TOLUENE LOW IN SULPHUR EXTRA PURE MSDS



CAS No: 108-88-3 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	: 00329
Formula	: C7H8 - (C(CH3)CHCHCHCHCH)
Chemical structure	CH ₃

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

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 Skin corrosion/irritation, H315 Category 2 Reproductive toxicity, H361d Category 2 Specific target organ H336 toxicity - Single exposure, Category 3, Narcosis www.Labogens.com

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

Full text of classification categories and H statements : see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC

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) N Hazard pictograms (CLP)	Io. 1272/2008 [CLP]
	GHS02 GHS07 GHS08
Signal word (CLP)	: Danger
Hazard statements (CLP)	 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

SECTION 3: Composition/information	on ingredients
3.1. Substance	
Name	: TOLUENE LOW IN SULPHUR Extra Pure
CAS No	: 108-88-3
EC no	: 203-625-9
EC no EC index no	: 601-021-00-3
	. 601-021-00-3
Full text of R- and H-phrases: see section	n 16
3.2. Mixture	
Not applicable	
SECTION 4: First aid measures	
4.1. Description of first aid measu	res
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
First-aid measures after skin contact	: Wash with plenty of soap and water. Wash contaminated clothing before reuse. Get medical advice/attention.
First-aid measures after eye contact	: Rinse eyes with water as a precaution. Rinse cautiously with water for several minutes. Get medical advice/attention.
First-aid measures after ingestion	: Immediately call a POISON CENTER or doctor/physician. Rinse mouth.
	d effects, both acute and delayed
Symptoms/injuries	: Causes damage to organs.
Symptoms/injuries after inhalation	: May cause respiratory irritation. May cause drowsiness or dizziness.
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after ingestion	: May be fatal if swallowed and enters airways.
4.3. Indication of any immediate m	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 t	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	res
6.1. Personal precautions, protect	tive equipment and emergency procedures
General measures	: Remove ignition sources. Use special care to avoid static electric charges. No nake lights. No smoking.
6.1.1. For non-emergency personne	d de la construcción de la constru

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6.1.2. For emergency responders		
Protective equipment	: Use personal protective equipment as required.	
Emergency procedures	: Ventilate area.	
6.2. Environmental precautions		
Avoid release to the environment.		
6.3. Methods and material for conta	ainment and cleaning up	
Methods for cleaning up	: On land, sweep or shovel into suitable containers. Collect spillage.	
6.4. Reference to other sections		
No additional information available		
SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Additional hazards when processed	: Handle empty containers with care because residual vapours are flammable.	
Precautions for safe handling	: Keep away from sources of ignition - No smoking. Use only non-sparking tools. Avoid contact with skin and eyes. Use only outdoors or in a well-ventilated area. Do not breathe vapours.	
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.	
7.2. Conditions for safe storage, in	cluding any incompatibilities	
Technical measures	: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment.	
Storage conditions	: Keep in fireproof place. Keep container tightly closed.	
Incompatible materials	: Heat sources.	
7.3. Specific end use(s)		
No additional information available		
SECTION 8: Exposure controls/person	al protection	
8.1. Control parameters		

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	: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Wear respiratory protection
SECTION 9: Physical and chemical properties	

9.1. Information on basic physical a	. Information on basic physical and chemical properties	
Physical state	: Liquid	
Molecular mass Colour	: 92.14 g/mol : Clear Colorless.	

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Odour	: aromatic benzene-like.
Odour threshold	: No data available
рН	: 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 °C
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 @ 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.ReactivityNo additional information available	
10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous reaction	ns
No additional information available	

10.4. Conditions to avoid

Open flame. Heat. Sparks.

10.5. Incompatible materials

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10.6. Hazardous decomposition products

May release flammable gases.

