

CAS-No.: 79-04-9 MSDS

MATERIAL SAFETY DATA SHEET (MSDS)

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

1.1.	Product identifier		
Produc	t form	: Substance	
		:	
EC Inde	ex-No.	: 607-080-00-1	
EC-No.		: 201-171-6	
CAS-N	0.	: 79-04-9	
Produc	t code	: 2730D	
Chemic	al structure	: о	
			CI
			-

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

1.2.1. Relevant identified uses

Industrial/Professional use spec

: 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 CHEMIE PVT.LTD. 107 Wode House Road, Jehangir Villa, Colaba 400005 Mumbai - INDIA T +91 22 6663 6663 - F +91 22 6663 6699 info@lobachemie.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]

Acute toxicity (oral),	H301
Category 3 Acute toxicity (dermal),	H311
Category 3	11004
Acute toxicity (inhal.), Category 3	H331
Skin corrosion/irritation,	H314
Category 1A Specific target organ	H372
toxicity — Repeated	

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exposure, Category 1 Hazardous to the aquatic H400 environment — Acute Hazard, Category 1

Full text of H statements : see section 16

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

T; R23/24/25 T; R48/23 C; R35 N; R50 R14 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) GHS05 GHS06 GHS08 GHS09 Signal word (CLP) : Danger Hazard statements (CLP) : H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled H314 - Causes severe skin burns and eye damage. H372 - Causes damage to organs through prolonged or repeated exposure. H400 - Very toxic to aquatic life. Precautionary statements (CLP) : P261 - Avoid breathing vapours, dust, fume, gas. 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/doctor P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER/doctor **EUH-statements** : EUH014 - Reacts violently with water. EUH071 - Corrosive to the respiratory tract.

2.3. Other hazards

No additional information available

SECTI	ON 3: Composition/information on ingredients		
3.1.	Substances		

Name

: CHLOROACETYL CHLORIDE FOR SYNTHESIS

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CAS-No.	: 79-04-9
EC-No.	: 201-171-6
EC Index-No.	: 607-080-00-1

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

3.2. **Mixtures**

Not applicable

SECTION 4: First aid measures	
4.1. Description of first aid measure	
First-aid measures after inhalation	 Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
First-aid measures after skin contact	: Immediately call a POISON CENTER/doctor. Wash with plenty of water/ Wash contaminated clothing before reuse.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
First-aid measures after ingestion	: Rinse mouth. Immediately call a POISON CENTER/doctor. Do NOT induce vomiting.
4.2. Most important symptoms and	effects, both acute and delayed
Symptoms/effects	 Causes severe skin burns and eye damage. Causes damage to organs through prolonged or repeated exposure.
Symptoms/effects after inhalation	: Corrosive to the respiratory tract.
Symptoms/effects after skin contact	: Toxic in contact with skin.
Symptoms/effects after ingestion	: Toxic if swallowed.
4.3. Indication of any immediate me	dical attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).
Unsuitable extinguishing media	: Do not use extinguishing media containing water.
5.2. Special hazards arising from th	e substance or mixture
No additional information available	
5.3. Advice for firefighters	
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release measure	es
6.1. Personal precautions, protectiv	e equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
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. Do not allow water (or moist air) contact with this material.

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6.3. Methods and material for conta	inment and cleaning up
Methods for cleaning up	: Collect spillage. On land, sweep or shovel into suitable containers.
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	: Do not breathe vapours. Avoid contact with skin and eyes. 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, inc	luding any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Store in dry protected location to prevent any moisture contact.
Packaging materials	: Do not store in corrodable metal.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/persona	I protection
8.1. Control parameters	
No additional information available	

Hand protection	: Protective gloves
Eye protection	: Chemical goggles or face shield
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
Molecular mass	: 112.94 g/mol
Colour	: Clear Colorless.
Odour	: Pungent.
Odour threshold	: 0.011 ppm
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: -22 °C
Freezing point	: No data available
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8.2.

