

CHAITANYA CHS, 2nd FLOOR, OFFICE # 206, SIDDHARTH NAGAR, S.V.ROAD, GOREGAON (W), MUMBAł 400062, MH, INDIA. CONTACT: +9122 28725393 /94/ 95 | EMAILID: CARE@SUVCHEM.COM

MATERIAL SAFETY DATA SHEET (MSDS)

TOLUENE AR

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier			
Trade name	: TOLUENE AR		
Product code	: SS0105302500		
Identification of the product	: Toluene CAS No: 108-88-3 EC No :203-625-9 Annex No :601-021-00-3		
Chemical formula	: C7H8 - (C(CH3)CHCHCHCHCH)		
1.2. Relevant identified uses of the s	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	SUVCHEM Chaitanya Tower, 2nd Floor, Office # 206, Siddharth Nagar, S.V. Road, Goregaon (West), Mumbai - 400062, Maharashtra, India. Contact: +91 22 28725393 / 94 / 95 Email ID: info@suvchem.com/care@suvchem.com		
1.4. Emergency telephone number			
Phone no.	: + 91 22 28725393 / 94 / 95 (9:00am - 6:00 pm) [Office hours]		

2. Hazards identification -DSD

2.1. Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45

Classification

: F; R11 Repr. Cat. 3; R63 Xn; R65-48/20 R67 Xi; R38

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards: Reproductive toxicity - Unborn Child - Category 2 - Warning (CLP : Repr. 2) H361
Specific Target Organ Toxicity - Single exposure - Respiratory tract irritation -
Category 3 - Warning (CLP : STOT SE 3) H335
Specific Target Organ Toxicity - Single exposure - Narcotic effects - Category 3 -
Warning (CLP : STOT SE 3) H336



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2. Hazards identification -DSD (continued) Specific Target Organ Toxicity - Repeated exposure - Category 2 - Warning (CLP : STOT RE 2) H373 Aspiration hazard - Category 1 - Danger (CLP : Asp. Tox. 1) H304 Skin irritation - Category 2 - Warning (CLP : Skin Corr. 2) H315 : Flammable liquids - Category 2 - Danger (CLP : Flam. Liq. 2) H225 **Physical hazards** 2.2. Label elements Labelling EC 67/548 or EC 1999/45 Symbol(s) : F : Highly flammable Symbol(s) Xn : Harmful R Phrase(s) : 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. : S2 : Keep out of the reach of children. S Phrase(s) S36/37 : Wear suitable protective clothing and gloves. S62 : If swallowed, do not induce vomiting : seek medical advice immediately and show this container or label. Contains : Toluene Labelling Regulation EC 1272/2008 (CLP) Hazard pictograms : Danger Signal words Hazard statements : H225 : Highly flammable liquid and vapour. H304 : May be fatal if swallowed and enters airways. H315 : Causes skin irritation. H335 : May cause respiratory irritation. H336 : May cause drowsiness or dizziness. H373 : May cause damage to organs through prolonged or repeated exposure. H361d: Suspected of damaging the unborn child.

Precautionary statements

AN ISO 9001: 2015 CERTIFIED



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2. Hazards identification -DSD (continued)		
• General	 P102: Keep out of reach of children. P103: Read label before use. P101: If medical advice is needed, have product container or label at hand. P201: Obtain special instructions before use. 	
• Prevention	 P240: Ground/bond container and receiving equipment. P241: Use explosion-proof electrical, ventilating, lighting,, equipment. P210: Keep away from heat, sparks, open flames or hot surfaces No smoking. P280: Wear protective gloves, protective clothing, eye protection, face protection. P271: Use only outdoors or in a well-ventilated area. P260: Do not breathe dust, fume, gas, mist, vapours, spray. P233: Keep container tightly closed. P264: Wash thoroughly after handling. 	
• Response	 P301+P310: IF SWALLOWED : Immediately call a POISON CENTER or doctor. P302+P352: IF ON SKIN : Wash with plenty of soap and water. P308+P313: If exposed or concerned : get medical advice. P332+P313: If skin irritation occurs : Get medical advice. P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing. P303+P361+P353: IF ON SKIN (or hair) : Remove immediately all contaminated clothing. Rinse skin with water/shower. P363: Wash contaminated clothing before reuse. P314: Get medical advice if you feel unwell. P370+P378: In case of fire: Use for extinction. 	
• Storage	 P403+P233: Store in well-ventilated place. Keep container tightly closed. P403+P235: Store in well-ventilated place. Keep cool. P405: Store locked up. 	
 Disposal considerations 	P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.	
Contains	: Toluene	
2.3. Other hazards		
Other hazards	: The substance does not fulfil the criteria to be identified as PBT substance or vPv substance according to Annex XIII of Regulation REACH.	

