CAS number**

626-16-4

**EC number**

210-932-1

**Synonyms**

1,3-bis(chloromethyl)benzene

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

**Relevant identified uses**

Research and development.

**Not suitable for use in**

Not suitable for human consumption or veterinary purposes.

### 1.3. Details of the supplier of the safety data sheet

**Supplier**

Molekula Group

Street address

Molekula Ltd, Lingfield Way, Darlington,  
DL1 4XX Darlington  
United Kingdom

Telephone

+44 (0) 3302 000 333

Email

info@molekula.com

Web site

www.molekula.com

**Contact person**

Kevin Banks

**Email address**

+44 (0) 7769276927

### 1.4. Emergency telephone number

**Poison center/Additional emergency number**

0344 892 0111 - National Poisons Information Service (Newcastle Centre)

According to Regulation (EC) No 1907/2006

# alpha,alpha-Dichloro-m-xylene

Version number: 1  
Issued: 2023-10-06



## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

#### Classification

Skin irritation, hazard category 2

Eye irritation, hazard category 2

Acute toxicity, oral, hazard category 4

Acute toxicity, inhalation, hazard category 1

Specific Target Organ Toxicity — Single exposure, hazard category 3

#### Hazard statements

H302, H315, H319, H330, H335

### 2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

#### Hazard pictograms



#### Signal word

Danger

#### Hazard statements

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H335 May cause respiratory irritation.

According to Regulation (EC) No 1907/2006

# alpha,alpha-Dichloro-m-xylene

Version number: 1  
Issued: 2023-10-06



## Precautionary statements

P202 Do not handle until all safety precautions have been read and understood.  
P233 Keep container tightly closed.  
P260 Do not breathe dust/fumes/gas/mist/vapours/spray.  
P262 Do not get in eyes, on skin, or on clothing.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P284 wear respiratory protection.  
P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  
P302 + P352 IF ON SKIN: Wash with plenty of 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.  
P312 Call a POISON CENTER/doctor if you feel unwell.  
P332 + P313 If skin irritation occurs: Get medical advice/attention.  
P337 + P313 If eye irritation persists: Get medical advice/attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
P403 Store in a well-ventilated place.  
P405 Store locked up.  
P501 Dispose of contents/container to local regulations.

## 2.3. Other hazards

No data available

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-phrase M factor acute M factor chronic	Note
alpha,alpha-Dichloro-m-xylene	626-16-4 210-932-1 - -	100%	Acute Tox. 4 - oral, Skin Irrit. 2, Eye Irrit. 2, Acute Tox. 2 - inhalation, STOT SE 3	H302, H315, H319, H330, H335 - -	-

## Molecular weight

175.06

## Substance additional information

For the complete text of H- / EUH-statements mentioned in this section, see section 16.

According to Regulation (EC) No 1907/2006

# alpha,alpha-Dichloro-m-xylene

Version number: 1  
Issued: 2023-10-06



## SECTION 4: First aid measures

### 4.1. Description of first aid measures

IF exposed or concerned: Get medical advice/attention. First aiders/ medical personnel need to protect themselves. Show this Safety Data Sheet (SDS) to medical personnel.

#### Inhalation

Toxic if inhaled. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. If breathing stops, provide artificial respiration. For breathing difficulties oxygen may be necessary.

#### Skin contact

In case of skin contact: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Immediately call a POISON CENTER/doctor. The casualty should be transferred to hospital for further treatment.

#### Eye contact

Remove contact lenses if present. Rinse eyes with water. Continue to rinse for at least 15 minutes and seek medical attention.

#### Ingestion

IF SWALLOWED: give water to drink (two glasses at most). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only if the persons are fully conscious and awake).

#### Information for doctors

No data available.

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

The severity of the symptoms described will vary dependant of the concentration and the length of exposure. See section 11 for more detailed information on health effects and symptoms.

#### Inhalation

Single exposure may cause the following adverse effects: Difficulty in breathing. Unconsciousness, possibly death.

#### Skin contact

Single exposure may cause the following adverse effects: Unconsciousness, possibly death.

#### Eye contact

Single exposure may cause the following adverse effects: Severe irritation. Unconsciousness, possibly death.

#### Ingestion

Single exposure may cause the following adverse effects: Severe abdominal pain. May cause severe internal injury. Unconsciousness, possibly death.

