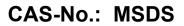
BUFFER STANDARD SOLUTION (CITRIC ACID/ SODIUM HYDROXIDE) PH 5.00 +/- 0.02 AT 20°C TRACEABLE TO NIST MSDS





MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification of the su	bstance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixture
	:
Product code	: B002D
1.2. Relevant identified uses of	i the 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	ne safety data sheet
LOBA CHEMIE PVT.LTD. 107 Wode House Road, Jehangir Vill 400005 Mumbai - INDIA T +91 22 6663 6663 - F +91 22 6663	6699
info@lobachemie.com - www.lobache	emie.com
1.4. Emergency telephone num	iber
Emergency number	: + 91 22 6663 6663 (9:00am - 6:00 pm)
SECTION 2: Hazards identification	
2.1. Classification of the subst	ance or mixture
Classification according to Regula	tion (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

Safety Data Sheet

2.3. Other hazards

3.1.

Not applicable

No additional information available

Substances

SECTION 3: Composition/information on ingredients

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	0.4 - 0.5	Skin Corr. 1A, H314
Hydrochloric acid	(CAS-No.) 7647-01-0 (EC-No.) 231-595-7 (EC Index-No.) 017-002-01-X	0.15 - 0.2	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	0.01 - 0.05	Acute Tox. 1 (Oral), H300 Aquatic Chronic 1, H410

Full text of H-statements: see section 16

Ires
: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or a doctor.
: Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention.
: Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
: 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: 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
No additional information available
5.3. Advice for firefighters
Protection during firefighting : Do not attempt to take action without suitable protective equipment.
SECTION 6: Accidental release measures
6.1. Personal precautions, protective equipment and emergency procedures
6.1.1. For non-emergency personnel
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 containment and cleaning up
Methods for cleaning up : Clean contaminated surfaces with an excess of water.
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 : 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, 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
SECTION 8: Exposure controls/personal protection
8.1. Control parameters

No additional information available

Safety Data Sheet

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 prop	erties
9.1. Information on basic physical a Physical state	nd chemical properties : Liquid
Colour	: Clear Colorless.
Odour	: No data available
Odour threshold	: No data available
рН	: 5 +/- 0.02
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 additional information available SECTION 10: Stability and reactivity	
10.1. Reactivity	

Safety Data Sheet

10.2. Chemical stability		
Stable under normal conditions.		
10.3. Possibility of hazardous	reactions	
No additional information available		
10.4. Conditions to avoid		
Direct sunlight.		
10.5. Incompatible materials		
No additional information available		
10.6. Hazardous decomposition	on products	
No additional information available		
SECTION 11: Toxicological infor	mation	
11.1. Information on toxicolog	lical effects	
Acute toxicity	: Not classified	
Skin corrosion/irritation	: Not classified	
	pH: 5 +/- 0.02	
Serious eye damage/irritation	: Not classified	
	pH: 5 +/- 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	
-		
STOT-repeated exposure	: Not classified	
Aspiration hazard	: Not classified	

SECTION 12: Ecological information

12.1.ToxicityNo additional information available

12.2. Persistence and degradability

Safety Data Sheet

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 asse	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 / IA	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
· · ·	
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable
Proper Shipping Name (ADN) Proper Shipping Name (RID)	: Not applicable : Not applicable
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: Not applicable
IMDG	
Transport hazard class(es) (IMDG)	: Not applicable
Transport hazard class(es) (IATA)	: Not applicable
ADN	· Not applicable
Transport hazard class(es) (ADN)	: Not applicable
RID	
עוא	

Safety Data Sheet

Transport hazard class(es) (RID)	: Not applicable
14.4. Packing group	
Packing group (ADR) Packing group (IMDG) Packing group (IATA) Packing group (ADN) Packing group (RID)	 Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable
14.5.Environmental hazardsDangerous for the environmentMarine pollutantOther information	: No : No : 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 12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	 Water hazard class (WGK) 3, Highly hazardous to water (Classification acco AwSV, Annex 1) Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance) 	rding to
www.lobachemie.com	18/09/2019	7/8

Safety Data Sheet

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.