Material Safety Data Sheet	MOLYCHEM		
BARIUM HYDROXIDE (OCTAHYDRATE) LR	VERSION : 03 DATE OF ISSUE :31-01-2022 SUPERSEDES : 02		
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1. Identification of the substance/mixture and	d of the company/undertaking		
1.1. Product identifier			
Trade name : BAR	IUM HYDROXIDE LR OCTAHYDRATE LR		
Product code : 1256			
-	RIUM HYDROXIDE LR (OCTAHYDRATE)		
_	0-71-6		
1.2. Relevant identified uses of the substance Identified uses : Labo	ratory chemicals, Manufacture of substances		
1.3. Details of the supplier of the safety data	•		
	YCHEM		
1 0	: 78/80 Babu Genu Road, Souri Bldg., 2nd Floor,		
	ai – 400 002 (INDIA)		
Tel: +9	91 22 4066 8111, 2205 7772 .		
	91 22 22034442.		
	: <u>info@molychem.net</u>		
	Works: Plot No. B/9, Badlapur M.I.D.C., OPP. Shobhavat		
	Co.,Kulgaon, Badlapur (E), DistThane-421 503		
1.4. Emergency telephone number Emergency number :+91	22 4066 8111 (10:00am - 6:00 pm)		
Emergency number . • 71	22 4000 0111 (10.00am - 0.00 pm)		
2. Hazards identification -DSD			
2.1. Classification of the substance or mixtur	'e		
Classification EC 67/548 or EC 1999/45			
Classification : Xn; R20			
C; R34			
Hazard Class and Category Code(s), Reg			
Acute toxicity, Oral - Category 4 - Warning	n - Category 4 - Warning (CLP : Acute Tox. 4) H332		
Skin corrosion - Category 1B - Danger (CI			
2.2. Label elements			
Labelling EC 67/548 or EC 1999/45			
Symbol(s) : C : Corros	ive		
T: Toxic			
R Phrase(s) :			
R20 : Harmful by inhalation	on.		
R22 : Harmful if swallowe	ed.		

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R34 :	Causes burns.	
S Phrase(s) :		
S26 :		eyes, rinse immediately with plenty of water and seek
	medical advice.	
S36 :	Wear suitable protectiv	ve clothing.
S37 :	Wear suitable gloves.	
S39 :	Wear eye/face protection	
S45 :	In case of accident or it	f you feel unwell, seek medical advice immediately
Hazard pictogra	nms	
Signal words :	Danger	
Hazard stateme	nts :	
H314 :	Causes severe skin burns	and eye damage.
H302 :	Harmful if swallowed.	
H332 :	Harmful if inhaled.	
Precautionary s	tatements	
• Prevention :		
P280:	1	rotective gloves, protective clothing, eye protection,
P271:	face pro	ly outdoors or in a well-ventilated area.
P260:		breathe dust, fume, gas, mist, vapours, spray.
P264:		horoughly after handling.
P204. P270:		eat, drink or smoke when using this product.
	Do not	cal, utilik of smoke when using this product.
• Response : P301+P330+P331	. IF OW	ALLOWED Bings mouth Do NOT induss vomiting
		ALLOWED : Rinse mouth. Do NOT induce vomiting.
P305+P351+P338		YES : Rinse cautiously with water for several minutes.
P304+P340:	IF INH	re contact lenses, if present and easy to do. Continue rinsing ALED : Remove to fresh air and keep at rest in a position rtable for breathing.
P303+P361+P353	B: IF ON	SKIN (or hair) : Remove immediately all contaminated g. Rinse skin with water/shower.
P363:		contaminated clothing before reuse.
• Storage :		
P405:	Store	locked up.
		1

• Disposal considerations :

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P501:

Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3. Composition/information on ingredients

3.1 Substances Formula	$: Ba(OH)_2 \cdot 8H_2O$	
Molecular weight	: 315.48 g/mol	
CAS-No.	: 12230-71-6	
EC-No.	: 241-234-5	
Component	Classification	Concentration
Barium hydroxide		
CAS-No. 12230-71-6	Acute Tox. 4; Skin Corr.	<= 100 %
EC-No. 241-234-5	1B; H332, H302, H314	

4. First aid measures

4.1. Description of first aid measures

General advice

First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance. **If inhaled**

After inhalation: fresh air. Immediately call in physician. If breathing stops: immediately apply artificial respiration, if necessary also oxygen.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.

In case of eye contact

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

If swallowed

After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of perforation). Call a physician immediately. Do not attempt to neutralise.

4.2. Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3. Indication of any immediate medical attention and special treatment needed

Material Safety Data SheetImage: Constraint of the second state of the second sta

No data available

5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given..

5.2. Special hazards arising from the substance or mixture

- Barium oxide
- Not combustible.

Ambient fire may liberate hazardous vapours.

5.3. Advice for fire-fighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

6.2. Environmental precautions

Do not let product enter drains.

6.3. Methods and material for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4. Reference to other sections For disposal see section 13.

7. Handling and storage

7.1. Precautions for safe handling Advice on safe handling Work under hood. Do not inhale substance/mixture. Hygiene measures Immediately change contaminated clothing. Apply preventive skin protection.