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

Treat symptomatically. No special treatment requirement.

According to Regulation (EC) No 1907/2006

# alpha,alpha-Dichloro-m-xylene

Version number: 1  
Issued: 2023-10-06



## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.

#### Unsuitable extinguishing media

No specific fire fighting procedure given.

### 5.2. Special hazards arising from the substance or mixture

Specific hazards: Toxic.

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO).

Hydrogen Chloride gas

Nitrous gases (NO<sub>x</sub>).

Hydrogen bromide gas

Combustible.

Vapours are heavier than air and may spread near ground to sources of ignition.

Forms explosive mixtures with air on intense heating.

Development of hazardous combustion gases or vapours possible in the event of fire.

### 5.3. Advice for firefighters

#### Special protective equipment for fire-fighters

Evacuate area. Avoid breathing gas, fume, vapours or spray. Cool containers exposed to heat with water spray and remove container, if no risk is involved.

## SECTION 6: Accidental release measures

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

Avoid breathing dust/fume/gas/mist/vapours/spray. Provide adequate ventilation. Avoid contact with skin and eyes. Avoid dust formation. For personal protection, see section 8.

### 6.2. Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

### 6.3. Methods and material for containment and cleaning up

Collect spillage with shovel, broom or the like and reuse, if possible. Dispose of large amounts of spillage/waste according to agreement with local authorities.

### 6.4. Reference to other sections

For personal protection, see section 8. For waste disposal, see section 13.

According to Regulation (EC) No 1907/2006

# alpha,alpha-Dichloro-m-xylene

Version number: 1  
Issued: 2023-10-06



## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Preventive handling precautions

For precautions see section 2.2. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Work under hood This product is toxic. Keep containers tightly closed. Immediate first aid is necessary. Wear protective clothing, gloves, eye and face protection. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid ingestion and inhalation. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Do not reuse empty containers.

#### General hygiene

Observe good chemical hygiene practices. Remove contaminated clothing immediately and wash skin with soap and water. Remove contaminated clothing and launder thoroughly before re-use. Wash skin thoroughly after handling.

### 7.2. Conditions for safe storage, including any incompatibilities

Store in a dry place. Store in a closed container.

Recommended storage temperature: 2 to 8°C (35.6 to 46.4°F )

Storage class : Toxic storage.

Moisture Sensitive.

### 7.3. Specific end use(s)

No specific usage precautions noted.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No data available

### 8.2. Exposure controls

#### Personal Protective Equipment Symbols



#### Eye / face protection

Wear eye protection.

#### Hand protection

Wear protective gloves. Recommended gloves: Viton rubber (fluor rubber).

Glove Thickness: 0.7mm

Breakthrough time: 8 hours

Always inspect gloves before use. If signs of wear and tear are noticed then the gloves should be replaced.

No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals. Wash contaminated skin thoroughly after handling.

According to Regulation (EC) No 1907/2006

# alpha,alpha-Dichloro-m-xylene

Version number: 1  
Issued: 2023-10-06



## **Other skin protection**

Wash skin thoroughly after handling.

## **Respiratory protection**

Provide adequate ventilation. If ventilation is insufficient, suitable respiratory protection must be provided.

## **Environmental exposure controls**

Avoid discharge into drains.

## SECTION 9: Physical and chemical properties

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

#### **Physical state**

Solid

#### **Colour**

Colourless.

#### **Odour**

Odourless.

#### **Melting point / freezing point**

33 - 37 °C

#### **Boiling point or initial boiling point and boiling range**

250 - 255 °C

#### **Flammability**

No data available

#### **Lower and upper explosion limit**

No data available

#### **Flash point**

113 °C

#### **Method**

CC (Closed cup).

#### **Auto-ignition temperature**

No data available

#### **Decomposition temperature**

No data available

#### **pH**

No data available

#### **Kinematic viscosity**

No data available

According to Regulation (EC) No 1907/2006

# alpha,alpha-Dichloro-m-xylene

Version number: 1  
Issued: 2023-10-06



## Solubility

No data available

## Partition coefficient n-octanol/water

No data available

## Vapour pressure

No data available

## Density and/or relative density

1.202 g/cm<sup>3</sup>

## Relative vapour density

No data available

## Particle characteristics

No data available

## 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Forms explosive mixtures with air on intense heating.  
15 (approx) Kelvin below the flash point is to be rated as critical.

