### BUFFER STANDARD SOLUTION (BORIC ACID/POTASSIUM CHLORIDE/SODIUM HYDROXIDE) PH 11.0 +/- 0.02 AT 20°C TRACEABLE TO NIST MSDS





# MATERIAL SAFETY DATA SHEET (MSDS)

SECTI	ON 1: Identification of the substa	nce/mixture and of the company/undertaking
1.1.	Product identifier	
Produc	et form	: Mixture
		:
Produc	ct code	: B0018
1.2.	Relevant identified uses of the	substance or mixture and uses advised against
1.2.1.	Relevant identified uses	
Industr	ial/Professional use spec	: Industrial For professional use only
		For professional use only
1.2.2.	Uses advised against	
No add	litional information available	
1.3.	Details of the supplier of the sa	fety data sheet
	ens Fine Chem Industries or , Above Bank of India, Guru Viha	r Bahon Road
Ludhia	na Pb. (141007)	r, Rahor Road,
	16777775, +91 7707855700	
sales@	)labogens.com - www.Labogens.c	
1.4.	Emergency telephone number	
Emerg	ency number	: +91 7707855700 (9:00am - 6:00 pm)
SECTI	ON 2: Hazards identification	
2.1.	Classification of the substance	or mixture
Classi	fication according to Regulation (	(EC) No. 1272/2008 [CLP]
Not cla	ssified	
NOT UD	oomed	

### 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 applicable

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	99 - 100	Not classified
BORIC ACID AR/ACS substance listed as REACH Candidate (Boric acid)	(CAS-No.) 10043-35-3 (EC-No.) 233-139-2	0.3 - 0.5	Repr. 1A, H360
POTASSIUM CHLORIDE AR		0.3 - 0.5	Not classified
SODIUM HYDROXIDE PELLETS 98% AR/ACS	(CAS-No.) 1310-73-2	0.1 - 0.2	Skin Corr. 1A, H314
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	1700	
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.	
First-aid measures after skin contact	: Wash skin with plenty of water.	
First-aid measures after eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing.	
First-aid measures after ingestion	: Rinse mouth out with water.	
4.2. Most important symptoms ar	nd effects, both acute and delayed	
No additional information available		
4.3. Indication of any immediate r	nedical attention and special treatment needed	
Treat symptomatically.		
SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media	: Dry chemical, CO2, dry sand, or alcohol-resistant foam.	
Unsuitable extinguishing media	: Do not use a heavy water stream.	
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5.0 Created because an intervention of the substance on minimum	
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	

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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 Colorless.		
Odour : No data available		
Odour threshold : No data available		
pH : 11 +/-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		
0.2 Other information		

### 9.2. Other information

No additional information available

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SECTION 10: Stability and reactivity		
10.1. Reactivity		
No additional information available		
40.2 Chemical stability		
<b>10.2.</b> Chemical stability Stable under normal conditions.		
Stable under normal conditions.		
10.3. Possibility of hazardous rea	ictions	
No additional information available		
10.4. Conditions to avoid		
Direct sunlight.		
10.5. Incompatible materials		
No additional information available		
10.6. Hazardous decomposition p	products	
No additional information available		
<b>SECTION 11: Toxicological informat</b>	ion	
11.1. Information on toxicologica	l offocts	
Acute toxicity	: Not classified	
Skin corrosion/irritation	: Not classified	
	pH: 11 +/-0.02	
Serious eye damage/irritation	: Not classified	
	pH: 11 +/-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. Toxicity

No additional information available

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ODIUM AZIDE AR (26628-22-8)	
Persistence and degradability	May cause long-term adverse effects in the environment.
2.3. Bioaccumulative potential	

### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

Component	
BORIC ACID AR/ACS (10043-35-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

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 / IATA / ADN

14.1.UN numberUN-No. (ADR)UN-No. (IMDG)UN-No. (IATA)UN-No. (ADN)	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>		
UN-No. (RID)	: Not applicable		
14.2.UN proper shipping nameProper Shipping Name (ADR)Proper Shipping Name (IMDG)Proper Shipping Name (IATA)Proper Shipping Name (ADN)Proper Shipping Name (RID)	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>		
14.3. Transport hazard class(es)			
ADR Transport hazard class(es) (ADR)	: Not applicable		
IMDG			
Transport hazard class(es) (IMDG)	: Not applicable		
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IATA Transport hazard class(es) (IATA)	: Not applicable
<b>ADN</b> Transport hazard class(es) (ADN)	: Not applicable
<b>RID</b> 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 a substance on the REACH candidate list in concentration  $\geq$  0.1% or with a lower specific limit: Boric acid (EC 233-139-2, CAS 10043-35-3)

Contains no REACH Annex XIV substances

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#### 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. BlmSchV (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	: BORIC ACID AR/ACS is listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: BORIC ACID AR/ACS is listed
Denmark	

### Recommendations Danish Regulation

: The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

### 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
Repr. 1A	Reproductive toxicity, Category 1A
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
H300	Fatal if swallowed.
H314	Causes severe skin burns and eye damage.
H360	May damage fertility or the unborn child.
H410	Very toxic to aquatic life with long lasting effects.

Safety Data Sheet

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.