TOLUENE FOR PESTICIDE RESIDUE TRACE ANALYSIS MSDS





MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. **Product identifier** Product form : Substance : EC Index-No. : 601-021-00-3 EC-No. : 203-625-9 CAS-No. : 108-88-3 Product code : 0327B : C7H8 - (C(CH3)CHCHCHCHCH) Formula Chemical structure CH_3 Synonyms : Methylbenzene Relevant identified uses of the substance or mixture and uses advised against 1.2. 1.2.1. **Relevant identified uses** Use of the substance/mixture : Laboratory chemicals, Manufacture of substances

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Labogens Fine Chem Industries 1st Floor , Above Bank of India, Guru Vihar , Rahon Road, Ludhiana Pb. (141007) +91 9316777775, +91 7707855700 sales@labogens.com - www.Labogens.com

1.4. Emergency telephone number

Emergency number

: +91 7707855700 (9:00am - 6:00 pm)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flammable liquids,	H225
Category 2	11045
Skin corrosion/irritation, Category 2	H315
Reproductive toxicity,	H361d
Category 2	
Specific target organ	H336
toxicity — Single	

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exposure, Category 3, Narcosis Specific target organ H373 toxicity — Repeated exposure, Category 2 Aspiration hazard, H304 Category 1

Full text of hazard classes and H-statements : see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Repr.Cat.3; R63 F; R11 Xn; R65 Xn; R48/20 Xi; R38 R67 Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements	
Labelling according to Regulation (EC) Hazard pictograms (CLP)	No. 1272/2008 [CLP]
Signal word (CLP) Hazard statements (CLP)	 Danger H225 - Highly flammable liquid and vapour. H304 - May be fatal if swallowed and enters airways. H315 - Causes skin irritation. H336 - May cause drowsiness or dizziness. H361d - Suspected of damaging the unborn child. H373 - May cause damage to organs through prolonged or repeated exposure.
Precautionary statements (CLP)	 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260 - Do not breathe vapours, dust, fume, gas. P280 - Wear protective gloves, protective clothing, eye protection, face protection. P301+P310 - IF SWALLOWED: Immediately call a doctor. P331 - Do NOT induce vomiting.

2.3. Other hazards

No additional information available

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ccording to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
SECTION 3: Composition/information	on ingredients
3.1. Substances	
Name	: TOLUENE For pesticide residue trace analysis
CAS-No.	: 108-88-3
EC-No.	: 203-625-9
EC Index-No.	: 601-021-00-3
Full text of R- and H-statements: see sec	ction 16
3.2. Mixtures	
Not applicable	
SECTION 4: First aid measures	
4.1. Description of first aid measu	ires
First-aid measures after inhalation	 Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
First-aid measures after skin contact	: Wash with plenty of water/ Wash contaminated clothing before reuse. Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
First-aid measures after ingestion	: Immediately call a POISON CENTER/doctor. Rinse mouth.
4.2. Most important symptoms an	d effects, both acute and delayed
Symptoms/effects	: Causes damage to organs.
Symptoms/effects after inhalation	: May cause respiratory irritation. May cause drowsiness or dizziness.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after ingestion	: May be fatal if swallowed and enters airways.
4.3. Indication of any immediate n	nedical attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Carbon dioxide. Dry powder. Foam. Water spray.
Unsuitable extinguishing media	: Do not use extinguishing media containing water.
5.2. Special hazards arising from	the substance or mixture
Fire hazard	: Highly flammable liquid and vapour.
Explosion hazard	: May form flammable/explosive vapour-air mixture.
5.3. Advice for firefighters	
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory
	protection.
SECTION 6: Accidental release measu	ires
6.1. Personal precautions, protect	tive equipment and emergency procedures
General measures	: Remove ignition sources. Use special care to avoid static electric charges. No oper flames. No smoking.
6.1.1. For non-emergency personne Emergency procedures	: Evacuate unnecessary personnel.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls	
Hand protection	: Protective gloves
Eye protection	: Chemical goggles or safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: Wear appropriate mask
SECTION 9: Physical and chemical pro	operties
9.1. Information on basic physical	l and chemical properties
Physical state	: Liquid
Molecular mass	: 92.14 g/mol
Colour	: Clear Colorless.
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Odour	: aromatic benzene-like.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: 2.24
Melting point	: -93 °C
Freezing point	: No data available
Boiling point	: 110 - 111 °C
Flash point	: 4 °C
Auto-ignition temperature	: 535 K
Decomposition temperature	: No data available
Flammability (solid, gas)	: Flammable Highly flammable liquid and vapour.
Vapour pressure	: 22 at 20°C
Relative vapour density at 20 °C	: 3.14
Relative density	: No data available
Density Solubility	:0.86 g/cm³ :Water: 0.05 g/100ml @ 20°C (gm/100gm water)
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: 0.012 - 0.07 vol %
9.2. Other information	