### 10.2. Chemical stability

Stable under normal temperature conditions. Stable under the prescribed storage conditions.

### 10.3. Possibility of hazardous reactions

There are no known conditions that are likely to result in a hazardous situation.

### 10.4. Conditions to avoid

Moisture. Heating.

### 10.5. Incompatible materials

Alcohols  
Bases.  
Amines.  
oxidising agents  
Metals.

### 10.6. Hazardous decomposition products

See section 5.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

According to Regulation (EC) No 1907/2006

# alpha,alpha-Dichloro-m-xylene

Version number: 1  
Issued: 2023-10-06



Product / Substance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Test animals
alpha,alpha-Dichloro-m-xylene 626-16-4 / 210-932-1	LD50	1,600 mg/kg	Oral	Rat
alpha,alpha-Dichloro-m-xylene 626-16-4 / 210-932-1	ATE = Acute Toxicity Estimate.	0.25 mg/l	Inhalation.	-

## STOT-single exposure

Product / Substance name CAS / EC no.	Exposure route	Result
alpha,alpha-Dichloro-m-xylene 626-16-4 / 210-932-1	Inhalation.	May cause respiratory irritation.

## Aspiration hazard

Based on available data, the classification criteria are not met.

## 11.2. Information on other hazards

No data available

## SECTION 12: Ecological information

### 12.1. Toxicity

No data available

### 12.2. Persistence and degradability

No data available

### 12.3. Bioaccumulative potential

No data available

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

No data available

### 12.6. Endocrine disrupting properties

No data available

### 12.7. Other adverse effects

No data available

According to Regulation (EC) No 1907/2006

# alpha,alpha-Dichloro-m-xylene

Version number: 1  
Issued: 2023-10-06



## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal considerations

Dispose of contents/container in accordance with local/regional/national/international regulations.

## SECTION 14: Transport information

### 14.1. UN number

2811

### 14.2. UN proper shipping name

#### ADR / RID / ADN proper shipping name

TOXIC SOLID, ORGANIC, N.O.S. (alpha,alpha-Dichloro-m-xylene)

#### IMDG proper shipping name

TOXIC SOLID, ORGANIC, N.O.S. (alpha,alpha-Dichloro-m-xylene)

#### IATA proper shipping name

Toxic solid, organic, n.o.s. (alpha,alpha-Dichloro-m-xylene)

### 14.3. Transport hazard class(es)

#### Label

ADR/RID/ADN



6.1

IMDG



6.1

IATA



6.1

#### ADR / RID Class

6.1

#### ADR / RID Classification code

T2

According to Regulation (EC) No 1907/2006

# alpha,alpha-Dichloro-m-xylene

Version number: 1  
Issued: 2023-10-06



**ADR / RID hazard identification number**

60

**IMDG Class**

6.1

**IATA Class**

6.1

**ADN Class**

6.1

**ADN Class Code**

T2

**14.4. Packing group**

ADR / RID / ADN: II

IMDG: II

IATA: II

**14.5. Environmental hazards**

**IMDG EmS**

F-A, S-A

**14.6. Special precautions for user**

Tunnel restriction code: D/E

Transport category: 2

**14.7. Maritime transport in bulk according to IMO instruments**

IBC Instruction: IBC08

## SECTION 15: Regulatory information

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

**EU regulations**

This SDS is not mandated under REACH Regulation (EC) No 1907/2006 and is provided for information only.

**National regulations**

Directive: 2012/18/EU : ACUTE TOXIC

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out.

According to Regulation (EC) No 1907/2006

# alpha,alpha-Dichloro-m-xylene

Version number: 1  
Issued: 2023-10-06



## SECTION 16: Other information

### Phrase meaning

Skin Irrit. 2 - Skin irritation, hazard category 2

Eye Irrit. 2 - Eye irritation, hazard category 2

Acute Tox. 4 - oral - Acute toxicity, oral, hazard category 4

Acute Tox. 1 - inhalation - Acute toxicity, inhalation, hazard category 1

STOT SE 3 - Specific Target Organ Toxicity — Single exposure, hazard category 3

Acute Tox. 2 - inhalation - Acute toxicity, inhalation, hazard category 2

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H335 May cause respiratory irritation.