3. Composition/information on ingredients							
Substance / Preparation		: Tolu	uene				
		An	No :203-625 nex No :601-0 bstance.				
Substance name Toluene	:	Contents 100 %	CAS No 108-88-3	EC No 203-625-9	Annex No 601-021-00-3	REACH Ref.	Classification F; R11 Repr. Cat. 3; R63 Xn; R65-48/20 R67 Xi; R38
							 Flam. Liq. 2 _ H225 Asp. Tox 1 _ H304



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3. Composition/information on ingredients (continued)

Repr. 2 _ H361d Skin Irrit. 2 _ H315 STOT SE 3 _ H335 STOT RE 2 _ H373 STOT SE 3 _ H336

Contains no other components or impurities which will influence the classification of the product.

4. First aid measures	
4.1. Description of first aid meas	ures
Inhalation	: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.
Skin contact	: Wash contaminated clothing before reuse. If skin irritation occurs : Wash with plenty of soap and water. Get medical advice. Specific treatment (see on this label) Remove/Take off immediately all contaminated clothing.
Eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
Ingestion	: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor.
<u>4.2. Most important symptoms a</u>	ind effects, both acute and delayed
Symptoms relating to use	: Causes damage to organ. May be fatal if swallowed and enters airways. Causes skin irritation. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of damaging the unborn child.
4.3. Indication of any immediate	medical attention and special treatment needed
General information	: Never give anything by mouth to an unconscious person. If exposed or concerned : get medical advice.
5. Fire-fighting measures	
5.1. Extinguishing media	

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.	
Unsuitable extinguishing media	a : Do not use a heavy water stream.	
Surrounding fires	: Use water spray or fog for cooling exposed containers.	
5.2. Special hazards arising from the	substance or mixture	

Flammable class	: Highly flammable liquid and vapour.
Hazardous combustion products	: Under fire conditions, hazardous fumes will be present.



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5.3. Advice for fire-fighters		
Protection against fire	: Do not enter fire area without proper protective equipment, including respiratory protection.	
Special procedures	: Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water enter environment.	
Accidental release measures		
6.1. Personal precautions, protecti	ve equipment and emergency procedures	
For emergency responders	: Equip cleanup crew with proper protection. Ventilate area. Avoid breathing dust, fume, gas, mist, vapours, spray.	
Technical measures	: Use special care to avoid static electric charges.	
Special precautions	: Remove ignition sources. No naked lights. No smoking.	
For non-emergency personnel	: Evacuate unnecessary personnel.	
6.2. Environmental precautions		
Environmental precautions	: Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.	
6.3. Methods and material for containment and cleaning up		
Clean up methods	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.	
6.4. Reference to other sections		
See section 8. Exposure controls/personal protection		
See section 8. Exposure controls/per	sonal protection	

7.1. Precautions for safe handling

Handling	: Handle empty containers with care because residual vapours are flammable. Obtain special instructions before use. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area.
Technical protective measures	: Provide good ventilation in process area to prevent formation of vapour. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof electrical, ventilating, lighting,, equipment.



