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m-NITRO TOLUENE CAS NO 99-08-1

MATERIAL SAFETY DATA SHEET SDS/MSDS

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

- 1.1 Product identifiers
 - Product name : m-Nitro Toluene

CAS-No. : 99-08-1

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

Identified uses : Laboratory chemicals, Industrial & for professional use only.

1.3 Details of the supplier of the safety data sheet

Company	:	Central Drug House (P) Ltd 7/28 Vardaan House New Delhi -110002 INDIA
Telephone Email	:	+91 11 49404040 care@cdhfinechemical.com

1.4 Emergency telephone number

Emergency Phone # : +91 11 49404040 (9:00am - 6:00 pm) [Office hours]

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 Acute toxicity, Oral (Category 3), H301 Acute toxicity, Inhalation (Category 3), H331 Acute toxicity, Dermal (Category 3), H311 Specific target organ toxicity - repeated exposure (Category 2), H373

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

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram

Signal word



	-
Hazard statement(s)	
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.

Precautionary statement(s) P261 P280 P301 + P310 P311	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Wear protective gloves/ protective clothing. IF SWALLOWED: Immediately call a POISON CENTER/doctor. Call a POISON CENTER /doctor.
Supplemental Hazard Statements	none

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.

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms	:	1-Methyl-3-nitrobenzene
Formula Molecular weight CAS-No.		C ₇ H ₇ NO ₂ 137.14 g/mol 99-08-1
EC-No.	:	202-728-6

Hazardous ingredients according to Regulation (EC) No 1272/2008 Component Classification

3-Nitrotoluene

3-INITrotoluene			
CAS-No.	99-08-1	Acute Tox. 3; STOT RE 2;	<= 100 %
EC-No.	202-728-6	H301, H331, H311, H373	

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

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture Carbon oxides, Nitrogen oxides (NOx)

Concentration

5.3 Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information No data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

6.2 Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

- 6.3 Methods and materials for containment and cleaning up Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.
- 6.4 **Reference to other sections** For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Normal measures for preventive fire protection. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Storage class (TRGS 510): Combustible liquids, toxic

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

8.2 Exposure controls

Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection

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

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use (US) or type ABEK (EN 14387) respirator cartridges as a backup to enginee protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

9.1	information on basic physical and chemical properties			
	a)	Appearance	Form: clear, liquid Colour: yellow	
	b)	Odour	No data available	
	C)	Odour Threshold	No data available	
	d)	рН	No data available	
	e)	Melting point/freezing point	Melting point/range: 14 - 16 °C - lit.	
	f)	Initial boiling point and boiling range	230 - 231 °C - lit.	
	g)	Flash point	102 °C - closed cup	
	h)	Evaporation rate	No data available	
	i)	Flammability (solid, gas)	No data available	
	j)	Upper/lower flammability or explosive limits	No data available	
	k)	Vapour pressure	No data available	
	I)	Vapour density	4.73 - (Air = 1.0)	
	m)	Relative density	1.157 g/cm3 at 25 °C	
	n)	Water solubility	No data available	
	o)	Partition coefficient: n-	No data available	
		octanol/water		
	p)	Auto-ignition temperature	No data available	
	q)	Decomposition temperature	No data available	
	r)	Viscosity	No data available	
	s)	Explosive properties	No data available	
	t)	Oxidizing properties	No data available	
9.2	Other safety information Relative vapour density 4.73 - (Air = 1.0)			
SECT	ION	10: Stability and reactivi	ty	
10.1	Reactivity No data available			
10.2	Chemical stability Stable under recommended storage conditions.			
10.3	Possibility of hazardous reactions No data available			

10.4 Conditions to avoid No data available

10.5 Incompatible materials Oxidizing agents, Reducing agents, Strong bases

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx) Other decomposition products - No data available In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - 1,072 mg/kg(3-Nitrotoluene) LC50 Inhalation - Rat - 693 mg/m3(3-Nitrotoluene) Remarks: Brain and Coverings:Recordings from specific areas of CNS. Liver:Fatty liver degeneration. Blood:Methemoglobinemia-Carboxyhemoglobin.

Skin corrosion/irritation

No data available(3-Nitrotoluene)

Serious eye damage/eye irritation

No data available(3-Nitrotoluene)

Respiratory or skin sensitisation

No data available(3-Nitrotoluene)

Germ cell mutagenicity

Hamster(3-Nitrotoluene) ovary Sister chromatid exchange

Carcinogenicity

This product is or contains a component that is not classifiable as to its classification.(3-Nitrotoluene)

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (3-Nitrotoluene)

Reproductive toxicity

No data available(3-Nitrotoluene)

Specific target organ toxicity - single exposure

No data available(3-Nitrotoluene)

Specific target organ toxicity - repeated exposure May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard No data available(3-Nitrotoluene)

Additional Information

RTECS: XT2975000

Absorption into the body leads to the formation of methemoglobin which in delayed 2 to 4 hours or longer.(3-Nitrotoluene)

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish	LC50 - Pimephales promelas (fathead minnow) - 30 mg/l - 96 h(3-Nitrotoluene)
Toxicity to daphnia and aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 7.4 mg/l - 48 h(3-Nitrotoluene) other

Toxicity to algae Growth inhibition EC50 - Chlorella pyrenoidosa - 14 mg/l - 96 h(3-Nitrotoluene)

12.2 Persistence and degradability No data available

12.3 Bioaccumulative potential No data available

12.4 Mobility in soil

No data available(3-Nitrotoluene)

12.5 Results of PBT and vPvB assessment

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 Other adverse effects

Toxic to aquatic life.

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

14.1	UN number ADR/RID: 1664		IMDG: 1664	IATA: 1664
14.2	UN proper shipping name ADR/RID: NITROTOLUENES, LIQUID IMDG: NITROTOLUENES, LIQUID IATA: Nitrotoluenes, liquid			
14.3	Transport haza	<i>,</i> 1		
14.0	ADR/RID: 6.1		IMDG: 6.1	IATA: 6.1
14.4	Packaging gro	ıp		
	ADR/RID: II	-	IMDG: II	IATA: II
14.5	Environmental ADR/RID: no	hazards	IMDG Marine pollutant: no	IATA: no
44.0	Createl press			

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 This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

- H301 Toxic if swallowed.
- H311 Toxic in contact with skin.
- H331 Toxic if inhaled.
- H373 May cause damage to organs through prolonged or repeated exposure.

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.cdhfinechemical.com for additional terms and conditions of sale.