BUFFER STANDARD SOLUTION (CITRIC ACID/SODIUM HYDROXIDE) PH 6.00 +/- 0.02 AT 20°C TRACEABLE TO NIST 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	: B002P	
1.2. Relevant identified uses of th	e 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	
LOBA CHEMIE PVT.LTD. 107 Wode House Road, Jehangir Villa, Colaba 400005 Mumbai - INDIA		
T +91 22 6663 6663 - F +91 22 6663 66 info@lobachemie.com - www.lobachemi		
1.4. Emergency telephone number	er de la companya de	
Emergency number	:+91 22 6663 6663 (9:00am - 6:00 pm)	
SECTION 2: Hazards identification		
2.1. Classification of the substant	ce or mixture	
Classification according to Regulation	n (EC) No. 1272/2008 [CLP]	
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

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2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1.	Substances			
Not app	olicable			
0.0				
3.2.	Mixtures			

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
WATER AR	(CAS-No.) 7732-18-5 (EC-No.) 231-791-2	98 - 100	Not classified
CITRIC ACID MONOHYDRATE AR/ACS	(CAS-No.) 5949-29-1	1 - 1.5	Eye Irrit. 2, H319
Sodium hydroxide	(CAS-No.) 1310-73-2 (EC-No.) 215-185-5 (EC Index-No.) 011-002-00-6	>= 0.55	Skin Corr. 1A, H314
HYDROCHLORIC ACID AR	(CAS-No.) 7647-01-0 (EC-No.) 231-595-7 (EC Index-No.) 017-002-01-X	0.1 - 0.15	Skin Corr. 1B, H314 STOT SE 3, H335
SODIUM AZIDE AR	(CAS-No.) 26628-22-8 (EC-No.) 247-852-1 (EC Index-No.) 011-004-00-7	0.05	Acute Tox. 1 (Oral), H300 Aquatic Chronic 1, H410

Full text of H-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measu	res
First-aid measures after inhalation	 Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or a doctor.
First-aid measures after skin contact	: Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth out with water. If you feel unwell, seek medical advice.
First-aid measures after ingestion	: Rinse mouth out with water. If you feel unwell, seek medical advice.

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.

Safety Data Sheet

SECTION 5: Firefig	ghting measures	
E.4. Extinensia	hine media	
	hing media	de stander de la bel accistant form, andres disuida (200)
Suitable extinguish		dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).
Unsuitable extingui	sning media	: Do not use a heavy water stream.
5.2. Special ha	azards arising from the s	substance or mixture
No additional inform	nation available	
5.3. Advice fo	r firefighters	
Protection during fi	efighting	Do not attempt to take action without suitable protective equipment.
SECTION 6: Accid	ental release measures	
6.1. Personal	precautions, protective	equipment and emergency procedures
	mergency personnel	
Emergency proced		Avoid contact with skin, eyes and clothing.
Emergency proceed	uies .	Avoid contact with skin, eyes and clothing.
6.1.2. For emerg	gency responders	
Protective equipme	nt :	: Use personal protective equipment as required.
6.2. Environm	ental precautions	
Avoid release to the	e environment.	
6.3. Methods a	and material for contain	ment and cleaning up
Methods for cleaning	ng up	Clean contaminated surfaces with an excess of water.
6.4. Reference	e to other sections	
No additional inform	nation available	
SECTION 7: Hand	ling and storage	
7.1. Precautio	ns for safe handling	
Precautions for safe		Avoid contact with skin and eyes.
Hygiene measures		Wash hands and other exposed areas with mild soap and water before eating,
nygiono modouroo		drinking or smoking and when leaving work.
7.2. Condition	s for safe storage, inclu	ding any incompatibilities
Storage conditions	:	Store in a well-ventilated place. Keep container tightly closed.
7.3. Specific e	nd use(s)	
No additional inform	nation available	
SECTION 8: Expo	sure controls/personal p	protection
8.1. Control p	arameters	