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7. Handling and storage (continued)	
Special precautions	: No naked lights. No smoking. Avoid breathing dust, fume, gas, mist, vapours, spray.
7.2. Conditions for safe storage, inclu	uding any incompatibilities
Storage	: Keep only in the original container in a cool, well ventilated place. Keep in fireproof place. Ground/bond container and receiving equipment. Keep container tightly closed.
Storage - away from	: Strong bases. Strong acids. Sources of ignition. Direct sunlight. Heat sources.
7.3. Specific end use(s)	
Specific end use(s)	: None.

8. Exposure controls/personal protection

8.1. Exposure controls

Personal protection	: Avoid all unnecessary exposure.
Respiratory protection	: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Wear respiratory protection.
 Hand protection 	: Wear protective gloves.
 Skin protection 	: Wear suitable protective clothing.
 Eye protection 	: Chemical goggles or safety glasses.
Others	: When using, do not eat, drink or smoke.
8.2. Control parameters	
Occupational Exposure Limits	: No data available.
ILV (EU) - 8 H - [ppm]	: (50 Skin.)
ILV (EU) - 8 H - [mg/m³]	:(192 Skin.)
ILV (EU) - 15 min - [ppm]	: (100 Skin.)
ILV (EU) - 15 min - [mg/m³]	: (384 Skin.)
OEL (UK)-LTEL [ppm]	: 50
OEL (UK)-STEL [ppm]	: 150

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state at 20 °C : Liquid.



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9. Physical and chemical properties (continued)

Colour	: Clear Colorless
Odour	: Aromatic benzene-like
Odour threshold	: No data available.
pH value	: No data available.
Melting point [°C]	: -95
Decomposition point [°C]	: N/A
Critical temperature [°C]	: N/A
Auto-ignition temperature [°C]	: 535
Flammability (solid, gas)	: Flammable.
	Highly flammable liquid and vapour.
Flash point [°C]	: 4°C : 110 - 111 °C
Boiling point [°C]	
Initial boiling point [°C]	: 110 °C
Final boiling point [°C]	: 111 °C
Evaporation rate	: 2,24
Vapour pressure [20°C]	: 22 @ 20C
Vapour pressure mm/Hg	: 22 @ 20C
Vapour density	: 3,14
Density [g/cm3]	: 0,86
Relative density, gas (air=1)	: 3.2
Relative density, liquid (water=1)	
Solubility in water [% weight]	: Insoluble.
Solubility in water	: N/A
Log Pow octanol / water at 20°C	
Solubility	: N/A
Viscosity at 40°C [mm2/s]	: N/A
9.2. Other information	
Explosive properties	: N/A
Explosion limits - upper [%]	: 7
Explosion limits - lower [%]	: 1.2
Oxidising properties	: No data available.

10. Stability and reactivity

10.1. Reactivity

Reactivity

: Not established.



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10. Stability and reactivity (continue	d)	
10.2. Chemical stability		
Chemical stability	: Stable under recommended storage conditions.	
10.3. Possibility of hazardous reactions		
Hazardous reactions	: Not established.	
10.4. Conditions to avoid		
Conditions to avoid	: Direct sunlight. Extremely high or low temperatures. Open flame.	
10.5. Incompatible materials		
Materials to avoid	: Strong acids. Strong bases.	
10.6. Hazardous decomposition products		
Hazardous decomposition products	: Fumes. Carbon monoxide. Carbon dioxide. May release flammable gases.	

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity	
Inhalation	: May be fatal if swallowed and enters airways.
• Dermal	: Based on available data, the classification criteria are not met.
Ingestion	: May be fatal if swallowed and enters airways.
- Rat oral LD50 [mg/kg]	: 7000
Corrosion	: Based on available data, the classification criteria are not met.
Irritation	: Causes skin irritation. May cause respiratory irritation.
Sensitization	: Based on available data, the classification criteria are not met.
Mutagenicity	: Based on available data, the classification criteria are not met.
Carcinogenicity	: Based on available data, the classification criteria are not met.
Toxic for reproduction	: 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.



