

### CAS No: MSDS

### **MATERIAL SAFETY DATA SHEET (MSDS)**

SECTION 1: Identification of the substar	nce/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixture
Product code	: : 05153
1.2. Relevant identified uses of the s	substance or mixture and uses advised against
<b>1.2.1. Relevant identified uses</b> Use of the substance/mixture	: Laboratory chemicals, Manufacture of substances
<b>1.2.2. Uses advised against</b> No additional information available	
1.3.Details of the supplier of the satLOBA CHEMIE PVT.LTD.107 Wode House Road, Jehangir Villa, Col400005 Mumbai - INDIAT +91 22 6663 6663 - F +91 22 6663 6699info@lobachemie.com- www.lobachemie.com	laba
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 Directive 67/ C; R35 Full text of R-phrases: see section 16	548/EEC or 1999/45/EC

Adverse physicochemical, human health and environmental effects No additional information available

2.2. Label elements

Labelling according to Directive 67/548/EEC or 1999/45/EC Hazard symbols



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R-phrases	: R35 - Causes severe burns
S-phrases	<ul> <li>S24 - Avoid contact with skin</li> <li>S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice</li> <li>S28 - After contact with skin, wash immediately with plenty of (to be specified by the manufacturer)</li> <li>S35 - This material and its container must be disposed of in a safe way</li> <li>S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection</li> <li>S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)</li> <li>S59 - Refer to manufacturer/supplier for information on recovery/recycling</li> </ul>

#### 2.3. **Other hazards**

No additional information available

#### 3.1. Substance

Not applicable

#### 3.2. **Mixture**

Name	Product identifier	%	Classification according to Directive 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Acetic acid	(CAS No) 64-19-7 (EC no) 200-580-7 (EC index no) 607- 002-00-6	>= 99	C; R35 R10	Skin Corr. 1A, H314 Eye Dam. 1, H318 Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332
Perchloric acid	(CAS No) 7601-90- 3 (EC no) 231-512-4 (EC index no) 017- 006-00-4	0.01 - 1	O; R8 C; R35 R5	Ox. Liq. 1, H271 Skin Corr. 1A, H314 Eye Dam. 1, H318

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

#### **SECTION 4: First aid measures**

4.1. Description of first aid measu	ires
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
First-aid measures after skin contact	<ul> <li>Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.</li> </ul>
First-aid measures after eye contact	<ul> <li>Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.</li> </ul>
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.
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4.2. Most important symptoms and effects, both acute and delayed			
Symptoms/injuries	: Causes severe skin burns and eye damage.		
4.3. Indication of any immediate med	lical 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 a heavy water stream.		
5.2. Special hazards arising from the	substance or mixture		
Fire hazard	: Flammable liquid and vapour.		
5.3. Advice for firefighters			
Protection during firefighting	: Do not attempt to take action without suitable protective equipment.		
SECTION 6: Accidental release measures	3		
6.1. Personal precautions, protective	equipment and emergency procedures		
	requipment 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	: Stop release.		
6.2. Environmental precautions			
Avoid release to the environment.			
6.3. Methods and material for contain	nment and cleaning up		
Methods for cleaning up	: Collect spillage. 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			
SECTION 7: Handling and storage			
7.1. Precautions for safe handling			
Precautions for safe handling	: Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact during pregnancy/while nursing.		
Hygiene measures	: Wash thoroughly after handling.		
7.2. Conditions for safe storage, incl	uding any incompatibilities		
Technical measures	: Comply with applicable regulations.		
Storage conditions	: Store in original container. Keep container tightly closed. Keep in fireproof place. Protect from moisture.		
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 face shield
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: Wear respiratory protection
SECTION 9: Physical and chemical prop	erties
9.1. Information on basic physical a Physical state	nd chemical properties : Liquid
Colour	: Clear Colorless.
Odour	: strong, vinegar-like.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: 0.97
Melting point	: 16.6 °C
Freezing point	: No data available
Boiling point	: 120 °C
Flash point	: 40 °C
Auto-ignition temperature	: 4270 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: 11 mm Hg at 200C
Relative vapour density at 20 °C	: 2.1
Relative density	: No data available
Density Solubility	: 1.055 g/cm³ : Water: Infinitely soluble
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	: 0.033 - 0.22 vol %

- 9.2. Other information
- No additional information available

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SECTION 10: Stability and reactivity	
10.1. Reactivity	
Thermal decomposition generates : Corrosi	ive vapours.
10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous reaction	ns
No additional information available	
10.4. Conditions to avoid	
Direct sunlight. Overheating. Open flame. H	leat. Sparks.
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition prod	ucts
Thermal decomposition generates : Corrosi	ive vapours.
SECTION 11: Toxicological information	
11.1. Information on toxicological effe	ects
Acute toxicity	: Not classified
Irritation	: Not classified
Corrosivity	: Causes severe burns.
Sensitisation	: Not classified
Repeated dose toxicity	: Not classified
Carcinogenicity	: Not classified
Mutagenicity	: Not classified
Toxicity for reproduction	: Not classified

