

1itsuboshi Chemical Revision date: Jul. 20, 2020

Safety Data Sheet

1. Identification

Product name Ethyl-o-toluidine

Product code EoT

Manufacturer name Mitsuboshi Chemical Co., Ltd.

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2. Hazards identification

GHS classification

Physical hazards

Flammable liquid Category 4

Environmental hazards

Aquatic hazard short term Category 3
Aquatic hazard long term Category 3

GHS label elements

Pictograms and hazard No symbol

symbol

Signal word Warning

Hazard statements Flammable liquid

Toxic to aquatic life with long-lasting effects

Precautionary statement

Prevention Keep away from flames and hot surfaces. –No smoking.

Avoid release to the environment.

Wear protective gloves, eye protection, face protection.

First aid measures In case of fire: Use appropriate fire extinguisher to extinguish.

Collect spillage.

Storage Store in a well-ventilated place. Keep container tightly closed.

Keep cool.

Store locked up.

Disposal Dispose of contents / container by a special waste disposal

contractor who received permission from the local governor.

3. Composition/Information on

Ingredients

Substance/ Mixture Substance

Components N-Ethyl-2-methylaniline Synonyms N-Ethyl-o-toluidine

N-Ethyl-2-methylbenzeneamine

Concentration >98.5%

Chen	nical	formula
Onion	moai	IOIIIIIIII

HN	/	C9H13N

CAS	num	ber
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94-68-8

		measures

If inhaled Call a doctor, if you feel unwell. If on skin Wash with plenty of soap and water.

If skin irritation occurs, get medical advice/attention.

If in eyes Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

Call a doctor, if you feel unwell. Rinse mouth.

5. Fire-fighting measures

If swallowed

Extinguishing Media Foam fire extinguisher, Powder fire extinguisher, Carbon dioxide

fire extinguisher, Sand

Inappropriate fire extinguisher

Concentrated water jet Specific hazard

Irritative or toxic fume and gases are generated in a fire. The gas

that contains CO and NOx may be generated.

Specific fire extinguishing method Stop the supply of the conbustible material, and extiguish the fire

by appropriate fire extiguisher.

Cool the neighbouring tanks and architectures by water spray to

prevent the expansion of fire.

Fire extinguishing activities should be done on the windward side

of the fire.

Prohibit the entry of non-essential personnel to the area of fire.

Move the container away from the fire zone if it is not dangerous

Wear appropriate self-contained breathing apparatus and

to do so.

Protective equipment and

chemical resistant protective clothing that can protect eyes and precautions for fire fighters

skin.

6. Accidental release measures

Personal precautions, protective equipment emergency and procedures

Workers should wear appropriate protective equipment, and should avoid contact with eyes and skin, and inhalation of gas.

Prohibit the entry of non-essential personnel.

Environmental precautions Prevent leaked substances from entering surface and ground

water in order to avoid impact on the environment.

Containment and clean-up

methods and materials

Promptly remove all the ignition sources. (Prohibit smoking and

fireworks in the neighbouring area)

Collect spillage to metal- or glass-made container as possible. Move the residual liquid to the safe place by asborption to sand

or unreactive absorbent.

7. Handling and storage

Handling

Engineering control Carry out the measures described in Exposure

controls/personal protection" and wear protective equipment.

Precautions for safe handling Obtain special instructions before use.

Do not handle until all safety precautions have been read and

understood.

Keep away from heat/ sparks /open flames/ hot surfaces. No

smoking.

Avoid breathing dust/ fume/ gas/mist/ vapors/ spray.

Wash hands thoroughly after handling.

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

Use only outdoors or in a well- ventilated area.

Avoid release to the environment.

Wear protective gloves/ protective clothing/ eye protection/ face

protection.

Wear respiratory protection.

Wash contaminated clothing before reuse. Please refer to "10. Stability and reactivity".

Avoidance of contact

Storage condition

Storage

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Keep away from strong oxidizing reagents, food, and feed.

Ventilate along floor.

Store in a place that have no access to drain tube or sewer pipe.

