

CAS No: MSDS

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification of the subs	tance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixture
	:
Product code	: 04836
1.2. Relevant identified uses of th	e substance or mixture and uses advised against
1.2.1. Relevant identified uses	
Use of the substance/mixture	: Laboratory chemicals, Manufacture of substances
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 66	99
info@lobachemie.com - www.lobachemi	
1.4. Emergency telephone number	: + 91 22 6663 6663 (9:00am - 6:00 pm)
Emergency number	. + 91 22 0003 0003 (9.00am - 0.00 pm)
SECTION 2: Hazards identification	
2.1. Classification of the substant	ce or mixture
Classification according to Directive	67/548/EEC or 1999/45/EC
T; R25	
Xn; R48/21/22 C; R35	

Xn; R48/21/22 C; R35 N; R51/53 Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

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2.2. Label elements	
Labelling according to Directiv	e 67/548/EEC or 1999/45/EC
Hazard symbols	
	T - Toxic C - Corrosive N - Dangerous for the environment
R-phrases	 R25 - Toxic if swallowed R35 - Causes severe burns R48/21/22 - Harmful: danger of serious damage to health by prolonged exposure in contact with skin and if swallowed R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
S-phrases	 S4 - Keep away from living quarters S24 - Avoid contact with skin S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice S28 - After contact with skin, wash immediately with plenty of (to be specified by the manufacturer) S35 - This material and its container must be disposed of in a safe way S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection S38 - In case of insufficient ventilation, wear suitable respiratory equipment S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) S57 - Use appropriate container to avoid environmental contamination S59 - Refer to manufacturer/supplier for information on recovery/recycling S60 - This material and its container must be disposed of as hazardous waste S61 - Avoid release to the environment. Refer to special instructions/safety data sheets

2.3. Other hazards

No additional information available

SECTION	SECTION 3: Composition/information on ingredients		
3.1.	Substance		
Not app	olicable		

3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Water	(CAS No) 7732-18- 5 (EC no) 231-791-2	75 - 99	Not classified	Not classified

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Name	Product identifier	%	Classification according to Directive 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Potassium hydroxide	(CAS No) 1310-58- 3 (EC no) 215-181-3 (EC index no) 019- 002-00-8	10 - 15	Xn; R22 C; R35	Skin Corr. 1A, H314 Eye Dam. 1, H318 Acute Tox. 4 (Oral), H302
Yoduro potásico	(CAS No) 7681-11- 0	5 - 10	Xn; R22 Xi; R36/38	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Skin Irrit. 2, H315
MERCURIC CHLORIDE AR 99.5%	(CAS No) 787-94-7	1 - 5	Muta.Cat.3; R68 Repr.Cat.3; R62 T+; R28 T; R48/24/25 C; R34 N; R50/53	Acute Tox. 1 (Oral), H300 Skin Corr. 1B, H314 STOT RE 1, H372 STOT SE 2, H371 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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

SECTION 4: First aid measures	
4.1. Description of first aid measu	
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	: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.
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 or doctor/physician.
First-aid measures after ingestion	: Fatal if swallowed. Rinse mouth. Immediately call a POISON CENTER or doctor/physician. Specific treatment (see on this label). Do NOT induce vomiting.
4.2. Most important symptoms and	d effects, both acute and delayed
Symptoms/injuries	: Causes severe skin burns and eye damage. Causes damage to organs through prolonged or repeated exposure.
Symptoms/injuries after inhalation	: Fatal if inhaled.
Symptoms/injuries after skin contact	: Fatal in contact with skin.
Symptoms/injuries after ingestion	: Fatal if swallowed.
4.3. Indication of any immediate m	edical 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 t	he substance or mixture
No additional information available	
5.3. Advice for firefighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment.

