

# SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

Revision number: 1 Revision date: 10/03/2018

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

1.1 Product identifiers

**Product name:** m-Toluidine **Product code:** T0298

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

Identified uses: Reagents.

1.3 Details of the supplier of the safety data sheet

Supplier:

TCI EUROPE N.V. Boerenveldseweg 6 Haven 1063 B-2070 Zwijndrecht

Telephone: +32(0)3 735 07 00 E-mail: sales-eu@tcichemicals.com

**1.4 Emergency telephone number:** +32(0)70 245 245

#### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Acute toxicity (Oral)Category 3Acute toxicity (Dermal)Category 3Acute toxicity (Inhalation)Category 3Specific target organ toxicity - Repeated exposure [Category 2]OrgansAcute aquatic hazardCategory 1

#### 2.2 Label elements

Pictograms or hazard symbols







Signal word Danger

Hazard statements H301+H311+H331-Toxic if swallowed, in contact with skin or if inhaled.

H373-May cause damage to organs through prolonged or repeated exposure.

H400-Very toxic to aquatic life.

**Precautionary statements** P260-Do not breathe mist, vapours or spray.

P280-Wear protective gloves, protective clothing.

P301+P310+P330-IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. P302+P352+P312+P361+P364-IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor if you feel unwell. Take off immediately all contaminated clothing and wash it before

reuse.

P304+P340+P311-IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a

POISON CENTER or doctor.

P314-Get medical advice or attention if you feel unwell.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable vPvB: Not applicable

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## SECTION 3: Composition/information on ingredients

3.1 Substances

 Components:
 m-Toluidine

 Percent:
 >98.0%(GC)(T)

 CAS RN:
 108-44-1

 EC-No:
 203-583-1

 Chemical Formula:
 C7H₃N

## SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON

CENTER or doctor/physician.

Skin contact: Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water.

Call a POISON CENTER or doctor/physician.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Call a POISON CENTER or doctor/physician.

Ingestion: Call a POISON CENTER or doctor/physician. Rinse mouth.

Protection of first-aiders: A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

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

No data available

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

No data available

## SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Dry chemical, foam, carbon dioxide. Unsuitable extinguishing media: Water (It may scatter and spread fire.)

5.2 Special hazards arising from the

substance or mixture

Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.

Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx)

5.3 Advice for firefighters

Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so. When extinguishing fire, be sure to wear personal protective equipment

## SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off,

etc

6.2 Environmental precautions

Be careful not to let it flow into rivers, etc., since adverse effects on the environment are concerned

6.3 Methods and materials for containment and cleaning up

Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust). In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations. Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use spark-proof tools and

explosion-proof equipment.

6.4 Reference to other sections

For disposal see section 13.

#### SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent generation of vapour or mist. Keep away from flames and hot surfaces. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generated. Avoid all contact!

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store in a refrigerator. Store under inert gas. Store locked up. Store away from incompatible materials such as oxidizing agents.

Heat-sensitive, Light-sensitive, Air-sensitive

7.3 Specific end use(s) No further relevant information available.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

ACGIH TLV(TWA): 2 ppm (skin)

8.2 Exposure controls Install a closed system or local exhaust. Also install safety shower and eye bath.

Respiratory protection: Half or full facepiece respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc.

Use respirators approved under appropriate government standards and follow local and national

regulations.

Hand protection: Impervious gloves.

**Eye protection:** Safety goggles. A face-shield, if the situation requires.

Skin and body protection: Impervious protective clothing. Protective boots, if the situation requires.

#### SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state (20°C): Liquid Form: Clear

Colorless - Pale yellow

Odour: Aromatic

pH: No data availableMelting point/freezing point: No data available

**Boiling point/range**: 203°C **Flash point**: 86°C

Evaporation rate(Butyl Acetate=1): No data available Flammability(solid, gas): No data available

Flammability or explosive limits:

**Lower:** 1.1% **Upper:** 6.6%

Vapour pressure: 0.13kPa/41°C

Vapour density: 3.72 Relative density: 0.99

Solubility(ies):

[Water] Slightly soluble (1.5g/L, 20°C)

[Other solvents]

Soluble: Ether, Alcohols, Many organic solvents

Partition coefficient: 1.53

n-octanol/water:

Autoignition temperature: 482°C

Decomposition temperature:No data availableDynamic Viscosity:No data availableKinematic viscosity:No data available

9.2 Other safety information No data available

## SECTION 10: Stability and reactivity

**10.1 Reactivity** No data available

**10.2 Chemical stability** Stable under proper conditions.

**10.3 Possibility of hazardous reactions** No special reactivity has been reported.

**10.4 Conditions to avoid** Open flame

10.5 Incompatible materials Oxidizing agents, Acids, Nitric acid

10.6 Hazardous decomposition products Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx)

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## SECTION 11: Toxicological information

## 11.1 Information on toxicological effects

Acute Toxicity: ipr-mus LD50:116 mg/kg

orl-mus LD50:740 mg/kg orl-rat LD50:450 mg/kg skn-rbt LD50:3250 mg/kg skn-rbt 500 mg/24H MLD eye-rbt 20 mg/24H MOD

Respiratory or skin sensitization: Germ cell mutagenicity:

Serious eye damage/irritation:

Skin corrosion/irritation:

No data available No data available

Carcinogenicity:

IARC = No data available
NTP = No data available
Reproductive toxicity: No data available
STOT-single exposure: No data available
STOT-repeated exposure: No data available
Aspiration hazard: No data available
RTECS Number: XU2800000

#### SECTION 12: Ecological information

#### 12.1 Toxicity

Fish: No data available
Crustacea: No data available
Algae: No data available

12.2 Persistence and degradability 0% (by BOD), 3% (by HPLC), 2% (by TOC)

12.3 Bioaccumulative potential 2

12.4 Mobility in soil

Log Pow: 1.53 Soil adsorption (Koc): 44 Henry's Law (PaM³/mol): 0.3

#### 12.5 Results of PBT and vPvB assessment

PBT: Not applicable vPvB: Not applicable

12.6 Other adverse effects No data available

# SECTION 13: Disposal considerations

## 13.1 Waste treatment methods

Recycle to process, if possible. Consult your local regional authorities. Observe all federal, state and local regulations when disposing of the substance.

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SECTION 14: Transport information

14.1 UN number 1708

14.2 UN proper shipping name

ADR/RID Toluidines, liquid IMDG/IMO Toluidines, liquid ICAO/IATA Toluidines, liquid

14.3 Transport hazard class(es)

ADR/RID 6.1: Toxic substance IMDG/IMO 6.1: Toxic substance 6.1: Toxic substance ICAO/IATA

14.4 Packaging group

ADR/RID Ш IMDG/IMO ш ICAO/IATA Ш

14.5 Environmental hazards

Marine pollutant

14.6 Special precautions for user No data available

#### SECTION 15: Regulatory information

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

Water Hazard Classes (WGK): Class 2 - Hazard to waters Not listed

Substance of Very High Concern (SVHC) according to the

REACH Regulations (EC) No.1907/2006

A chemical safety assessment has not been carried out.

SECTION 16: Other information

15.2 Chemical safety assessment

Prepared by: TCI EUROPE N.V. Issue date: 10/03/2018

This SDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.

**End of Safety Data Sheet** 

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