CHLOROACETIC ACID FOR SYNTHESIS MSDS



CAS-No.: 79-11-8 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.	: 607-003-00-1	
EC-No.	: 201-178-4	
CAS-No.	: 79-11-8	
Product code	: 02729	
Chemical structure	O U	
	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

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 numberEmergency 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] Acute toxicity (oral), H301 Category 3 Acute toxicity (dermal), H311 Category 3 Acute toxicity (inhal.), H331 Category 3 Skin corrosion/irritation, H314 Category 1B Hazardous to the aquatic H400 environment — Acute

Hazard, Category 1 www.Labogens.com

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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 C; R34 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) N	lo. 1272/2008 [CLP]	
Hazard pictograms (CLP)		
	GHS05 GHS06 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. H400 - Very toxic to aquatic life. 	
Precautionary statements (CLP)	 P261 - Avoid breathing vapours, spray, 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 	

Other hazards 2.3.

No additional information available

SECTION 3: Composition/information on ingredients			
: CHLOROACETIC ACID For Synthesis			
: 79-11-8			
: 201-178-4			
: 607-003-00-1			

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

Safety Data Sheet

3.2. Mixtures

Not applicable

SECTIO	N 4: First aid measures			
4.1. Description of first aid measures				
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 e	effe	ects, both acute and delayed	
Sympton	ms/effects	:	Causes severe skin burns and eye damage.	
Symptor	ms/effects after skin contact	:	Repeated exposure to this material can result in absorption through skin causing significant health hazard. Toxic in contact with skin.	
Symptor	ms/effects 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	lic	al attention and special treatment needed	
No addi	tional information available			
SECTIO	N 5: Firefighting measures			
= 4				
5.1.	Extinguishing media			
	extinguishing media		Carbon dioxide. Dry powder. Foam. Water spray.	
Unsuital	ble extinguishing media	:	Do not use a heavy water stream.	
5.2.	Special hazards arising from the	e si	ubstance or mixture	
No addi	tional information available			
5.3.	Advice for firefighters			
Protection	on during firefighting	:	Do not enter fire area without proper protective equipment, including respiratory protection.	
SECTIO	N 6: Accidental release measure	s		
0.4	Demonstrations and a disc			
6.1.	Personal precautions, protective	e e	quipment and emergency procedures	
6.1.1.	For non-emergency personnel			
Emerge	ncy procedures	:	Evacuate unnecessary personnel.	
6.1.2.	For emergency responders			
Protectiv	ve equipment	:	Use personal protective equipment as required.	
	ncy procedures		Ventilate area.	
		•		
6.2.	Environmental precautions			
Very tox	tic to aquatic life.			
6.3.	Methods and material for contain	nm	nent and cleaning up	
Methods	s for cleaning up	:	Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. On land, sweep or shovel into suitable containers.	
6.4.	Reference to other sections			

No additional information available

CHLOROACETIC ACID For Synthesis Safety Data Sheet

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.
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	: Comply with applicable regulations.
Storage conditions	: Store in a well-ventilated place. Keep container tightly closed.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/person	al protection
8.1. Control parameters	
No additional information available	

8.2. Exposure controls	
Hand protection	: Protective gloves
Eye protection	: Chemical goggles or face shield
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: [In case of inadequate ventilation] wear respiratory protection.
SECTION 9: Physical and chemical prop	perties
9.1. Information on basic physical a	nd chemical properties
Physical state	: Solid
Molecular mass	: 94.5 g/mol
Colour	: White crystalline.
Odour	: penetrating, burning odor.
Odour threshold	: No data available
pH	: < 1 at 800 g/l at 20 °C
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 60 - 63 °C
Freezing point	: No data available
Boiling point	: 189 °C
Flash point	: 126 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
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Vapour pressure	: 0.2 hPa at 20 °C
Relative vapour density at 20 °C	: 3.26
Relative density	: No data available
Density Solubility	: 1.58 g/cm³ : Water: Very soluble in water
Log Pow	: 0.2
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: ≥ 0.08 vol %
 Stable under normal conditions. 10.3. Possibility of hazardous real No additional information available 10.4. Conditions to avoid 	actions
Air contact. Moisture.	
10.5.Incompatible materialsNo additional information available	
10.6. Hazardous decomposition Thermal decomposition generates : Co	-
SECTION 11: Toxicological information	tion
11.1. Information on toxicologica	al effects
Acute toxicity	: Oral: Toxic if swallowed. Dermal: Toxic in contact with skin. Inhalation: Toxic if inhaled.
Skin corrosion/irritation	: Causes severe skin burns and eye damage. pH: < 1 at 800 g/l at 20 °C
Serious eye damage/irritation	: Serious eye damage, category 1, implicit

