

CAS No: 105-39-5 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	: 607-070-00-7
EC no	: 203-294-0
CAS No	: 105-39-5
Product code	: 03722
Formula	: C4H7ClO2

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

: Industrial. For professional use only.

1.2.2. Uses advised against

No additional information available

1.3.	Details of the supplier of the safety data sheet
LOBA C	CHEMIE PVT.LTD.
107 Wo	de House Road, Jehangir Villa, Colaba
400005	Mumbai - INDIA
-	2 6663 6663 - F +91 22 6663 6699
info@lo	bachemie.com - www.lobachemie.com

1.4. Emergency telephone number

Emergency number

: + 91 22 6663 6663 (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, H226 Category 3 Acute toxicity (oral), H301 Category 3 Acute toxicity (dermal), H311 Category 3 H331 Acute toxicity (inhal.), Category 3 Serious eye damage/eye H318 irritation, Category 1 Hazardous to the aquatic H400 environment — Acute Hazard, Category 1

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

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

T; R23/24/25 N; R50 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)	No. 1272/2008 [CLP]
Hazard pictograms (CLP)	GHS02 GHS05 GHS06 GHS09
Signal word (CLP)	: Danger
Hazard statements (CLP)	 H226 - Flammable liquid and vapour H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled H318 - Causes serious eye damage H400 - Very toxic to aquatic life
Precautionary statements (CLP)	 P261 - Avoid breathing dust, fume, gas, spray, vapours P273 - Avoid release to the environment P280 - Wear protective gloves, protective clothing, eye protection, face protection P301+P310 - IF SWALLOWED: immediately call a POISON CENTER or doctor/physician P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P311 - Call a doctor

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance	
Name	: ETHYL CHLOROACETATE FOR SYNTHESIS
CAS No	: 105-39-5
EC no	: 203-294-0
EC index no	: 607-070-00-7

Full text of R- and H-phrases: see section 16

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3.2. Mixture

Not applicable

SECTION 4: First aid measures			
4.1. Description of first aid measures			
-	: Remove victim to fresh air and keep at rest in a position comfortable for breathing.		
	Allow the victim to rest. Get medical advice/attention if you feel unwell.		
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. 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 immediate medical advice/attention.		
First-aid measures after ingestion	: Rinse mouth. Obtain emergency medical attention. Immediately call a POISON CENTER or doctor/physician.		
4.2. Most important symptoms and ef	fects, both acute and delayed		
Symptoms/injuries after skin contact	: Repeated exposure to this material can result in absorption through skin causing significant health hazard. Toxic in contact with skin.		
Symptoms/injuries after eye contact	: Causes serious eye damage.		
Symptoms/injuries after ingestion	: Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard.		
4.3. Indication of any immediate med	ical attention and special treatment needed		
No additional information available			
SECTION 5: Firefighting measures			
5.1. Extinguishing media			
	: Water spray. Dry powder. Carbon dioxide. Foam.		
	: Do not use a heavy water stream.		
	. Do not use a neavy water stream.		
5.2. Special hazards arising from the	substance or mixture		
Fire hazard	: Flammable liquid and vapour.		
Explosion hazard	: May form flammable/explosive vapour-air mixture.		
5.3. Advice for firefighters			
Firefighting instructions	: Do not enter fire area without proper protective equipment, including respiratory protection.		
SECTION 6: Accidental release measures			
6.1. Personal precautions. protective	equipment and emergency procedures		
	: Remove ignition sources. No naked lights. No smoking. Use special care to avoid		
General measures	static electric charges.		
6.1.1. For non-emergency personnel			
Emergency procedures	: Evacuate unnecessary personnel.		
6.1.2. For emergency responders			
	: Use personal protective equipment as required.		
	: Ventilate area.		
6.2. Environmental precautions			
6.2. Environmental precautions Avoid release to the environment.			
6.3. Methods and material for contain	ment and cleaning up		
Methods for cleaning up	: Collect spillage. On land, sweep or shovel into suitable containers. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.		

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0.4 Defense to other continue	
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Avoid contact with skin and eyes. Do not breathe vapours. Keep away from sources of ignition - No smoking. Use only non-sparking tools. Provide good ventilation in process area to prevent formation of vapour.
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. Use explosion-proof electrical/ventilating/lighting/ 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/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 respiratory protection
SECTION 9: Physical and chemical prop	perties
9.1. Information on basic physical a	nd chemical properties
Physical state	: Liquid
Colour	: Clear Colorless.
Odour	: fruity,pungent.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: -26 °C
Freezing point	: No data available
Boiling point	: 143 °C

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Flash point	: 54 °C
Critical temperature	: 344.85 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: 4.4 hPa at 20 °C
Relative vapour density at 20 °C	: 4.23
Relative density	: No data available
Density	: 1.1498 g/cm ³
Solubility	: Water: Insoluble
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	: No data available

9.2.	Other information	
No additional information available		
SECTIC	N 10: Stability and reactivity	
10.1.	Reactivity	
No addi	tional information available	
10.2.	Chemical stability	
Stable ι	inder normal conditions.	
10.3.	Possibility of hazardous reaction	ns
No addi	tional information available	
10.4.	Conditions to avoid	
Direct s	unlight. Extremely high or low temp	eratures. Open flame. Heat.
10.5.	Incompatible materials	
Strong acids. Strong bases.		
10.6.	6. Hazardous decomposition products	
Carbon dioxide. Carbon monoxide. fume.		
SECTIC	N 11: Toxicological information	
11.1.	Information on toxicological effe	octo
	-	: Oral: Toxic if swallowed. Dermal: Toxic in contact with skin. Inhalation: Toxic if
Acute to	xicity	inhaled.
Skin cor	rosion/irritation	: Not classified

