Safety Data Sheet



SECTION 1: Identification

1.1. Identification

Product name : Buffer Solution, pH 9.18

Product number : 30100428

1.2. Recommended use and restrictions on use

Recommended use : Laboratory chemicals

1.3. Supplier

Ohaus Instruments (Changzhou)co.,ltd

Building 22

538 West Hehai Road

Xinbei District, Changzhou, Jiangsu Province, 213012

China

T 4008-217-188 pH@ohaus.com

1.4. Emergency telephone number

Emergency number : Emergency CONTACT (24-Hour-Number)

GBK/Infotrac ID114774: (USA domestic) 1 800 535 5053 or international (001) 352 323 3500

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

Repr. 1B H360 May damage fertility or the unborn child. Route of exposure: Oral.

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Danger

Hazard statements (GHS US) : H360 May damage fertility or the unborn child. Route of exposure: Oral

Precautionary statements (GHS US) : P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood. P280 Wear protective gloves/protective clothing/eye protection/face protection.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

2.3. Other hazards which do not result in classification

There are no other hazards not otherwise classified that have been identified.

2.4. Unknown acute toxicity (GHS US)

Not applicable

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SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
Water	CAS-No.: 7732-18-5	99.6	
Disodium tetraborate, decahydrate	CAS-No.: 1303-96-4		Repr. 1B, H360 Eye Irrit. 2A, H319

Full text of hazard classes and H-statements: see section 16

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret.

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : No special measures required.

First-aid measures after inhalation : Supply fresh air; consult doctor in case of complaints.

First-aid measures after skin contact : Wash with soap and water.

If skin irritation is experienced, consult a doctor.

First-aid measures after eye contact : Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a

doctor.

First-aid measures after ingestion : Rinse mouth. Call a physician immediately. Do not induce vomiting.

4.2. Most important symptoms and effects (acute and delayed)

May cause gastro-intestinal irritation if ingested.

4.3. Danger

May damage fertility or the unborn child. Route of exposure: Oral.

No relevant information available.

4.4. Indication of any immediate medical attention and special treatment needed:

If medical advice is needed, have product container or label at hand.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Use firefighting measures that suit the environment.

5.2. Specific hazards arising from the chemical

Formation of toxic gases is possible during heating or in case of fire.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Wear self-contained respiratory protective device.

Wear fully protective suit.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

6.2. Environmental precautions

No special measures required.

6.3. Methods and material for containment and cleaning up

Wipe up small spills with paper towel and discard.

For larger spills, add sawdust, chalk or other inert binding material, then sweep up and discard.

Dispose of the collected material according to regulations.

6.4. Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Prevent formation of aerosols. Information about protection against explosions and : No special measures required.

fires

7.2. Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and : Store only in the original receptacle.

receptacles Store in cool, dry conditions in well-sealed receptacles.

Unsuitable material for receptacle: aluminum.

Information about storage in one common storage

facility

Store away from foodstuffs.

Do not store together with alkalis (caustic solutions).

Do not store together with oxidizing and acidic materials.

Further information about storage conditions : Keep containers tightly sealed.

Store in cool, dry conditions in well-sealed receptacles

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Components with limit values that require monitoring at the workplace:

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1303-96-4 Disodium tetraborate, decahydrate		
PEL (USA)	Long-term value: 5 mg/m³	
TLV (USA)	Short-term value: 6* mg/m³	
	Long-term value: 2* mg/m³ *as inhalable fraction	
EL (Canada)	Short-term value: 6 mg/m³	
LL (Gariada)	Long-term value: 2 mg/m³	
EV (Canada)	Short-term value: 6 mg/m³	
	Long-term value: 2 mg/m³	
	inorganic, inhalable	
LMPE (Mexico)	Short-term value: 6* mg/m³	
	Long-term value: 2* mg/m³	
	A4, *fracción inhalable	

8.2. Appropriate engineering controls

Appropriate engineering controls : Provide adequate ventilation.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

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

Color: Clear, colorlessOdor: OdorlessOdor threshold: Not determined.

Flash point : The product is not flammable.