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Wash hands and face after	vorking with gut	astanco	
For precautions see section	•	stance.	
7.2. Conditions for safe storag		, incompatibilities	
Storage conditions	c, menuting any	incompatibilities	
8	n a well-ventilate	ed place. Keep locked up or in an area accessible	
only to qualified or authoriz		en place. Reep loeked up of in an area accessione	
Recommended storage tem		luct label.	
Storage class	- ratale bee proc		
8	6.1B: Non-comb	ustible, acute toxic Cat. 1 and 2 / very toxic	
hazardous materials			
7.3. Specific end use(s)			
	ned in section 1.	2 no other specific uses are stipulated	
- T			
8. Exposure controls/personal	protection		
8.1. Exposure controls			
-	: Avoid all unne	ecessary exposure.	
Respiratory protection	• •		
Hand protection	: Wear protectiv	ve gloves.	
Skin protection	: Wear suitable protective clothing.		
Eye protection	: Chemical goggles or safety glasses.		
Others	: When using, do not eat, drink or smoke.		
8.2. Control parameters			
Occupational Exposure Lim	its : No data ava	ilable.	
9. Physical and chemical prop			
9.1. Information on basic phys		cal properties	
a) Physical state	solid		
b) Color	white		
c) Odor		available	
d) Melting	Melting	point/range: 78 °C	
point/freezing point	.	111	
e) Initial boiling	No data	available	
point and boiling range	771	1	
f) Flammability (solid, gas)	1	duct is not flammable.	
g) Upper/lower	No data	a vailable	
flammability or			
explosive limits h) Flash point	NT - 4	-liesh1e	
	INOT ap	plicable	
i) Autoignition temperature		a available	

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j) Decomposition temperature	No data a	wailable	
k) pH		0 g/l at 20 °C	
l) Viscosity	Viscosity	y, kinematic: No data available	
	Viscosity	y, dynamic: No data available	
m) Water	solubility	y soluble	
n) Partition coefficient:	No data a	vailable	
n-octanol/water			
o) Vapor pressure	No data a	vailable	
p) Density	2.180 g/c	m3	
Relative density	No data available		
q) Relative vapor density	No data available		
r) Particle characteristics	No data a	vailable	
s) Explosive properties	No data available		
t) Oxidizing properties	none		
9.2. Other information			
Bulk density	ca.900 - 1	1.100 kg/m3	
10. Stability and reactivity			
10.1. Reactivity			
No data available			
10.2. Chemical stability			
Č Č	under stand	ard ambient conditions (room temperature).	
10.3. Possibility of hazardous reacti		and amotent conditions (room temperature).	
Exothermic reaction with:	0115		
hydrogen sulphide			
acids			
10.4. Conditions to avoid			
no information available			
10.5. Incompatible materials			
Light metals			
10.6. Hazardous decomposition pro	ducts		
In the event of fire: see section 5			
1. Toxicological information	CC 4		
11.1. Information on toxicological e		· C 11 1	
Acute toxicity (oral)		if swallowed.	
• • •	: Not class		
Acute toxicity (inhalation)	: Harmtul	it inhaled.	
	1 1 1077		

: Causes severe skin burns.

Skin corrosion/irritation

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Serious eye damage/irritation	· A course	ed to cause serious eye damag	
Respiratory or skin sensitization	: Not cla		
Germ cell mutagenicity	: Not cla		
Carcinogenicity	: Not cla		
Reproductive toxicity	: Not cla		
STOT-single exposure	: Not clas		
STOT-repeated exposure	: Not clas		
Aspiration hazard	: Not clas		
Viscosity, kinematic	Not app		
Potential adverse human health	11		
effects and symptoms			
2. Ecological information			
12.1. Toxicity			
No data available			
12.2. Persistence - degradability			
No data available			
2.3. Bioaccumulative potential			
No data available			
2.4. Mobility in soil			
No data available			
2.5. Results of PBT and vPvB assessr	nent		
This substance/mixture contains no	o compon	ents considered to be either persistent, bioaccumulative and	
toxic (PBT), or very persistent and	d very bio	accumulative (vPvB) at levels of 0.1% or higher.	
2.6. Endocrine disrupting properties			
Product:			
Assessment		stance/mixture does not contain components considered to docrine disrupting properties according to REACH Article	
	· · ·	Commission Delegated regulation (EU) 2017/2100 or ssion Regulation (EU) 2018/605 at levels of 0.1% or higher	
2.7 Other adverse effects			
No data available			
13. Disposal considerations			
3.1. Waste treatment methods			
No data available			
4. Transport information			
4.1. UN number			

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ADR/RID: 3262	IMDG: 326	2 IATA: 3262
14.2. UN proper shipping name		
ADR/RID	: CORROS	IVE SOLID, TOXIC, N.O.S. (Barium hydroxide)
IMDG	: CORROS	IVE SOLID, TOXIC, N.O.S. (Barium hydroxide)
IATA	: CORROS	IVE SOLID, TOXIC, N.O.S. (Barium hydroxide)
14.3. Transport hazard class(es)		· · · · · · · · · · · · · · · · · · ·
ADR/RID: 8	IMDG: 8	IATA: 8

IATA: II

IATA: no

15. Regulatory information

Further information

14.5 Environmental hazards

14.6 Special precautions for user Tunnel restriction code

14.4 Packaging group ADR/RID: II

ADR/RID: no

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture This material safety data sheet complies with the requirements of Regulation (EC) No.1907/2006. Authorisations and/or restrictions on use Other regulations

Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable.

IMDG Marine pollutant: no

Take note of Dir 94/33/EC on the protection of young people at work.

IMDG: II

: No data available

: (E)

15.2. Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

16. Other information

Abbreviations and acronyms :

PBT: persistent, bioaccumulative and toxic.

vPvB: very persistent and very bioaccumulative

Sources of key data used : REGULATION (EC) No 1272/2008 OF THE EUROPEAN

PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification,

labelling and packaging of substances and mixtures, amending and repealing Directives

67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

Further information : None.

In accordance with REACH Regulation (CE) Nº 1907/2006 and with CLP Regulation

(CE) Nº 1272/2008 DISCLAIMER OF LIABILITY The information in this SDS was

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<u>End of document</u> Prepared by: MOLYCHEM (INDIA)

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