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SECTIO	N 6: Accidental release measures	
SECHO	n o. Accidental release measures	
6.1.	Personal precautions, protective	equipment and emergency procedures
6.1.1.	For non-emergency personnel	
Emerger	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	ic to aquatic life with long lasting eff	fects.
6.3.	Methods and material for contain	nment and cleaning up
Methods	s for cleaning up	: Clear up rapidly by scoop or vacuum.
6.4.	Reference to other sections	
No addit	tional information available	
SECTIO	N 7: Handling and storage	
7.1.	Precautions for safe handling	
	ons for safe handling	: Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact during
Tiecauli		pregnancy/while nursing. Avoid breathing dust/fume/gas/mist/vapours/spray.
Hygiene	measures	: Do not eat, drink or smoke when using this product. Wash thoroughly after handling.
7.2.	Conditions for safe storage, incl	uding any incompatibilities
Technica	al measures	: Comply with applicable regulations.
Storage	conditions	: Store in original container. Keep container tightly closed. Store in a dry place.
7.3.	Specific end use(s)	
No addit	tional information available	
SECTIO	N 8: Exposure controls/personal	protection
8.1.	Control parameters	

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	perties
SECTION 9: Physical and chemical prop 9.1. Information on basic physical a	

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Odour	: odourless.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 1050 °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	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density Solubility	: 1.15 g/cm³ : Water: Miscible in water
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

SECTION 10: Stability and reactivity	,

10.1. Reactivity

Thermal decomposition generates : Corrosive vapours.

10.2. Chemical stability

No additional information available

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

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10.6. Hazardous decomposition products

Thermal decomposition generates : Corrosive vapours.

SECTION 11: Toxicological information	
11.1. Information on toxicological eff	fects
Acute toxicity	: Toxic if swallowed.
Irritation	: Not classified
Corrosivity	: Causes severe burns.
Sensitisation	: Not classified
Repeated dose toxicity	: Harmful: danger of serious damage to health by prolonged exposure in contact with skin and if swallowed.
Carcinogenicity	: Not classified
Mutagenicity	: Not classified
Toxicity for reproduction	: Not classified
Potential adverse human health effects	: Fatal if swallowed.
and symptoms	
SECTION 12: Ecological information	
12.1. Toxicity	

Ecology - water

: Toxic to aquatic life with long lasting effects.

NESSLER'S REAGENT Persistence and degradability May cause long-term adverse effects in the environment.	12.2.	Persistence and degradability	
Persistence and degradability May cause long-term adverse effects in the environment.	NESS	LER'S REAGENT	
	Persis	stence and degradability	May cause long-term adverse effects in the environment.

12.3. Bioaccumulative potential

No additional information available

12.4.	Mobility in soil
No addit	ional information available

12.5. Results of PBT and vPvB assessment

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

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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)	: 2922
UN-No. (IMDG)	: 2922
UN-No.(IATA)	: 2922
UN-No.(ADN)	: 2922
UN-No. (RID)	: 2922
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: CORROSIVE LIQUID, TOXIC, N.O.S.
Proper Shipping Name (IMDG)	: CORROSIVE LIQUID, TOXIC, N.O.S.
Proper Shipping Name (IATA)	: CORROSIVE LIQUID, TOXIC, N.O.S.
Proper Shipping Name (ADN)	: CORROSIVE LIQUID, TOXIC, N.O.S.
Proper Shipping Name (RID)	: CORROSIVE LIQUID, TOXIC, N.O.S.
Transport document description (ADR)	: UN 2922 CORROSIVE LIQUID, TOXIC, N.O.S., 8 (6.1), II, (E), ENVIRONMENTALLY HAZARDOUS
Transport document description (IMDG)	: UN 2922 CORROSIVE LIQUID, TOXIC, N.O.S., 8 (6.1), II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
Transport document description (IATA)	: UN 2922 CORROSIVE LIQUID, TOXIC, N.O.S., 8 (6.1), II, ENVIRONMENTALLY HAZARDOUS
Transport document description (ADN)	: UN 2922 CORROSIVE LIQUID, TOXIC, N.O.S., 8 (6.1), II, ENVIRONMENTALLY HAZARDOUS
Transport document description (RID)	: UN 2922 CORROSIVE LIQUID, TOXIC, N.O.S., 8 (6.1), II, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: 8 (6.1)
Danger labels (ADR)	: 8, 6.1
IMDG	
Transport hazard class(es) (IMDG)	: 8 (6.1)
Danger labels (IMDG)	: 8, 6.1

