otto chemie pvt ltd

An ISO 9001: 2015 & GMP Certified Company 101, Aarkay Ruby Industrial Estate (1B), Opp Shree Narayan Industrial Estate, Chinchpada, Vasai East, Waliv, Maharashtra 401208. Tel: + 91 98200 41841

Email: info@ottokemi.com Web: www.ottokemi.com

Creation Date :- 18-05-2025 Rivision Date :- 01-08-2030

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1. Product identifiers

Product name: Toluene, 99% Product Code: T 1856 CAS No: 108-88-3

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

Use: Industrial. For professional use only.

1.3. Details of the supplier of the safety data sheet

Company identification

OTTO CHEMIE PVT LTD

101, Aarkay Ruby Industrial Estate(1B), Opp Shree Narayan Industrial Estate,

Chinchpada, Vasai East, Waliv, Maharashtra 401208.

Email info@ottokemi.com

1.4. Emergency telephone number

Phone no.: + 91 22 2207 0099 (9:00am - 6:00 pm)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Flammable liquids, (Category 2) Skin irritation, (Category 2) Reproductive toxicity, (Category

Specific target organ toxicity single exposure, (Category 3),

Central nervous system

Specific target organ toxicity repeated exposure, (Category 2),

Central nervous system

Aspiration hazard, (Category 1)

Long-term (chronic) aquatic

hazard, (Category 3)

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram Signal Word

Hazard Statements

H225 H304 H315

H336 H361d H373

H412

Precautionary Statements

P202

P210

P273

P301 + P310 P303 + P361 + P353

P331

H225: Highly flammable liquid and vapor.

H315: Causes skin irritation.

H361d: Suspected of damaging the unborn

H336: May cause drowsiness or dizziness.

H373: May cause damage to organs through prolonged or repeated exposure if inhaled

H304: May be fatal if swallowed and enters airways.

H412: Harmful to aquatic life with long

lasting effects.

Danger

Highly flammable liquid and vapor.

May be fatal if swallowed and enters airways.

Causes skin irritation.

May cause drowsiness or dizziness. Suspected of damaging the unborn child.

May cause damage to organs (Central nervous system) through

prolonged or repeated exposure if inhaled. Harmful to aquatic life with long lasting effects.

Do not handle until all safety precautions have been read and

understood.

Keep away from heat, hot surfaces, sparks, open flames and

other ignition sources. No smoking. Avoid release to the environment.

IF SWALLOWED: Immediately call a POISON CENTER/ doctor. IF ON SKIN (or hair): Take off immediately all contaminated

clothing. Rinse skin with water.

Do NOT induce vomiting.

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none

Danger

understood.

none

Do NOT induce vomiting.

May be fatal if swallowed and enters airways.

Harmful to aquatic life with long lasting effects. Suspected of damaging the unborn child.

Do not handle until all safety precautions have been read and

IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

Supplemental Hazard

Statements

Reduced Labeling (<= 125 ml)

Pictogram

Signal Word

Hazard Statements

H304 H412 H361d

Precautionary Statements

P202

P301 + P310

P331 Supplemental Hazard

Statements

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at

levels of 0.1% or higher. Ecological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances

Formula **C7H8** Molecular weight : 92,14 g/mol CAS-No. : 108-88-3 EC-No. : 203-625-9

Component		Classification	Concentration
Toluene			
CAS-No.	108-88-3	Flam. Liq. 2; Skin Irrit. 2;	<= 100 %
EC-No.	203-625-9	Repr. 2; STOT SE 3; STOT	
		RE 2; Asp. Tox. 1; Aquatic	
		Chronic 3; H225, H315,	
		H361d, H336, H373,	
	3 //	H304, H412	
		Concentration limits:	
		20 %: STOT SE 3, H336;	

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

Show this material safety data sheet to the doctor in attendance.

If inhaled

After inhalation: fresh air. Call in physician.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with

water/ shower. Consult a physician.

In case of eye contact

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact

lenses.

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If swallowed

After swallowing: caution if victim vomits. Risk of aspiration! Keep airways free. Pulmonary

failure possible after aspiration of vomit. Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section

2.2) and/or in section 11

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

Foam Carbon dioxide (CO2) Dry powder

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Carbon oxides

Combustible.

Pay attention to flashback.

Vapors are heavier than air and may spread along floors.

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

Forms explosive mixtures with air at ambient temperatures.

5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by

keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information

Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition.

Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains. Risk of explosion.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions

(see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g.

Chemizorb®). Dispose of properly. Clean up affected area.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

Advice on protection against fire and explosion

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition.

Storage class

Storage class (TRGS 510): 3: Flammable liquids

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7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

Derived No Effect Level (DNEL)

Application Area Routes of

exposure

Health effect Value

Workers Inhalation Acute systemic effects 384 mg/m3

Workers Inhalation Acute local effects 384 mg/m3

Workers Skin contact Long-term systemic effects 384mg/kg BW/d

Workers Inhalation Long-term systemic effects 192 mg/m3

Workers Inhalation Long-term local effects 192 mg/m3

Consumers Inhalation Acute systemic effects 226 mg/m3

Consumers Inhalation Acute local effects 226 mg/m3

Consumers Skin contact Long-term systemic effects 226mg/kg BW/d

Consumers Inhalation Long-term systemic effects 56.5 mg/m3

Consumers Ingestion Long-term systemic effects 8,13mg/kg BW/d

Predicted No Effect Concentration (PNEC)

Compartment Value

Soil 2,89 mg/kg

Sea water 0,68 mg/l

Fresh water 0,68 mg/l

Sea sediment 16,39 mg/kg

Fresh water sediment 16,39 mg/kg

Sewage treatment plant 13,61 mg/l

Aquatic intermittent release 0,68 mg/l

8.2 Exposure controls

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell,

Internet: www.kcl.de).