Relative evaporation rate (butyl acetate=1) No data available Flammability (solid, gas) Not applicable. Vapor pressure 23 hPa (17.3 mm Hg) Relative vapor density at 20 °C Not determined Relative density No data available Solubility Fully miscible. Log Pow No data available Auto-ignition temperature : No data available Decomposition temperature : No data available : No data available Viscosity, kinematic

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Viscosity, dynamic : No data available
Explosion limits : No data available
Explosive properties : No data available
Oxidizing properties : Non-oxidizing.

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No relevant information available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Reacts with alkali (lyes).

Toxic fumes may be released if heated above the decomposition point.

10.4. Conditions to avoid

Store away from oxidizing agents.

10.5. Incompatible materials

No relevant information available.

10.6. Hazardous decomposition products

Under fire conditions only:

Sodium oxides

Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Based on available data, the classification criteria are not met.

LD/LC50 values that are relevant for classification:

1303-96-4 Disodium tetraborate, decahydrate

Oral LD50 2660 mg/kg (rat)

Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

NTP (National Toxicology Program):

None of the ingredients are listed.

OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

Skin corrosion/irritation : Based on available data, the classification criteria are not met.
Serious eye damage/irritation : Based on available data, the classification criteria are not met.

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Respiratory or skin sensitization : Based on available data, the classification criteria are not met. Germ cell mutagenicity : Based on available data, the classification criteria are not met. Carcinogenicity : Based on available data, the classification criteria are not met. Reproductive toxicity : Based on available data, the classification criteria are not met. STOT-single exposure : Based on available data, the classification criteria are not met. STOT-repeated exposure : Based on available data, the classification criteria are not met. Aspiration hazard : Based on available data, the classification criteria are not met.

Viscosity, kinematic : No data available

Symptoms/effects after skin contact : Burns.

Symptoms/effects after eye contact : Serious damage to eyes.

Symptoms/effects after ingestion : Burns.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : No relevant information available.

12.2. Persistence and degradability

No relevant information available

12.3. Bioaccumulative potential

No relevant information available.

12.4. Mobility in soil

No relevant information available.

12.5. Other adverse effects

No relevant information available.

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Must not be disposed of together with household garbage. Do not allow product to reach sewage

system. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

DOT	TDG	IMDG	IATA
14.1. UN number			
Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2. Proper Shipping Name			
Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.3. Transport hazard class(es)			
Not regulated.	Not regulated.	Not regulated.	Not regulated.

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DOT	TDG	IMDG	IATA
14.4. Packing group			
Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.5. Environmental hazards			
No	No	No	No
No supplementary information available			

14.6. Special precautions for user

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. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for:

All ingredients are listed or exempt.

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

None of the ingredients are listed.

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

None of the ingredients are listed.

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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Other information

: Data of sections 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities. The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge. The delivery specifications are contained in the corresponding product sheet. This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

Full text of H-phrases		
H272	May intensify fire; oxidizer	
H290	May be corrosive to metals.	
H300	Fatal if swallowed	
H301	Toxic if swallowed	
H311	Toxic in contact with skin	
H312	Harmful in contact with skin	
H314	Causes severe skin burns and eye damage	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage	
H330	Fatal if inhaled	
H334	May cause an allergy or asthma symptoms or breathing difficulties if inhaled	
H340	May cause genetic defects	
H350	May cause cancer	
H372	Causes damage to organs through prolonged or repeated exposure	
H400	Very toxic to aquatic life	
H401	Toxic to aquatic life	
H410	Very toxic to aquatic life with long lasting effects	
H411	Toxic to aquatic life with long lasting effects	

Abbreviations and acronyms		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	