No additional information available		
SECTION 10: Stability and reactivity		
10.1. Reactivity		
No additional information available		
10.2. Chemical stability		
Stable under normal conditions.		
10.3. Possibility of hazardous reactions		
No additional information available		
10.4. Conditions to avoid		
Open flame. Heat. Sparks.		
10.5. Incompatible materials		
No additional information available		

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10.6. Hazardous decomposition products May release flammable gases. SECTION 11: Toxicological information		
11.1. Information on toxicologica	al effects	
Acute toxicity	: Not classified	
Skin corrosion/irritation	: Causes skin irritation.	
Serious eye damage/irritation	: Not classified	
Respiratory or skin sensitisation	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Suspected of damaging the unborn child.	
STOT-single exposure	: May cause drowsiness or dizziness.	
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.	
Aspiration hazard	: May be fatal if swallowed and enters airways.	

SECTIO	12: Ecological information	
12.1.	Toxicity	
No add	onal information available	

12.2. Persistence and degradability No additional information available 12.3. Bioaccumulative potential No additional information available 12.4. Mobility in soil No additional information available 12.5. Results of PBT and vPvB assessment No additional information available

12.6. Other adverse effects

No additional information available

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SECTION 13: Disposal considerations		
13.1. Waste treatment methods		
Product/Packaging disposal recommendations	: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.	
Additional information	: Handle empty containers with care because residual vapours are flammable.	
Ecology - waste materials	: Hazardous waste due to toxicity.	

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number	
UN-No. (ADR)	: 1294
UN-No. (IMDG)	: 1294
UN-No. (IATA)	: 1294
UN-No. (ADN)	: 1294
UN-No. (RID)	: 1294
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: TOLUENE
Proper Shipping Name (IMDG)	: TOLUENE
Proper Shipping Name (IATA)	: Toluene
Proper Shipping Name (ADN)	: TOLUENE
Proper Shipping Name (RID)	: TOLUENE
Transport document description (ADR)	: UN 1294 TOLUENE, 3, II, (D/E)
Transport document description (IMDG)	: UN 1294 TOLUENE, 3, II (7°C c.c.)
Transport document description (IATA)	: UN 1294 Toluene, 3, II
Transport document description (ADN)	: UN 1294 TOLUENE, 3, II
Transport document description (RID)	: UN 1294 TOLUENE, 3, II
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: 3
Danger labels (ADR)	: 3
Daliger labels (ADR)	. 5
IMDG	
Transport hazard class(es) (IMDG)	: 3

Danger labels (IMDG)