Full contact

Material: Viton®

Minimum layer thickness: 0,7 mm

Break through time: 480 min

Material tested: Vitoject® (KCL 890 / Aldrich Z677698, Size M)

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell,

Internet: www.kcl.de). Splash contact

Material: Viton®

Minimum layer thickness: 0,7 mm

Break through time: 480 min

Body Protection

Flame retardant antistatic protective clothing.

Respiratory protection

Recommended Filter type: Filter A (acc. to DIN 3181) for vapours of organic

compounds

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer.

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These measures have to be properly documented.

Control of environmental exposure

Do not let product enter drains. Risk of explosion.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Physical state

b) Color

c) Odor

d) Melting

point/freezing point

e) Initial boiling point

and boiling range f) Flammability (solid,

gas)

g) Úpper/lower

flammability or

explosive limits h) Flash point

i) Autoignition

temperature

j) Decomposition

temperature

k) pH

I) Viscosity

m) Water solubility

n) Partition coefficient:

n-octanol/water

o) Vapor pressure

p) Density

Relative density

q) Relative vapor

density

r) Particle

characteristics

s) Explosive properties

t) Oxidizing properties

9.2 Other safety information

Conductivity

Surface tension

Relative vapor

density

liquid

No data available

benzene-like

Melting point/range: -93 °C

110 - 111 °C

No data available

Upper explosion limit: 7,1 %(V) Lower explosion limit: 1,2 %(V)

4.4 °C - closed cup

No data available

No data available

Not applicable

Viscosity, kinematic: No data available Viscosity, dynamic: 0,56 mPa.s at 25 °C

0,58 g/l at 25 °C - partly soluble

log Pow: 2,73 at 20 °C - Bioaccumulation is not expected.

30,88 hPa at 21,1 °C

0.865 g/mL at 25 °C

No data available

No data available

No data available

No data available

none

< 0.01 µS/cm

27,73 mN/m at 0,516g/l at 25 °C

3 18

SECTION 10: Stability and reactivity

10.1 Reactivity

Vapors may form explosive mixture with air.

Vapors may form explosive mixture with air.

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

The product is chemically stable under standard ambient conditions (room temperature).

10.3 Possibility of hazardous reactions

Risk of explosion with:

fuming sulfuric acid

Nitric acid

silver

perchlorates

nitrogen dioxide

nonmetallic halides

halogen-halogen compounds

uranium hexafluoride

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organic nitro compounds

Violent reactions possible with:

Strong acids

Strong oxidizing agents

sulfur

with

Heat.

10.4 Conditions to avoid

Warming.

Warming.

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Routes of Entry: Absorbed through skin. Dermal contact. Eye contact. Toxicity to Animals:

Oral LD50 Rat: 1500 mg/kg; Dermal LD50 Rabbit: 2000mg/kg

Inhalation LC50 Rat: > 50mg/L.

Chronic Effects on Humans: CARCINOGENIC EFFECTS: Classified None. by NTP, None. by OSHA, None. by NIOSH.

Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant), of inhalation (lung irritant).

Special Remarks on Toxicity

to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans: Not available.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish flow-through test LC50 - Oncorhynchus kisutch (coho salmon) - 5,5

ma/l - 96 h

Remarks: (ECHA) Toxicity to daphnia

and other aquatic

invertebrates

EC50 - Ceriodaphnia dubia (water flea) - 3,78 mg/l - 48 h

Toxicity to bacteria static test EC50 - Bacteria - 84 mg/l - 24 h

Remarks: (ECHA)

Toxicity to

fish(Chronic toxicity)

flow-through test NOEC - Oncorhynchus kisutch (coho salmon) - 1,39

mg/l - 40 d

Remarks: (ECHA)

Toxicity to daphnia

and other aquatic

invertebrates(Chronic

toxicity)

NOEC - Ceriodaphnia dubia (water flea) - 0,74 mg/l - 7 d

(US-EPA)

12.2 Persistence and degradability

Biodegradability aerobic - Exposure time 20 d

Result: 86 % - Readily biodegradable.

Remarks: (IUCLID)

12.3 Bioaccumulative potential

Bioaccumulation Leuciscus idus (Golden orfe) - 3 d

- 0,05 mg/l(Toluene)

Bioconcentration factor (BCF): 90

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

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This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment: The substance/mixture does not contain components

considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

IATA: 3

IATA: II

IATA: no

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

No data available

SECTION 14: Transport information

14.1 UN number ADR/RID: 1294

14.2 UN proper shipping name

ADR/RID: IMDG: IATA:

14.3 Transport hazard class(es)

ADR/RID: 3

14.4 Packaging group

ADR/RID: II

14.5 Environmental hazards

ADR/RID: no

14.6 Special precautions for user

Tunnel restriction code

Further information

IMDG Marine pollutant: no

: (D/E)

IMDG: 1294

TOLUENE

TOLUENE

Toluene

IMDG: 3

IMDG: II

: No data available

SECTION 15: Regulatory information

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

This material safety data sheet complies with the requirements of Regulation (EC) No.

1907/2006

Authorisations and/or restrictions on use REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

(Annex XVII)

Toluene

National legislation

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council

on the control of major-accident hazards

involving dangerous substances.

P5c FLĂMMĂBLE LIQUIDS

Other regulations

Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable.

Take note of Dir 94/33/EC on the protection of young people at work.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has been carried out for this substance.

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SECTION 16: Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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