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Transport hazard class(es) (IATA)	: 8 (6.1)
Hazard labels (IATA)	: 8, 6.1

(6.1)

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ADN

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





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

: 8 (6.1) : 8, 6.1



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
Other information	: No supplementary information available

14.6. Special precautions for user

- Overland transport	
Classification code (ADR)	: CT1
Special provision (ADR)	: 274
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 provisions (ADR)	: TP2
Tank code (ADR)	: L4BN
Vehicle for tank carriage	: AT
Transport category (ADR)	: 2
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV13, CV28
Hazard identification number (Kemler No.)	: 86

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Orange plates	86 2922
Tunnel restriction code (ADR)	: E
EAC code	: 2X
APP code	: B
- Transport by sea	
Special provision (IMDG)	: 274
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-A
EmS-No. (Spillage)	: S-B
Stowage category (IMDG)	: B
Stowage and handling (IMDG) MFAG-No	: SW2
MFAG-NO	: 154
- Air transport	
PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y840
PCA limited quantity max net quantity	: 0.5L
(IATA)	: 851
PCA packing instructions (IATA) PCA max net quantity (IATA)	: 1L
CAO packing instructions (IATA)	: 855
CAO max net quantity (IATA)	: 30L
Special provision (IATA)	: A3
ERG code (IATA)	: 8P
	-
- Inland waterway transport	. 074
Classification code (ADN)	: CT1
Special provisions (ADN) Limited quantities (ADN)	: 274, 802 : 1 L
Excepted quantities (ADN)	: E2
Carriage permitted (ADN)	: L2 : T
Equipment required (ADN)	: PP, EP, TOX, A
Ventilation (ADN)	: VF02
Number of blue cones/lights (ADN)	: 2
- Rail transport	. 074
Classification code (RID)	: CT1 : 274
Special provision (RID)	. 274 : 1L
Limited quantities (RID) Excepted quantities (RID)	: E2
Packing instructions (RID)	. E2 : P001, IBC02
Mixed packing provisions (RID)	: MP15
Portable tank and bulk container	: Mi 13 : 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
Special provisions for carriage – Loading and unloading (RID)	: CW13, CW28
Colis express (express parcels) (RID)	: CE6
Hazard identification number (RID)	: 86

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) 3, strongly 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. BImSchV (Hazardous Incident Ordinance)
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
		The requirements from the Danish Working Environment Authorities regarding work

with carcinogens must be followed during use and disposal

15.2. Chemical safety assessment No additional information available

SECTION 16: Other information

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

Acute Tox. 1 (Oral)	Acute toxicity (oral), Category 1
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1

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Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
STOT SE 2	Specific target organ toxicity — Single exposure, Category 2
H300	Fatal if swallowed
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H371	May cause damage to organs
H372	Causes damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
R22	Harmful if swallowed
R25	Toxic if swallowed
R28	Very toxic if swallowed
R34	Causes burns
R35	Causes severe burns
R36/38	Irritating to eyes and skin
R48/21/22	Harmful: danger of serious damage to health by prolonged exposure in contact with skin and if swallowed
R48/24/25	Toxic: danger of serious damage to health by prolonged exposure in contact with skin and if swallowed
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R62	Possible risk of impaired fertility
R68	Possible risk of irreversible effects
С	Corrosive
N	Dangerous for the environment
Т	Toxic
T+	Very toxic
Xi	Irritant
Xn	Harmful

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