

# **GPS Safety Summary N-ETHYL ORTHO TOLUIDINE**

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# 1. General Statement

N-ETHYL ORTHO TOLUIDINE is a yellowish liquid with amine-like odour. It is slightly soluble in water.

## 2. Chemical identity

Name : N-ETHYL ORTHO TOLUIDINE

CAS number(s) : 94-68-8 EC number : 202-354-3 Molecular formula : C9H13N

Structure :

## 3. Uses and Benefits

N-Ethyl-o-toluidine (2-(Ethylamino)toluene) is a stain used for proteomics research.

# 4. Physical / Chemical properties

Property	Value
Physical state :	Liquid
Colour :	Yellow
Odour :	amine-like
рН:	No data available
Melting point	Not applicable
Boiling point :	216 °C
Flash point :	88 °C
Density:	0.94 g/cm³

Solubility Water:	Very slightly soluble.

#### 5. Health Effects

Effect Assessment	Result
Acute toxicity (Oral / inhalation / dermal )	Toxic if swallowed,in contact with skin & if inhaled.
Irritation / corrosion Skin / eye/ respiratory tract	NA
Respiratory or skin sensitisation	NA
Toxicity after repeated exposure Oral / inhalation / dermal	Causes damage to organs.
Genotoxicity / Mutagenicity	NA
Carcinogenicity	May cause cancer.
Toxicity for reproduction	NA

## 6. Environmental Effects

Effect Assessment	Result
Aquatic toxicity	Yes
Fate and behavior	Result
Persistence and degradability	No additional information available
Bioaccumulative potential	log P (octanol-water): 2.660 (estimated result)

#### 7. Exposure

#### **Human health**

The substance May cause cancer and cause damage to organs.

The most likely route of human exposure (workers) is through skin. In industrial settings, ingestion is not an anticipated route of exposure. Workers may be exposed during (un)loading, mixing, sampling, analysis or maintenance operations and particularly in case of batch processes. The exposure must be kept as minimum as possible by the use of appropriate risk management measures as suitable collective and personal protective equipment, good industrial hygiene practices and risk communication through appropriate training of workers. Careless handling or accidental spillage of the chemical could result in exposure to potentially hazardous levels of chemicals the substance is handled in closed systems, and it is

usual for operators to wear impervious suits and self-contained breathing apparatus for operations involving the transfer of dimethyl sulfate, where there is the possibility of greater exposure.

Industrial workers should ensure that they follow the advice found in the extended safety data sheet (SDS).

#### **Environment**

Care should be taken to avoid releases of these products to sewage, drainage systems and water bodies. Spillage shall be quickly collected in the event of an accidental release. More information about release measures and accidental release measures are available in the extended safety data sheet.

## **8. Risk Management Recommendations**

#### **Human health measures**

Organizational	A basic standard of occupational hygiene is recommended. Ensure operatives are well informed of the hazards and trained to minimise exposures. Ensure regular inspection and maintenance of equipment and machines. Handle and store according to the indications of the Safety Data Sheet.	
Protection	Eye protection:	Safety glasses
	Skin and body protection:	Wear suitable protective clothing (Avoid inhalation or skin contact)
	Respiratory protection:	High concentration or prolonged activity: self contained breathing apparatus. In the case of vapor formation: use a respirator with an approved filter
Engineering controls	Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure good ventilation of the work station.	
Environment protective measures		
Product must not be released into water without pre-treatment.		

#### 9. First-aid measures

**First-aid measures after inhalation**: Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical advice. Get medical advice/attention.

**First-aid measures after skin contact**: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Be careful, the product may remain trapped under clothing, footwear or a wrist-watch. Take off contaminated clothing. Get medical advice/attention.

**First-aid measures after eye contact**: Rinse eyes with water as a precaution. Remove contact lenses, if present and easy to do.Continue rinsing. Get medical advice/attention.

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**First-aid measures after ingestion**: Call a poison center or a doctor if you feel unwell. If swallowed, seek medical advice immediately and show this container or label.

#### 10. Fire-fighting measures

#### Extinguishing media

Suitable extinguishing media :Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : NA

Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : On burning: release of toxic and corrosive gases/vapours (nitrous vapours, carbon monoxide - carbon dioxide).

#### Advice for firefighters

Precautionary measures fire: Eliminate all ignition sources if safe to do so. Keep the container closed when not in use. Keep the container tightly closed and away from heat, sparks and flame.

Firefighting instructions: Fight fire from safe distance and protected location. Do not enter a fire area without proper protective equipment, including respiratory protection.

#### 11. Accidental release measures

**Protective equipment**: Protective clothing. Wear recommended personal protective equipment.

**Environmental precautions:** Avoid release to the environment.

For containment: Take up liquid spill into absorbent material.

#### 12. Disposal consideration

**Regional legislation (waste)**: Disposal must be done according to official regulations.

**Waste treatment methods**: Dispose of contents/container in accordance with licensed collector's sorting instructions.

**Sewage disposal recommendations**: Do not discharge into drains or the environment. Dispose of at authorized waste collection point. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals

## 13. Handling and storage

**Precautions for safe handling**: Do not handle until all safety precautions have been read and understood. Avoid contact with skin, eyes and clothing. Eliminate all ignition sources if safe to do so. Handle and open the container with care. Handle carefully. Wear personal protective equipment.

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**Hygiene measures**: Always wash hands after handling the product. Remove contaminated clothes. Wear personal protective equipment.Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

#### 14. Classification and Labeling

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)





Signal word (CLP) : Danger

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

H350 - May cause cancer. H370 - Causes damage to organs.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP) : P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

P264 - Wash hands, forearms and face thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P271 - Use only outdoors or in a well-ventilated area.

#### 15. Conclusion

N-ETHYL ORTHO TOLUIDINE substance is a yellowish liquid which may cause cancer and damage to organs. Care should be taken to avoid releases of these products to sewage, drainage systems and water bodies.

The exposure must be kept as minimum as possible by the use of appropriate risk management measures as suitable collective and personal protective equipment, good industrial hygiene practices and risk communication through appropriate training of workers.

## 16. Contact Information within company not mandatory

### Manufacturer

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This GPS safety summary is intended to give general information about the health, safety and environmental and not intended to provide in-depth details. To obtain the most accurate and current information, consult the appropriate Safety Data Sheet (SDS) prior to use of the material named herein.