## BARIUM CHLORIDE 0.05M (0.1N) STANDARDIZED SOLUTION TRACEABLE TO NIST MSDS



### 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	: R600A	
1.2. Relevant identified uses of the	ne 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		
<b>1.3.</b> Details of the supplier of the	safety data sheet	
LOBA CHEMIE PVT.LTD. 107 Wode House Road, Jehangir Villa,	Calaba	
400005 Mumbai - INDIA	Colaba	
T +91 22 6663 6663 - F +91 22 6663 6699		
info@lobachemie.com - www.lobachem	<u>ie.com</u>	
1.4. Emergency telephone number	ar an	
Emergency number	: + 91 22 6663 6663 (9:00am - 6:00 pm)	
0,		
SECTION 2: Hazards identification		
2.1. Classification of the substan	ce or mixture	
Classification according to Regulation (EC) No. 1272/2008 [CLP]		
Not classified		

Not classified

#### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] No labelling applicable

**Product identifier** 

(CAS-No.) 7732-18-5

(CAS-No.) 10326-27-9

(EC-No.) 231-791-2

%

99 - 100

1.22

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Inhalation),

Not classified

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#### 2.3. Other hazards

3.1.

3.2.

Name

WATER AR

Not applicable

No additional information available

**Substances** 

**Mixtures** 

**SECTION 3: Composition/information on ingredients** 

BARIUM CHLORIDE DIHYDRATE AR/ACS

Full text of H-statements: see section 16			
SECTION 4: First aid measures			
4.1. Description of first aid measu	Ires		
First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact	<ul> <li>Remove person to fresh air and keep comfortable for breathing.</li> <li>Wash skin with plenty of water.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing.</li> </ul>		
First-aid measures after ingestion	: Rinse mouth out with water.		
4.2.         Most important symptoms and effects, both acute and delayed           No additional information available			
4.3. Indication of any immediate medical attention and special treatment needed			
Treat symptomatically.			
SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media Unsuitable extinguishing media	<ul><li>dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).</li><li>Do not use a heavy water stream.</li></ul>		
5.2. Special hazards arising from	the 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		

Protection during firefighting

: Do not attempt to take action without suitable protective equipment.

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SECTION 6: Accidental release mea	asures
6.1. Personal precautions, prote	ective equipment and emergency procedures
6.1.1. For non-emergency person	inel
Emergency procedures	: Avoid contact with skin, eyes and clothing.
6.1.2. For emergency responders	
Protective equipment	: Use personal protective equipment as required.
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for c	ontainment and cleaning up
Methods for cleaning up	: Clean up immediately by sweeping or vacuum.
6.4. Reference to other section	
	5
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handli	na
Precautions for safe handling	: Avoid contact with skin and eyes.
Hygiene measures	: 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	e, including any incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep container tightly closed.
7.3. Specific end use(s)	
No additional information available	
<b>SECTION 8: Exposure controls/pers</b>	sonal protection
9.1 Control parameters	
8.1. Control parameters	
No additional information available	

8.2. Exposure controls		
Hand protection	: protective gloves	
Eye protection	: Chemical goggles or safety glasses	
Skin and body protection	: Wear suitable protective clothing	
Respiratory protection	: Wear respiratory protection.	
SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
Physical state	: Liquid	
Colour	: Clear colourless.	
Odour	: No data available	

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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	: No data available
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
Solubility	: No data available
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	lo additional information available		
SECTIC	N 10: Stability and reactivity		
10.1.	Reactivity		
No addi	tional information available		
10.2.	Chemical stability		
Stable u	nder normal conditions.		
10.3.	Possibility of hazardous reactions		
No addi	tional information available		
10.4.	Conditions to avoid		
Direct s	unlight.		
10.5.	Incompatible materials		
No addi	tional information available		
10.6.	Hazardous decomposition products		
No addi	tional information available		

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#### **SECTION 11: Toxicological information**

**SECTION 12: Ecological information** 

11.1. Information on toxicological effects			
Acute toxicity	: Not classified		
Skin corrosion/irritation	: Not classified		
Serious eye damage/irritation	: Not classified		
Respiratory or skin sensitisation	: Not classified		
Germ cell mutagenicity	: Not classified		
Carcinogenicity	: Not classified		
Reproductive toxicity	: Not classified		
STOT-single exposure	: Not classified		
STOT-repeated exposure	: Not classified		
Aspiration hazard	: Not classified		

12.1.	Toxicity
No addi	tional information available
12.2.	Persistence and degradability
No addi	tional information available
12.3.	Bioaccumulative potential
No addi	tional information available
12.4.	Mobility in soil
No addi	tional information available
12.5.	Results of PBT and vPvB assessment
No addi	tional information available
12.6.	Other adverse effects
No addi	tional information available

**BARIUM CHLORIDE 0.05M (0.1N) STANDARDIZED SOLUTION** traceable to NIST Safety Data Sheet **SECTION 13: Disposal considerations** 13.1. Waste treatment methods No additional information available **SECTION 14: Transport information** In accordance with ADR / RID / IMDG / IATA / ADN **UN number** 14.1. UN-No. (ADR) : Not applicable : Not applicable UN-No. (IMDG) UN-No. (IATA) : Not applicable UN-No. (ADN) : Not applicable UN-No. (RID) : Not applicable UN proper shipping name 14.2. Proper Shipping Name (ADR) : Not applicable Proper Shipping Name (IMDG) : Not applicable Proper Shipping Name (IATA) : Not applicable Proper Shipping Name (ADN) : Not applicable : Not applicable Proper Shipping Name (RID) 14.3. Transport hazard class(es) ADR Transport hazard class(es) (ADR) : Not applicable

IMDG Transport hazard class(es) (IMDG) : Not applicable

IATA Transport hazard class(es) (IATA)

ADN

Transport hazard class(es) (ADN)

RID

Transport hazard class(es) (RID) : Not applicable

# **14.4.**Packing groupPacking group (ADR): Not applicablePacking group (IMDG): Not applicablePacking group (IATA): Not applicablePacking group (ADN): Not applicablePacking group (RID): Not applicable

14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available

: Not applicable

: Not applicable

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14.6. Special precautions for user

- Overland transport

Not applicable

- Transport by sea Not applicable

- Air transport

Not applicable

- Inland waterway transport Not applicable

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- Rail transport

Not applicable

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 REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

#### 15.1.2. National regulations

#### Germany

Reference to AwSV	:	Water hazard class (WGK) 3, Highly 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)
Netherlands		
SZW-lijst van kankerverwekkende stoffen	:	None of the components are listed
SZW-lijst van mutagene stoffen	:	None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	:	None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	:	None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	:	None of the components are listed

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#### 15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

#### Full text of H- and EUH-statements:

Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4	
H301	Toxic if swallowed.	
H332	Harmful if inhaled.	

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.