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Aborewaters and Secure 1 European Standard IARC International Agency for Research on Cancer IATA International Air Transport Association IMDG International Maritime Dangerous Goods LC50 Median lethal concentration LD50 Median lethal concentration LD61 Lowest Observed Adverse Effect Level NOAEC No-Observed Adverse Effect Level NOEC No-Observed Effect Concentration NOEC No-Observed Effect Concentration OECD Organisation for Economic Co-operation and Development OEC Organisation for Economic Co-operation and Development OECD Organisation for Economic Co-operation and Development OECD Organisation for Economic Co-operation and Development OECD Organisation for Economic Co-operation and Development OEL Occupational Exposure Limit PRE Persistent Sloaccumulative Toxic PNEC Predicted No-Effect Concentration RID Regulations concerning the International Carriage of Dangerous Goods by Rail SSS Safety Data Sheet STP Sewage treatment plant				
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VOC Volatile Organic Compounds CAS-No. Chemical Abstract Service number N.O.S. Not Otherwise Specified vPvB Very Persistent and Very Bioaccumulative ED Endocrine disrupting properties DOT Department of Transport TDG Transportation of Dangerous Goods REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 GHS Globally Harmonized System of Classification, Labelling and Packaging of Chemicals in Bulk CLP Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 MARPOL 73/78 International Convention for the Prevention of Pollution From Ships	ThOD	Theoretical oxygen demand (ThOD)		
CAS-No. Chemical Abstract Service number N.O.S. Not Otherwise Specified VPVB Very Persistent and Very Bioaccumulative ED Endocrine disrupting properties DOT Department of Transport TDG Transportation of Dangerous Goods REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 GHS Globally Harmonized System of Classification, Labelling and Packaging of Chemicals IBC-Code International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk CLP Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 MARPOL 73/78 International Convention for the Prevention of Pollution From Ships	TLM	Median Tolerance Limit		
N.O.S. Not Otherwise Specified vPvB Very Persistent and Very Bioaccumulative ED Endocrine disrupting properties DOT Department of Transport TDG Transportation of Dangerous Goods REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 GHS Globally Harmonized System of Classification, Labelling and Packaging of Chemicals IBC-Code International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk CLP Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 MARPOL 73/78 MARPOL 73/78: International Convention for the Prevention of Pollution From Ships	VOC	Volatile Organic Compounds		
Very Persistent and Very Bioaccumulative ED Endocrine disrupting properties DOT Department of Transport TDG Transportation of Dangerous Goods REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 GHS Globally Harmonized System of Classification, Labelling and Packaging of Chemicals IBC-Code International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk CLP Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 MARPOL 73/78 International Convention for the Prevention of Pollution From Ships	CAS-No.	Chemical Abstract Service number		
ED Endocrine disrupting properties DOT Department of Transport TDG Transportation of Dangerous Goods REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 GHS Globally Harmonized System of Classification, Labelling and Packaging of Chemicals IBC-Code International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk CLP Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 MARPOL 73/78 International Convention for the Prevention of Pollution From Ships	N.O.S.	Not Otherwise Specified		
DOT Department of Transport TDG Transportation of Dangerous Goods REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 GHS Globally Harmonized System of Classification, Labelling and Packaging of Chemicals IBC-Code International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk CLP Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 MARPOL 73/78 MARPOL 73/78: International Convention for the Prevention of Pollution From Ships	vPvB	Very Persistent and Very Bioaccumulative		
TDG Transportation of Dangerous Goods REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 GHS Globally Harmonized System of Classification, Labelling and Packaging of Chemicals IBC-Code International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk CLP Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 MARPOL 73/78 MARPOL 73/78: International Convention for the Prevention of Pollution From Ships	ED	Endocrine disrupting properties		
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 GHS Globally Harmonized System of Classification, Labelling and Packaging of Chemicals IBC-Code International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk CLP Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 MARPOL 73/78 MARPOL 73/78: International Convention for the Prevention of Pollution From Ships	DOT	Department of Transport		
GHS Globally Harmonized System of Classification, Labelling and Packaging of Chemicals IBC-Code International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk CLP Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 MARPOL 73/78 MARPOL 73/78: International Convention for the Prevention of Pollution From Ships	TDG	Transportation of Dangerous Goods		
IBC-Code International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk CLP Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 MARPOL 73/78 MARPOL 73/78: International Convention for the Prevention of Pollution From Ships	REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006		
CLP Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 MARPOL 73/78 MARPOL 73/78: International Convention for the Prevention of Pollution From Ships	GHS	Globally Harmonized System of Classification, Labelling and Packaging of Chemicals		
MARPOL 73/78 MARPOL 73/78: International Convention for the Prevention of Pollution From Ships	IBC-Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk		
	CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008		
ADG Transport of Australian Dangerous Goods	MARPOL 73/78	MARPOL 73/78: International Convention for the Prevention of Pollution From Ships		
	ADG	Transport of Australian Dangerous Goods		

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 therefore not be construed as guaranteeing any specific property of the product.

Safety Data Sheet



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