Container and packaging

materials

Use a container specified in the Fire Service Law or United

Nations transportation regulations.

8. Exposure control/ Personal

protection

Control concentration No setting

Threshold limit value

Japan Society for Occupational

Health

No setting

ACGIH No setting

Facility controls In the place where the substance is stored and used, provide

facilities for eye-washing and a shower for washing the entire

body.

Install ventilation equipment.

Personnel protective equipment

Respiratory protection Wear appropriate protective respiratory equipment as possible.

Hand protection Wear appropriate protective gloves. Eye protection Wear appropriate eye protection.

Skin and body protection Wear appropriate protective clothing and face protection.

9. Physical and chemical

properties

Physical state, appearance Liquid (20°C, 1atm)

Color Pale yellow or pale brown

Odor Peculiar odor Melting point <-15 $^{\circ}$ C(GESTIS)

Boiling point 218° C(GESTIS)

Flammability Yes

Explosion limit

Upper limit 5.9 vol.% Lower limit 1.2 vol.%

Flash point 89°C(Closed cup, our company's data)

Auto-ignition temperature 445° C

Decomposition temp. No data pH No data

Kinematic viscosity No data

Solubility Very slightly soluble in water

Soluble in alcohol, ether, and aqueous solution of HCl.

Partition coefficient :octanol / 2.48(25°C)(GESTIS)

water

Evaporation rate (Butyl acetate = No data

1)

Vapor pressure 1 hPa(20°C)(GESTIS)

Density 0.94

Relative vapor density(air=1) 4.67(GESTIS)
Particle characteristics Not applicable

10. Stability and reactivity

Reactivity No data

Chemical stability Stable for normal use and storage.

Conditions to avoid Contact with open- flame, high temperature, incompatible

substances.

Incompatible substance Oxidizer, strong acid, especially nitric acid

Hazardous decomposition Heating causes combustion, harmful fume gas is produced.

products

11. Toxicological information

Acute toxicity

Oral LD50=2400mg/kg (Rat).

Dermal No data

Inhalation(vapor) Exposure of the saturated vapor (0.722mg/L) of this compound

to rats did not cause the death of them (IUCLID 2000). But that

is not sufficient data to evaluate.

Inhalation(mist) No data

Skin corrosion/irritation The test using rabbits indicated "not irritating" (IUCLID2000) .

Serious eye damage/eye irritation The test using rabbits indicated "not irritating" (IUCLID2000) .

Respiratory sensitization No data
Skin sensitization No data
Germ sell mutagenicity No data
Carcinogenicity No data
Reproduction toxicity No data
Specific target organ toxicity No data

(single exposure)

Specific target organ toxicity No data

(Repeated exposure)	
Aspiration hazard	No data
12.Ecological information	
Hazard to the aquatic	
Acute hazard	EC50 (Daphnia magna):25.6mg/L/8(48hr) (IUCLID2000) .
Chronic hazard	No data
Hazard to the ozone layer mobility	No data
13.Disposal consideration	
Residual waste	For disposal, follow relevant regulations and local authority standards.
	Dispose of contents / container by a special waste disposal contractor who received permission from the local governor. When consigning waste to a contractor, be sure to provide sufficient notice of hazards and toxicity.
Contaminated packaging	Containers should be cleaned and recycled, or appropriate disposal according to relevant laws and local government standards. When empty containers are discarded, contents should be
	completely removed.
14. Transport information	
International regulations	0774
UN number	2754
Proper shipping name	N-ETHYLTOLUIDINES
Class	6.1
Packing groupe	II
Marine pollutant	Not applicable
Domestic regulations	Regulations on transport in your region should be checked by your own responsibility.
15. Regulatory information	Regulatory information with regard to this substance in your country or in your region should be examined by your own responsibility.
16. Other information	
References	The original data are indicated in each item.

Disclaimer

The content of this SDS was prepared based on currently available materials, and the data and evaluations are not necessarily full and complete, therefore the content must be treated with caution. Moreover, the precautions shown here are for normal handling of the product. If you intend to use the product for special purposes, additional safety measures appropriate to the application and usage may be required.