No additional information available

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Hand protection:Protective glovesEye protection:Chemical goggles or safety glasesSkin and body protection:Approved supplied air respiratorEspiratory protection:Approved supplied air respiratorStrict Al Physical and beamical properties	8.2. Exposure controls	
Skin and body protection i Wear suitable protective clothing Respiratory protection i Approved supplied air respirator SECTION 3: Physical and chemical properties Physical state i Liquid Colour i Clear Colorfess. Odour threshold i No data available Odour threshold i No data available Odour threshold i No data available pH i 6 +/- 0.02 Relative evaporation rate (butylacetate=1) i No data available Boiling point i No data available I No data available Freezing point i No data available I No data available Flash point i No data available I No data available Quour pressure i No data available I No data available Platow upour density at 20 °C i No data available I No data available Relative density i No data available I No data available I I I I I I I I I I I I	Hand protection	: Protective gloves
Respiratory protection i. Approved supplied air respirator SECTION 9: Physical and chemical properties Physical state i. Liquid Colour i. Clear Colorless. Odour i. No data available Odour threshold i. No data available pH i. 6 +/- 0.02 Relative evaporation rate (butylacetate=1) i. No data available Prezing point i. No data available Freezing point i. No data available Fash point i. No data available Pathorith (solid, gas) i. No data available Planmability (solid, gas) i. No data available Relative vapour density at 20 °C i. No data available Relative density i. No data available Solubility i. No data available Relative density i. No data available Log Pow	• •	
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Viscosity, dynamic : No data available Explosive properties : No data available	Log Pow	: No data available
Explosive properties : No data available	Viscosity, kinematic	: No data available
	Viscosity, dynamic	: No data available
Oxidising properties : No data available	Explosive properties	: No data available
	Oxidising properties	: No data available
Explosive limits : No data available	Explosive limits	: No data available
9.2. Other information No additional information available SECTION 10: Stability and reactivity		
10.1. Reactivity		
No additional information available	No additional information available	

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10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous r	eactions
No additional information available	
10.4. Conditions to avoid	
Direct sunlight.	
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition	n products
No additional information available	
SECTION 11: Toxicological inform	ation
11.1. Information on toxicologic	cal offacto
Acute toxicity	: Not classified
Acute toxicity	. Not classified
Skin corrosion/irritation	: Not classified
Skir conosion/imation	pH: 6 +/- 0.02
Serious eye damage/irritation	: Not classified
Schold Cyc ddindgoriniaion	pH: 6 +/- 0.02
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
	. Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

 12.1.
 Toxicity

 No additional information available

12.2. Persistence and degradability

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SODIUM AZIDE AR (26628-22-8)	
Persistence 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 additional information available	
12.5. Results of PBT and vPvB ass	essment
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
No additional information available	
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / I	ATA / ADN
14.1. UN number	
UN-No. (ADR)	: Not applicable
UN-No. (IMDG)	: Not applicable
UN-No. (IATA)	: Not applicable
UN-No. (ADN)	: Not applicable
UN-No. (RID)	: Not applicable
44.0 UN success objection some	
14.2.UN proper shipping nameProper Shipping Name (ADR)	· Not applicable
Proper Shipping Name (IMDG)	: Not applicable : Not applicable
Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	: Not applicable
Proper Shipping Name (ADN)	: Not applicable
Proper Shipping Name (RID)	: Not applicable
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: Not applicable
IMDG	
Transport hazard class(es) (IMDG)	: Not applicable
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: Not applicable
ADN	
Transport hazard class(es) (ADN)	: Not applicable
RID	

RID

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Transport hazard class(es) (RID)	: Not applicable
14.4. Packing group	
Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
Packing group (ADN)	: Not applicable
Packing group (RID)	: Not applicable
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

Not applicable

- Transport by sea Not applicable

- Air transport

Not applicable

- Inland waterway transport Not applicable

- 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

Reference to AwSV	: Water hazard class (WGK) 3, Highly hazardous to water (Classification accord AwSV, Annex 1)	ing to
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)	
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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

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:

Acute Tox. 1 (Oral)	Acute toxicity (oral), Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, 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
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H300	Fatal if swallowed.
H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H410	Very toxic to aquatic life with long lasting effects.

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.