Safety Data Sheet

Reproductive toxicity STOT-single exposure	: Not classified : Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

and sy	symptoms		
SECT	FION 12: Ecological information		
12.1.	Toxicity		

: Toxic if swallowed. Toxic in contact with skin.

Ecology - water

: Very toxic to aquatic life.

12.2. Persistence and degradability

Potential adverse human health effects

No additional information available

12.3. Bioaccumulative potential		
CHLOROACETIC ACID For Synthesis (7	9-11-8)	
Log Pow	0.2	

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	
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.
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)	: 1751	
UN-No. (IMDG)	: 1751	
UN-No. (IATA)	: 1751	

Safety Data Sheet	•
UN-No. (ADN)	: 1751
UN-No. (RID)	: 1751
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: CHLOROACETIC ACID, SOLID
Proper Shipping Name (IMDG)	: CHLOROACETIC ACID, SOLID
Proper Shipping Name (IATA)	: Chloroacetic acid, solid
Proper Shipping Name (ADN)	: CHLOROACETIC ACID, SOLID
Proper Shipping Name (RID)	: CHLOROACETIC ACID, SOLID
Transport document description (ADR)	: UN 1751 CHLOROACETIC ACID, SOLID, 6.1 (8), II, (D/E), ENVIRONMENTALLY HAZARDOUS
Transport document description (IMDG)	: UN 1751 CHLOROACETIC ACID, SOLID, 6.1 (8), II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
Transport document description (IATA)	: UN 1751 Chloroacetic acid, solid, 6.1, II, ENVIRONMENTALLY HAZARDOUS
Transport document description (ADN)	: UN 1751 CHLOROACETIC ACID, SOLID, 6.1 (8), II, ENVIRONMENTALLY HAZARDOUS
Transport document description (RID)	: UN 1751 CHLOROACETIC ACID, SOLID, 6.1 (8), II, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: 6.1 (8)
Danger labels (ADR)	: 6.1, 8
IMDG	
Transport hazard class(es) (IMDG)	: 6.1 (8)
Danger labels (IMDG)	: 6.1, 8
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: 6.1 (8)
Hazard labels (IATA)	: 6.1, 8
ADN	
Transport hazard class(es) (ADN)	: 6.1 (8)
Denser Johala (ADNI)	

: 6.1, 8

Danger labels (ADN)

Safety Data Sheet



RID

Transport hazard class(es) (RID) Danger labels (RID)





14.4. Packing group		
Packing group (ADR)	: 11	
Packing group (IMDG)	: 11	
Packing group (IATA)	: 11	
Packing group (ADN)	: 11	
Packing group (RID)	: 11	
14.5. Environmental hazards		
Dangerous for the environment	: Yes	
Marine pollutant	: Yes	

nollutant		
e pollutant	·	

o supplementary information available
C

14.6. Special precautions for user		
- Overland transport		
Classification code (ADR)	:	TC2
Limited quantities (ADR)	:	500g
Excepted quantities (ADR)	:	E4
Packing instructions (ADR)	:	P002, IBC08
Special packing provisions (ADR)	:	B4
Mixed packing provisions (ADR)	:	MP10
Portable tank and bulk container instructions (ADR)	:	Т3
Portable tank and bulk container special provisions (ADR)	:	TP33
Tank code (ADR)	:	SGAH
Tank special provisions (ADR)	:	TU15, TE19
Vehicle for tank carriage	:	AT
Transport category (ADR)	:	2
Special provisions for carriage - Packages (ADR)	:	V11
Special provisions for carriage - Loading, unloading and handling (ADR)	:	CV13, CV28
Special provisions for carriage - Operation (ADR)	:	S9, S19
Hazard identification number (Kemler No.)	:	68
Orange plates	:	68
		1751
		1/31