### **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

40.5 Deputte of DDT and UDUD serves	a mant
12.5. Results of PBT and vPvB asses	Sment
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	: Dispose of contents/container to
recommendations	
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IAT	A / ADN
14.1. UN number	
UN-No. (ADR)	: 2789
UN-No. (IMDG)	: 2789
UN-No.(IATA)	: 2789
UN-No.(ADN)	: 2789
UN-No. (RID)	: 2789
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: ACETIC ACID, GLACIAL
Proper Shipping Name (IMDG)	: ACETIC ACID, GLACIAL
Proper Shipping Name (IATA)	: ACETIC ACID, GLACIAL
Proper Shipping Name (ADN)	: ACETIC ACID, GLACIAL
Proper Shipping Name (RID)	: ACETIC ACID, GLACIAL
Transport document description (ADR)	: UN 2789 ACETIC ACID, GLACIAL, 8 (3), II, (D/E)
Transport document description (IMDG)	: UN 2789 ACETIC ACID, GLACIAL, 8 (3), II
Transport document description (IATA)	: UN 2789 ACETIC ACID, GLACIAL, 8 (3), II
Transport document description (ADN)	: UN 2789 ACETIC ACID, GLACIAL, 8 (3), II
Transport document description (RID)	: UN 2789 ACETIC ACID, GLACIAL, 8 (3), II
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: 8 (3)
Danger labels (ADR)	: 8, 3
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IMDG	
Transport hazard class(es) (IMDG)	: 8 (3)
Danger labels (IMDG)	: 8,3
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Transport hazard class(es) (IATA)	: 8 (3)
Hazard labels (IATA)	: 8, 3
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ADN	
Transport hazard class(es) (ADN)	: 8 (3)
Danger labels (ADN)	: 8, 3
	: Â. A
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RID	
Transport hazard class(es) (RID)	: 8 (3)
Danger labels (RID)	: 8, 3
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	: No
Marine pollutant	: No
Other information	: No supplementary information available
14.6. Special precautions for user	
- Overland transport	
Classification code (ADR)	: CF1
Limited quantities (ADR)	: 1L
Excepted quantities (ADR)	: E2
Packing instructions (ADR)	: P001, IBC02
Mixed packing provisions (ADR)	: MP15
Portable tank and bulk container instructions (ADR)	: T7
Portable tank and bulk container special	: TP2
provisions (ADR)	
Tank code (ADR)	: L4BN
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Vehicle for tank carriage	: FL
Transport category (ADR)	: 2
Special provisions for carriage - Operation (ADR)	: S2
Hazard identification number (Kemler No.)	: 83
Orange plates	83
	2789
Tunnel restriction code (ADR)	: D/E
EAC code	: •2P
APP code	: A(fl)
- Transport by sea	
Limited quantities (IMDG)	: 1L
Excepted quantities (IMDG)	: E2
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-C
Stowage category (IMDG)	: A
MFAG-No	: 132
- Air transport	
PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y840
PCA limited quantity max net quantity (IATA)	: 0.5L
PCA packing instructions (IATA)	: 851
PCA max net quantity (IATA)	: 1L
CAO packing instructions (IATA)	: 855
CAO max net quantity (IATA) ERG code (IATA)	: 30L : 8F
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- Inland waterway transport	054
Classification code (ADN)	: CF1
Limited quantities (ADN)	: 1L : E2
Excepted quantities (ADN) Carriage permitted (ADN)	: E2 : T
Equipment required (ADN)	: PP, EP, EX, A
Ventilation (ADN)	: VF01
Number of blue cones/lights (ADN)	: 1
- Rail transport	
Classification code (RID)	: CF1
Limited quantities (RID)	: 1L
Excepted quantities (RID)	: E2
Packing instructions (RID)	: P001, IBC02
Mixed packing provisions (RID)	: MP15
Portable tank and bulk container	: T7
instructions (RID) Portable tank and bulk container special	: TP2
provisions (RID)	
Tank codes for RID tanks (RID)	: L4BN

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Transport category (RID)	:	2
Colis express (express parcels) (RID)	:	CE6
Hazard identification number (RID)	:	83

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

Contains no substances with Annex XVII restrictions Contains no REACH candidate substance

Contains no REACH Annex XIV substances.

#### 15.1.2. National regulations

#### Germany

AwSV/VwVwS Annex reference	: Water hazard class (WGK) 1, slightly hazardous to water (Classification according to AwSV, Annex 1)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)
Denmark	
Class for fire hazard	: Class II-1
Store unit	: 5 liter
Classification remarks	: R10 <h226;h290;h314>; Emergency management guidelines for the storage of flammable liquids must be followed</h226;h290;h314>
Recommendations Danish Regulation	: Young people below the age of 18 years are not allowed to use the product

#### 15.2. Chemical safety assessment

No additional information available

**SECTION 16: Other information** 

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

Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Flam. Liq. 3	Flammable liquids, Category 3	
Ox. Liq. 1	Oxidising Liquids, Category 1	
Skin Corr. 1A	Skin corrosion/irritation, Category 1A	

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H226	Flammable liquid and vapour
H271	May cause fire or explosion; strong oxidiser
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H332	Harmful if inhaled
R10	Flammable
R35	Causes severe burns
R5	Heating may cause an explosion
R8	Contact with combustible material may cause fire
С	Corrosive
0	Oxidising

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