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Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated	: Not classified
exposure)	
Aspiration hazard	: Not classified
Potential adverse human health effects	: Toxic if swallowed. Toxic in contact with skin.
and symptoms	
SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - water	: Very toxic to aquatic life.
Looogy - water	

12.2.	Persistence and degradability		
No addi	No additional information available		
12.3.	Bioaccumulative potential		
	tional information available		
12.4.	Mobility in soil		
No addi	No additional information available		
12.5.	Results of PBT and vPvB assess	sment	
No addi	tional information available		
12.6.	Other adverse effects		
No addi	tional information available		
SECTIO	ON 13: Disposal considerations		
13.1.	Waste treatment methods		
	/Packaging disposal nendations	: Dispose of contents/container to	
Ecology	· - waste materials	: Hazardous waste due to toxicity.	

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SECTION 14: Transport information

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

14.1. UN number	
UN-No. (ADR)	: 1181
UN-No. (IMDG)	: 1181
UN-NO.(IATA)	: 1181
UN-No.(ADN)	: Not regulated
UN-No. (RID)	: Not regulated
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: ETHYL CHLOROACETATE
Proper Shipping Name (IMDG)	: ETHYL CHLOROACETATE
Proper Shipping Name (IATA)	: ETHYL CHLOROACETATE
Proper Shipping Name (ADN)	: Not regulated
Proper Shipping Name (RID)	: Not regulated
Transport document description (ADR)	: UN 1181 ETHYL CHLOROACETATE, 6.1 (3), II, (D/E), ENVIRONMENTALLY HAZARDOUS
Transport document description (IMDG)	: UN 1181 ETHYL CHLOROACETATE, 6.1 (3), II, MARINE
	POLLUTANT/ENVIRONMENTALLY HAZARDOUS (54°C c.c.)
Transport document description (IATA)	: UN 1181 ETHYL CHLOROACETATE, 6.1, II, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: 6.1 (3)
Danger labels (ADR)	: 6.1, 3
IMDG	
Transport hazard class(es) (IMDG)	: 6.1 (3)
Danger labels (IMDG)	: 6.1, 3
IATA Transport hazard class(es) (IATA) Hazard labels (IATA)	: 6.1 (3) : 6.1, 3
ADN	
Transport hazard class(es) (ADN)	: Not regulated

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RID Transport hazard class(es) (RID)	: Not regulated
14.4. Packing group	
Packing group (ADR)	: 11
Packing group (IMDG)	: 11
Packing group (IATA)	: 11
Packing group (ADN)	: Not regulated
Packing group (RID)	: Not regulated
14.5. Environmental hazards	
Dangerous for the environment	: Yes
Marine pollutant	: Yes
Other information	: No supplementary information available

14.6. Special precautions for user	
- Overland transport	
Classification code (ADR)	: TF1
Limited quantities (ADR)	: 100ml
Excepted quantities (ADR)	: E4
Packing instructions (ADR)	: P001, IBC02
Mixed packing provisions (ADR)	: MP15
Portable tank and bulk container instructions (ADR)	: T7
Portable tank and bulk container special provisions (ADR)	: TP2
Tank code (ADR)	: L4BH
Tank special provisions (ADR)	: TU15, TE19
Vehicle for tank carriage	: FL
Transport category (ADR)	: 2
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV13, CV28
Special provisions for carriage - Operation (ADR)	: S2, S9, S19
Hazard identification number (Kemler No.)	: 63
Orange plates	63
	1181
Tunnel restriction code (ADR)	: D/E
EAC code	: 2W
APP code	: A(fl)
- Transport by sea	
Limited quantities (IMDG)	: 100 ml
Excepted quantities (IMDG)	: E4
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T7
Tank special provisions (IMDG)	: TP2
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-D
Stowage category (IMDG)	: A
Flash point (IMDG)	: 54°C c.c.
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Bala Bridde	
MFAG-No	: 155
- Air transport	
PCA Excepted quantities (IATA)	: E4
PCA Limited quantities (IATA)	: Y641
PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 654
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 662
CAO max net quantity (IATA)	: 60L
ERG code (IATA)	: 6F
- Inland waterway transport	
Not regulated	
- Rail transport	
Not regulated	
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14.7. Transport in bulk according to	o Annex II of MARPOL 73/78 and the IBC Code
Not applicable	
SECTION 15: Regulatory information	
45.4 Cofety boolth and environme	ntal regulations llegislation analisis for the substance or mixture
	ntal regulations/legislation specific for the substance or mixture
15.1.1. EU-Regulations	

No REACH Annex XVII restrictions

ETHYL CHLOROACETATE FOR SYNTHESIS is not on the REACH Candidate List ETHYL CHLOROACETATE FOR SYNTHESIS is not on the REACH Annex XIV List

15.1.2. National regulations

Germany

AwSV/VwVwS Annex reference	: Water hazard class (WGK) 3, strongly hazardous to water (KBwS-Beschluss; WGK No 1129)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)
Denmark	
Class for fire hazard	: Class II-1
Store unit	: 5 liter

for the storage of flammable liquids must be followed

Recommendations Danish Regulation

Version: 1

contact with the product

: R10 <H226;H301+H311+H331;H318;H400>; Emergency management guidelines

: 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

Classification remarks

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15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

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

Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Flam. Liq. 3	Flammable liquids, Category 3
H226	Flammable liquid and vapour
H301	Toxic if swallowed
H311	Toxic in contact with skin
H318	Causes serious eye damage
H331	Toxic if inhaled
H400	Very toxic to aquatic life
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed
R50	Very toxic to aquatic organisms
N	Dangerous for the environment
Т	Toxic

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