SECTION 11: Toxicological information	n
11.1. Information on toxicological e	ffects
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.
Specific target organ toxicity (single exposure)	: May cause drowsiness or dizziness.
Specific target organ toxicity (repeated exposure)	: May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: May be fatal if swallowed and enters airways.
SECTION 12: Ecological information	
12.1. Toxicity	
No additional 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

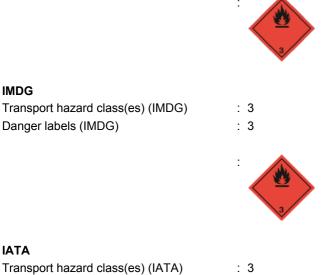
12.6. Other adverse effects

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SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Product/Packaging disposal recommendations	: Dispose of contents/container to
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

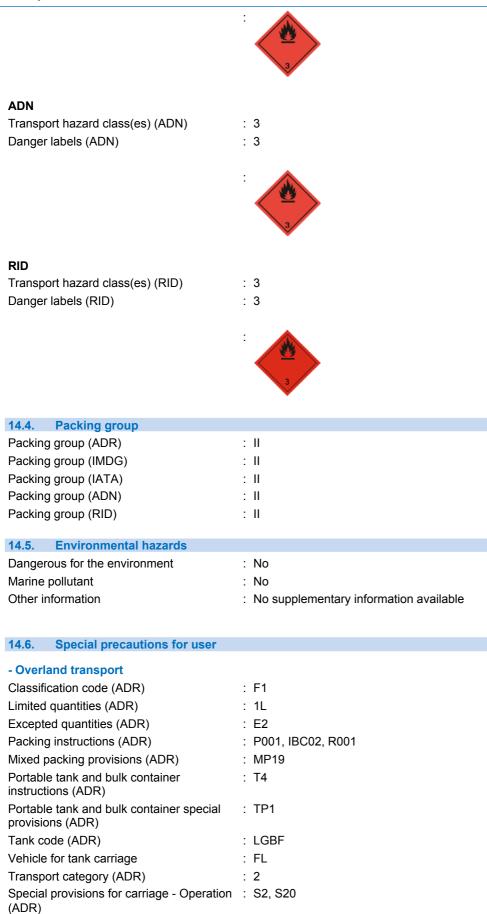
44.4 UN sussesses	
14.1. UN number	
UN-No. (ADR)	: 1294
UN-No. (IMDG)	: 1294
UN-No.(IATA)	: 1294
UN-No.(ADN)	: 1294
UN-No. (RID)	: 1294
······(····)	
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: TOLUENE
Proper Shipping Name (IMDG)	: TOLUENE
Proper Shipping Name (IATA)	: TOLUENE
Proper 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
· ····································	



: 3

Hazard labels (IATA)

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Hazard identification number (Kemler No.) : 33

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Orange plates	33
	1294
Tunnel restriction code (ADR) EAC code	: D/E : 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.
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)	: T
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
Tank codes for RID tanks (RID)	: LGBF
Transport category (RID)	: 2
Colis express (express parcels) (RID)	: CE7
Hazard identification number (RID)	: 33

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14.7. Transport in bulk according to A	Annex II of MARPOL 73/78 and the IBC Code
Not applicable	
SECTION 15: Regulatory information	
15.1. Safety, health and environmenta	al regulations/legislation specific for the substance or mixture
15.1.1. EU-Regulations	
No REACH Annex XVII restrictions	
TOLUENE LOW IN SULPHUR Extra Pure i	s not on the REACH Candidate List
TOLUENE LOW IN SULPHUR Extra Pure i	
15.1.2. National regulations	
Germany	· Mater barard class (MOK) 2. barardous to water (Classification according to
AwSV/VwVwS Annex reference	: Water hazard class (WGK) 2, hazardous to water (Classification according to VwVwS, Annex 2; WGK No 194)
12th Ordinance Implementing the Federal	: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)
Immission Control Act - 12.BImSchV	
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.>
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
	The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of R-, H- and El	JH-phrases:
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

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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