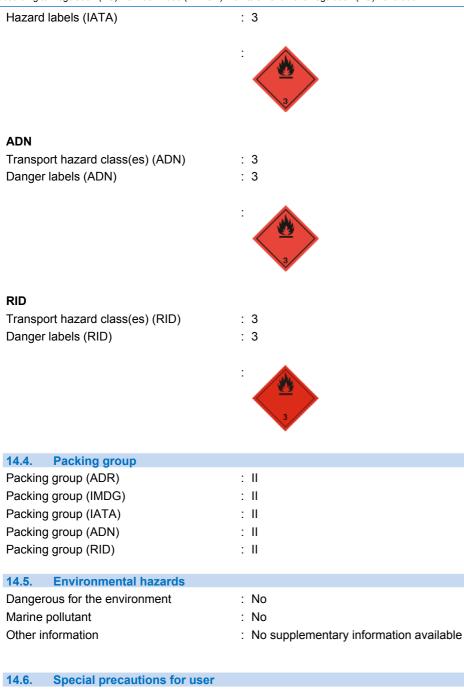
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Transport hazard class(es) (IATA)

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 Overland transport 	
Classification code (ADR)	: F1
Limited quantities (ADR)	: 11
Excepted quantities (ADR)	: E2
Packing instructions (ADR)	: P001, IBC02, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T4
Portable tank and bulk container special provisions (ADR)	: TP1
Tank code (ADR)	: LGBF
Vehicle for tank carriage	: FL
Transport category (ADR)	: 2

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Special provisions for carriage - Operation (ADR)	: S2, S20
Hazard identification number (Kemler No.)	: 33
Orange plates	33
	1294
Tunnel restriction code (ADR)	 : D/E
EAC code	: 3YE
- Transport by sea	
Limited quantities (IMDG)	: 1L
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-D
Stowage category (IMDG)	: B
Flash point (IMDG)	: 7°C c.c.
Properties and observations (IMDG)	: Colourless liquid with a benzene-like odour. Flashpoint: 7°C c.c. Explosive limits:
	1.27% to 7% Immiscible with water.
MFAG-No	: 130
- Air transport	
PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y341
PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 353
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 364
CAO max net quantity (IATA)	: 60L
ERG code (IATA)	: 3L
- Inland waterway transport	
Classification code (ADN)	: F1
Limited quantities (ADN)	: 1L
Excepted quantities (ADN)	: E2
Carriage permitted (ADN)	: Т
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01
Number of blue cones/lights (ADN)	: 1
- Rail transport	
Classification code (RID)	: F1
Limited quantities (RID)	: 1L
Excepted quantities (RID)	: E2
Packing instructions (RID)	: P001, IBC02, R001
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container	: T4
instructions (RID)	
Portable tank and bulk container special provisions (RID)	: TP1

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Tank codes for RID tanks (RID)	: LGBF
Transport category (RID)	: 2
Colis express (express parcels) (RID)	: CE7
Hazard identification number (RID)	: 33

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

TOLUENE For pesticide residue trace analysis is not on the REACH Candidate List TOLUENE For pesticide residue trace analysis is not on the REACH Annex XIV List

15.1.2. National regulations

Germany 1046 0

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	:	Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)
Netherlands		
SZW-lijst van kankerverwekkende stoffen	:	The substance is not listed
SZW-lijst van mutagene stoffen	:	The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	:	The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	:	The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	:	TOLUENE For pesticide residue trace analysis is listed
Denmark		
Class for fire hazard	:	Class I-1
Store unit	:	1 liter
Classification remarks	:	F <flam. 2="" liq.="">; Emergency management guidelines for the storage of flammable liquids must be followed</flam.>
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Recommendations Danish Regulation	:	Young people below the age of 18 years are not allowed to use the product
Recommendations Danish Regulation	:	Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product
Recommendations Danish Regulation	:	Pregnant/breastfeeding women working with the product must not be in direct

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15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of R-, H- and EUH-statements:

Asp. Tox. 1	Aspiration hazard, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
R11	Highly flammable
R38	Irritating to skin
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation
R63	Possible risk of harm to the unborn child
R65	Harmful: may cause lung damage if swallowed
R67	Vapours may cause drowsiness and dizziness
F	Highly flammable
Xi	Irritant
Xn	Harmful

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product