

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 06/03/2013 Revision date: 06/03/2013 Supersedes: 08/17/2012

Version: 1.0

I.1. Product identifier Product form Product name. Product code I.2. I.2. Relevant identified uses of the substance/mixture I.3. Details of the supplier of the safety LabChem Inc Jackson's Pointe Commerce Park Building 1000 Zelienople, PA 16063 - USA If 412-826-5230 - F 724-473-0647 Info@labchem.com - www.labchem.com Image: Same and	: For labora	ture and uses advised ag atory and manufacturing us		
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A Emergeney televisers number				
I.4. Emergency telephone number				
Emergency number	: CHEMTR	EC: 1-800-424-9300 or 01	1-703-527-3887	
SECTION 2: Hazards identification				
2.1. Classification of the substance or m	nixture			
GHS-US classification Repr. 1B H360				
2.2. Label elements				
GHS-US labelling				
Hazard pictograms (GHS-US)				
	GHSC	18		
Signal word (GHS-US)	: Danger			
lazard statements (GHS-US)	: H360 - M	ay damage fertility or the u	nborn child	
Precautionary statements (GHS-US)	P202 - Do P280 - W P308+P3 P405 - St	btain special instructions b to not handle until all safety ear eye protection, protect 13 - IF exposed or concerr ore locked up spose of contents/containe	precautions have bee ive gloves ned: Get medical advi	
2.3. Other hazards				
Other hazards not contributing to the classification	: None.			
2.4. Unknown acute toxicity (GHS-US)				
No data available				
SECTION 3: Composition/informatio	on on inare	dients		
3.1. Substances				
Not applicable				
Full text of H-phrases: see section 16				
3.2. Mixture				
Name	Dr	oduct identifier	%	GHS-US classification
Water		AS No) 7732-18-5	98	Not classified
Boric Acid		AS No) 10043-35-3	2	Repr. 1B, H360
SECTION 4: First aid measures				
I.1. Description of first aid measures				
First-aid measures general	: Never giv advice/at		unconscious person.	IF exposed or concerned: Get me
First-aid measures after inhalation		esh air breathing. Allow the	e victim to rest.	

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First-aid measures after skin contact	 Remove affected clothing and wash all exposed skin area with mild soap and water, followed b warm water rinse.
First-aid measures after eye contact	 Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
4.2. Most important symptoms and	effects, both acute and delayed
Symptoms/injuries	: May damage fertility. May damage the unborn child.
Symptoms/injuries after inhalation	: May cause respiratory irritation.
Symptoms/injuries after skin contact	: Slight irritation.
Symptoms/injuries after eye contact	: May cause slight irritation.
Symptoms/injuries after ingestion	: Nausea. Vomiting.
Symptoms/injuries upon intravenous administration	: Not available.
Chronic symptoms	: Affection of the renal tissue. Change in the haemogramme/blood composition.
4.3. Indication of any immediate me	dical attention and special treatment needed
Obtain medical assistance.	
SECTION 5: Firefighting measure	es
5.1. Extinguishing media	
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the	e substance or mixture
Fire hazard	: Not flammable.
Explosion hazard	: Not applicable.
Reactivity	: None.
5.3. Advice for firefighters	
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
Other information	: Not applicable.
SECTION 6: Accidental release n	neasures
	e equipment and emergency procedures
General measures	: Isolate from fire, if possible, without unnecessary risk.
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
	. L'acuale unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	
Prevent entry to sewers and public waters.	Notify authorities if liquid enters sewers or public waters.
6.3. Methods and material for contain	nment and cleaning up
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store aways from other materials.
6.4. Reference to other sections	
	onal protection.