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12. Ecological information	
<u>12.1. Toxicity</u>	
Toxicity information	: Not established.
<u> 12.2. Persistence - degradability</u>	
Persistence - degradability	: Biodegradable.
12.3. Bioaccumulative potential	
Bioaccumulative potential	: Not established.
<u>12.4. Mobility in soil</u>	
Mobility in soil	: Not established.
Log Pow octanol / water at 20°C	: 2.6
<u>12.5. Results of PBT and vPvB assessment</u>	
Results of PBT and vPvB assessme	ent : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.
12.6. Other adverse effects	
Environmental precautions	: Avoid release to the environment.
13. Disposal considerations	
13.1. Waste treatment methods	
General	 Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations. Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
Special precautions	: Handle empty containers with care because residual vapours are flammable. Hazardous waste due to toxicity.
14. Transport information	
<u>14.1. Land transport (ADR-RID)</u>	
Proper shipping name UN N°	: TOLUENE : 1294



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14. Transport information (conti	nued)
H.I. nr	: 33
ADR - Class	: 3
Labelling - Transport	: 3 : Flammable liquid.
	\diamond
ADR - Classification code	: F1
ADR - Group	: II
ADR - Packing instructions	: P001 R001
ADR - Limited Quantity	: 1L
ADR - Tunnel code	: D/E : Bulk or tank carriage: Passage forbidden through tunnels of category D and E. Other carriage: Passage forbidden through tunnels of category E.

14.2. Sea transport (IMDG) [English only]

Proper shipping name	: TOLUENE
UN N°	: 1294
IMO-IMDG - Class or division	: 3 : Flammable liquid.
IMO-IMDG - Packing group	: 11
IMO- IMDG - Packing instructions	: P001
IMO-IMDG - Limited quantities	: 1 L
IMO-IMDG - Marine pollution	: No
EMS-Nr	: F-E S-D

14.3. Air transport (ICAO-IATA) [English only]

Proper shipping name	: TOLUENE
UN N°	: 1294
IATA - Class or division	: 3 : Flammable liquid.
IATA - Packing group	: 11
IATA - Passenger and Cargo Aircraft	: ALLOWED
- Passenger and Cargo - Packing instruction	: 353
- Passenger and Cargo - Maximum Quantity/Packing	: 5 L
IATA - Cargo only	: ALLOWED



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- Cargo only - Packing instruction	: 364	
- Cargo only - Maximum Quantity/ Packing	: 60 L	
IATA - Limited Quantites	: 1L	
ERG-Nr	: 3L	

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

Safety, health and environmental regulations/legislation specific for th substance or mixture	: Ensure all national/local regulations are observed. ne
REACH Restrictions - Annex XVII	: With the exception of those listed below: Annex XVII The components of this product are not subject to restrictions.
REACH Authorisation - Annex XIV	: The components of this product are not subject to authorization.
15.2. Chemical Safety Assessment	
Chemical Safety Assessment	: It has not been carried out.

Revision	Revision - See : *
Abbreviations and acronyms	PBT: persistent, bioaccumulative and toxic. vPvB: very persistent and very bioaccumulative
Sources of key data used	REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
List of relevant R phrases (heading 3) :	 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.
List of full text of H-statements in section 3	 H225 : Highly flammable liquid and vapour. H304 : May be fatal if swallowed and enters airways. H315 : Causes skin irritation. H335 : May cause respiratory irritation. H336 : May cause drowsiness or dizziness. H361U : Suspected of damaging the unborn child. H373 : May cause damage to organs through prolonged or repeated exposure.



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In accordance with REACH Regulation (CE) Nº 1907/2006 and with CLP Regulation (CE) Nº 1272/2008

DISCLAIMER:

- SUVCHEM Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- SUVCHEM shall not be responsible for any damage resulting from handling or from contact with the above product.
- SUVCHEM provides the information contained herein in good faith but makes no representation as to its
 comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of
 the material by a properly trained person using this product.

End of document

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