CHLOROACETIC ACID For Synthesis Safety Data Sheet

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Funnel restriction code (ADR)	: D/E
EAC code	: 2X
Transport by sea	
Packing instructions (IMDG)	: P002
	: IBC08
	: B21, B4
,	
Fank instructions (IMDG)	: T3
Fank special provisions (IMDG)	: TP33
(- /	: F-A
(10)	: S-B
Stowage category (IMDG)	: C
Stowage and handling (IMDG)	: SW2
Properties and observations (IMDG)	: Colourless, very deliquescent crystals. Melting point may be as low as 50°C. In the presence of moisture, corrosive to most metals. Toxic if swallowed, by skin contact or by dust inhalation. Causes burns to skin, eyes and mucous membranes.
MFAG-No	: 153
Air transport	
PCA Excepted quantities (IATA)	: E4
PCA Limited quantities (IATA)	: Y644
PCA limited quantity max net quantity	: 1kg
IATA)	· ···ə
PCA packing instructions (IATA)	: 668
PCA max net quantity (IATA)	: 15kg
CAO packing instructions (IATA)	: 675
CAO max net quantity (IATA)	: 50kg
ERG code (IATA)	: 6C
Inland waterway transport	
Classification code (ADN)	: TC2
Special provisions (ADN)	: 802
Limited quantities (ADN)	: 500 g
Excepted quantities (ADN)	: 500 g : E4
,	
Equipment required (ADN)	: PP, EP
Number of blue cones/lights (ADN)	: 2
Rail transport	
Classification code (RID)	: TC2
Excepted quantities (RID)	: E4
Packing instructions (RID)	: P002, IBC08
Special packing provisions (RID)	: B4
Mixed packing provisions (RID)	: MP10
Portable tank and bulk container nstructions (RID)	: T3
Portable tank and bulk container special provisions (RID)	: TP33
Fank codes for RID tanks (RID)	: SGAH
Special provisions for RID tanks (RID)	: TU15
Fransport category (RID)	: 2
Special provisions for carriage – Packages RID)	: W11
Special provisions for carriage - Loading, unloading and handling (RID)	: CW13, CW28, CW31
Colis express (express parcels) (RID)	: CE9
Hazard identification number (RID)	: 68

Safety Data Sheet

14.7. Transport	in bulk according to A	nnex II of MARPOL 73/78 and the IBC Code
Not applicable		
SECTION 15: Regu	latory information	
15.1. Safety, he	alth and environmenta	I regulations/legislation specific for the substance or mixture
15.1.1. EU-Regula	itions	
	CID For Synthesis is no	ot on the REACH Candidate List ot on the REACH Annex XIV List
15.1.2. National re	egulations	
Germany		
Reference to AwSV		: Water hazard class (WGK) 3, severe hazard to water (Classification according to AwSV; ID No. 227)
12th Ordinance Imp Immission Control A	lementing the Federal .ct - 12.BImSchV	: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)
Netherlands		
SZW-lijst van kanke	rverwekkende stoffen	: The substance is not listed
SZW-lijst van mutag	ene stoffen	: The substance is not listed
NIET-limitatieve lijst voortplanting giftige	van voor de stoffen – Borstvoeding	: The substance is not listed
NIET-limitatieve lijst voortplanting giftige Vruchtbaarheid		: The substance is not listed
NIET-limitatieve lijst voortplanting giftige	van voor de stoffen – Ontwikkeling	: The substance is not listed
Denmark		
Recommendations I	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

15.2. Chemical safety assessment

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

Safety Data Sheet

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. 1B	Skin corrosion/irritation, Category 1B	
H301	Toxic if swallowed.	
H311	Toxic in contact with skin.	
H314	Causes severe skin burns and 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	
R34	Causes burns	
R50	Very toxic to aquatic organisms	
С	Corrosive	
Ν	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