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

CAS-No.: MSDS



MATERIAL SAFETY DATA SHEET (MSDS)

1.1.	Product identifier	
Produc	et form	: Mixture
		:
Produc	ct code	: B002D
1.2.	Relevant identified uses of t	he substance or mixture and uses advised against
1.2.1.	Relevant identified uses	
Industr	ial/Professional use spec	: Industrial
		For professional use only
1.2.2.	Uses advised against	
No add	ditional information available	
1.3. Details of the supplier of the safety data sheet		safety data sheet

SPAN LAB UNIT NO. 14,SKY INDUSTRIAL ESTATE,WALIV, VASAI (E) 401208 Mumbai - INDIA PH: +91 9820509929 info@spanlab.in_www.spanlab.in

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (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

No additional information available

SECT	SECTION 3: Composition/information on ingredients				
3.1.	Substances				
Not ap	pplicable				

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

SECTION 4: First aid measures	
4.1. Description of first aid measu	ires
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.

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: Fi	refighting measures		
5.1. Exting	uishing media		
Suitable extingu		: dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).	
Unsuitable extinguishing media		: Do not use a heavy water stream.	
Unsultable extin		. Do not use a neavy water stream.	
5.2. Specia	al hazards arising from the	substance or mixture	
No additional in	formation available		
	e for firefighters	. De net etternet te teles estis en útbent esiteble metertine em innert	
Protection durin	g firefighting	: Do not attempt to take action without suitable protective equipment.	
SECTION 6: Ac	cidental release measures		
6.1. Persor	nal precautions, protective	equipment and emergency procedures	
	on-emergency personnel		
Emergency pro		: Avoid contact with skin, eyes and clothing.	
Emergency pro-		. Wold contact with skill, eyes and clothing.	
6.1.2. For en	nergency responders		
Protective equip	oment	: Use personal protective equipment as required.	
6.2. Enviro	onmental precautions		
	the environment.		
6.3. Metho	ds and material for contain	ment and cleaning up	
Methods for clea	aning up	: Clean contaminated surfaces with an excess of water.	
	ence to other sections		
No additional in	formation available		
SECTION 7: Ha	andling and storage		
7.1. Preca	utions for safe handling		
Precautions for		: Avoid contact with skin and eyes.	
Hygiene measu	•	: Wash hands and other exposed areas with mild soap and water before eating,	
		drinking or smoking and when leaving work.	
7.2. Condi	tions for safe storage, inclu	uding any incompatibilities	
Storage condition	ons	: Store in a well-ventilated place. Keep container tightly closed.	
7.3. Specif	ïc end use(s)		
	formation available		
SECTION 8: Ex	posure controls/personal	protection	
	ol parameters		
No additional in	formation available		

Safety Data Sheet

8.2. Exposure controls

o.z. Exposure controis	
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	: 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

SECTIC	DN 10: Stability and reactivity
10.1.	Reactivity
No addi	tional information available

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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 p	roducts				
No additional information available					
SECTION 11: Toxicological information	on				
11.1. Information on toxicological					
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				
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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 asses	oment
No additional information available	Shicht
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 / IAT	A / 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)	: Not applicable
Proper Shipping Name (RID)	: Not applicable
14.3. Transport hazard class(es)	
	Alet en la chie
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	

Safety Data Sheet

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

Safety, health and environmental regulations/legislation specific for the substance or mixture 15.1.

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)	0
	12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	:	Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)	
1	www.spanlab.in		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.