Exposure controls

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Boiling point	: 105 - 106 °C
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: 2.5 kPa (at 20°C)
Relative vapour density at 20 °C	: 3.9
Relative density	: No data available
Density Solubility	: 1.419 g/cm ³ : 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 addi	onal information available
SECTIO	N 10: Stability and reactivity
10.1.	Reactivity
No addi	onal information available
10.2.	Chemical stability
Stable u	nder normal conditions.
10.3.	Possibility of hazardous reactions
Highly re	active material. Reacts violently with water.
10.4.	Conditions to avoid
Moisture	
10.5.	Incompatible materials
No addi	onal information available
10.6.	Hazardous decomposition products
Therma	decomposition generates : Corrosive vapours.
SECTIO	N 11: Toxicological information
11.1.	Information on toxicological effects
Acute to	

Skin corrosion/irritation

: Causes severe skin burns and eye damage.

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Serious eye damage/irritation	: Serious eye damage, category 1, implicit
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
Additional information	: Corrosive to the respiratory tract.
STOT-repeated exposure	: Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified
Aspirator nazara	
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.

12.2.	Persistence and degradability	
No addi	tional information available	
12.3.	Bioaccumulative potential	
	tional information available	
NU auui		
12.4.	Mobility in soil	
No addi	tional information available	
12.5.	Results of PBT and vPvB assess	ment
No addi	tional information available	
12.6.	Other adverse effects	
No addi	tional information available	
SECTIC	ON 13: Disposal considerations	
13.1.	Waste treatment methods	
Product	/Packaging disposal	: Dispose of contents/container to hazardous or special waste collection point, in
recomm	endations	accordance with local, regional, national and/or international regulation.
Addition	al information	: Do not allow water (or moist air) contact with this material.

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)	: 1752
UN-No. (IMDG)	: 1752
UN-No. (IATA)	: 1752
UN-No. (ADN)	: 1752
UN-No. (RID)	: 1752
	. 1752
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: CHLOROACETYL CHLORIDE
Proper Shipping Name (IMDG)	: CHLOROACETYL CHLORIDE
Proper Shipping Name (IATA)	: Chloroacetyl chloride
Proper Shipping Name (ADN)	: CHLOROACETYL CHLORIDE
Proper Shipping Name (RID)	: CHLOROACETYL CHLORIDE
Transport document description (ADR)	: UN 1752 CHLOROACETYL CHLORIDE, 6.1 (8), I, (C/D), ENVIRONMENTALLY HAZARDOUS
Transport document description (IMDG)	: UN 1752 CHLOROACETYL CHLORIDE, 6.1 (8), I, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
Transport document description (IATA)	: UN 1752 Chloroacetyl chloride, 6.1, ENVIRONMENTALLY HAZARDOUS
Transport document description (ADN)	: UN 1752 CHLOROACETYL CHLORIDE, 6.1 (8), I, ENVIRONMENTALLY HAZARDOUS
Transport document description (RID)	: UN 1752 CHLOROACETYL CHLORIDE, 6.1 (8), I, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)	
14.3. Transport hazard class(es) ADR	
ADR	: 6.1 (8)
ADR Transport hazard class(es) (ADR)	: 6.1 (8) : 6.1.8
ADR	: 6.1 (8) : 6.1, 8
ADR Transport hazard class(es) (ADR)	
ADR Transport hazard class(es) (ADR) Danger labels (ADR)	
ADR Transport hazard class(es) (ADR) Danger labels (ADR)	: 6.1, 8
ADR Transport hazard class(es) (ADR) Danger labels (ADR) IMDG Transport hazard class(es) (IMDG)	 : 6.1, 8 : 6.1 (8)
ADR Transport hazard class(es) (ADR) Danger labels (ADR)	: 6.1, 8
ADR Transport hazard class(es) (ADR) Danger labels (ADR) IMDG Transport hazard class(es) (IMDG)	 : 6.1, 8 : 6.1 (8)
ADR Transport hazard class(es) (ADR) Danger labels (ADR) IMDG Transport hazard class(es) (IMDG) Danger labels (IMDG)	 : 6.1, 8 : 6.1 (8)
ADR Transport hazard class(es) (ADR) Danger labels (ADR) IMDG Transport hazard class(es) (IMDG)	 : 6.1, 8 : 6.1 (8)

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Transport hazard class(es) (ADN)	: 6.1 (8)
Danger labels (ADN)	: 6.1, 8
	, -
RID	
Transport hazard class(es) (RID)	: 6.1 (8)
Danger labels (RID)	: 6.1, 8
	. 0.1, 0
14.4. Packing group	
Packing group (ADR)	:1
Packing group (IMDG)	:1
Packing group (IATA)	: Not applicable
Packing group (ADN)	:1
Packing group (RID)	:1
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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)	: TC1
Special provisions (ADR)	: 354
Limited quantities (ADR)	: 0
Excepted quantities (ADR)	: E0
Packing instructions (ADR)	: P602
Mixed packing provisions (ADR)	: MP8, MP17
Portable tank and bulk container instructions (ADR)	: T20
Portable tank and bulk container special provisions (ADR)	: TP2
Tank code (ADR)	: L10CH
Tank special provisions (ADR)	: TU14, TU15, TE19, TE21
Vehicle for tank carriage	: AT
Transport category (ADR)	• 1
Transport category (ADR)	: 1 · CV1 CV13 CV28
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV1, CV13, CV28
Special provisions for carriage - Loading,	: CV1, CV13, CV28 : S9, S14

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Orange plates	668
	1752
Tunnel restriction code (ADR)	: C/D
EAC code	: 2XE
APP code	: B
- Transport by sea	
Special provisions (IMDG)	: 354
Packing instructions (IMDG)	: P602
Tank instructions (IMDG)	: T20
Tank special provisions (IMDG)	: TP2, TP13, TP35
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-B
Stowage category (IMDG)	: D
Stowage and handling (IMDG)	: SW2
Properties and observations (IMDG)	: Colourless liquid, with extremely irritating odour, causing tears. Reacts violently with
	water, evolving hydrogen chloride, an irritating and corrosive gas apparent as white fumes. In the presence of moisture, highly corrosive to most metals. Highly toxic if swallowed, by skin contact or by inhalation. Causes burns to skin, eyes and mucous membranes.
MFAG-No	: 156
	. 100
- Air transport	
PCA Limited quantities (IATA)	: Forbidden
PCA limited quantity max net quantity (IATA)	: Forbidden
PCA packing instructions (IATA)	: Forbidden
PCA max net quantity (IATA)	: Forbidden
CAO packing instructions (IATA)	: Forbidden
CAO max net quantity (IATA)	: Forbidden
Special provisions (IATA)	: A2
ERG code (IATA)	: 6Ci
- Inland waterway transport	
Classification code (ADN)	: TC1
Special provisions (ADN)	: 354, 802
Limited quantities (ADN)	: 0
Excepted quantities (ADN)	: E0
Equipment required (ADN)	: PP, EP, TOX, A
Ventilation (ADN)	: VE02
Number of blue cones/lights (ADN)	: 2
- Rail transport	
Classification code (RID)	: TC1
Special provisions (RID)	: 354
Limited quantities (RID)	: 0
Excepted quantities (RID)	: E0
Packing instructions (RID)	: P602
Mixed packing provisions (RID)	: MP8, MP17
Portable tank and bulk container instructions (RID)	: T20
Portable tank and bulk container special provisions (RID)	: TP2
Tank codes for RID tanks (RID)	: L10CH
Special provisions for RID tanks (RID)	: TU14, TU15, TU38, TE21, TE22

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Transport category (RID)	: 1
Special provisions for carriage - Loading, unloading and handling (RID)	: CW13, CW28, CW31
Hazard identification number (RID)	: 668

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

CHLOROACETYL CHLORIDE FOR SYNTHESIS is not on the REACH Candidate List CHLOROACETYL CHLORIDE FOR SYNTHESIS is not on the REACH Annex XIV List

15.1.2. National regulations

Germany

Reference to AwSV	: Water hazard class (WGK) 3, Highly hazardous to water (Classification according to AwSV; ID No. 2130)
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	: The substance is not listed

Denmark

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

No additional information available

SECTION 16: Other information

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

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
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H331	Toxic if inhaled.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
EUH014	Reacts violently with water.
EUH071	Corrosive to the respiratory tract.
R14	Reacts violently with water
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed
R35	Causes severe burns
R48/23	Toxic: danger of serious damage to health by prolonged exposure through inhalation
R50	Very toxic to aquatic organisms
С	Corrosive
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.