SECTION 7. Hallu	ing and storage		
7.1. Precautions	for safe handling		
Precautions for safe har	ndling :	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent format vapour. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use.	ion of
Hygiene measures	:	Wash exposed skin thoroughly after handling.	
7.2. Conditions for	or safe storage, including	any incompatibilities	
Storage conditions	:	Keep only in the original container in a cool, well ventilated place away from : incompatible materials. Keep container closed when not in use.	
Incompatible products	:	Strong bases. Strong acids.	
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Incompatible materials

: Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Boric Acid (10043-35-3)			
USA ACGIH ACGIH TWA (mg/m³) 2 mg/m³		2 mg/m³	
USA ACGIH	ACGIH Ceiling (mg/m³)	6 mg/m³	
3.2. Exposure controls			
Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediat		afety showers should be available in the immediate vicinity	

	of any potential exposure.
Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear protective gloves.
Eye protection	: Chemical goggles or safety glasses.
Respiratory protection	: Wear appropriate mask.
Other information	: Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and	d chemical properties
Physical state	: Liquid
Appearance	: Clear, colorless liquid.
Colour	: Colourless.
Odour	: characteristic.
Odour threshold	: No data available
рН	: No data available
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
Self 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	: Soluble in water.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Not applicable.
Oxidising properties	: None.
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity				
10.1.	Reactivity			
None.				
10.2.	Chemical stability			
Not esta	tablished.			
10.3.	Possibility of hazardous reactions			
Not esta	tablished.			

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10.4. Conditions to avoid				
Direct sunlight. Extremely high or low temperatures.				
10.5. Incompatible materials				
Strong acids. Strong bases.				
10.6. Hazardous decomposition products				
boron.				
SECTION 11: Toxicological information	n			
11.1. Information on toxicological effects				
Acute toxicity	: Not classified			
Paris Asid (10042-25-2)				
Boric Acid (10043-35-3) LD50 oral rat	2660 mg/kg			
LD50 dermal rabbit	2000 mg/kg			
Water (7732-18-5)				
LD50 oral rat	≥ 90000 mg/kg			
Skin corrosion/irritation	: Not classified			
Serious eye damage/irritation	: Not classified			
Respiratory or skin sensitisation	: Not classified			
Germ cell mutagenicity	: Not classified			
	Based on available data, the classification criteria are not met			
Carcinogenicity	: Not classified			
Reproductive toxicity	May damage fertility or the unborn child.			
	Based on available data, the classification criteria are not met			
Specific target organ toxicity (single exposure)	: Not classified			
Specific target organ toxicity (repeated	: Not classified			
exposure)	Based on available data, the classification criteria are not met			
Aspiration hazard	: Not classified			
	Based on available data, the classification criteria are not met			
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.			
Symptoms/injuries after inhalation	: May cause respiratory irritation.			
Symptoms/injuries after skin contact	: Slight irritation.			

- : Slight irritation.
- Symptoms/injuries after eye contact : May cause slight irritation.
- Symptoms/injuries after ingestion : Nausea. Vomiting. Symptoms/injuries upon intravenous
 - : Not available.

: Affection of the renal tissue. Change in the haemogramme/blood composition.

SECTION 12: Ecological information

12.1. Toxicity

administration Chronic symptoms

Boric Acid (10043-35-3)		
LC50 fishes 1	5600 mg/l Gambusia affinis	
EC50 Daphnia 1	115 mg/l	
EC50 Daphnia 2	658 - 875 mg/l	
12.2. Persistence and degradability		
Boric Acid, 2% w/v		
Persistence and degradability	Not established.	
Boric Acid (10043-35-3)		
Persistence and degradability	Not established.	
12.3. Bioaccumulative potential		
Boric Acid, 2% w/v		
Bioaccumulative potential	Not established.	

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Boric Acid (10043-35-3)	
Log Pow	-0.757
Bioaccumulative potential	Not established.
12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	
	Avoid release to the environment.
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Waste disposal recommendations :	Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations.
Ecology - waste materials	Avoid release to the environment.
SECTION 14: Transport information	
In accordance with DOT	
14.1. UN number	
No dangerous good in sense of transport regulation	ns
14.2. UN proper shipping name	
Not applicable	
14.3. Additional information	
Other information :	No supplementary information available.
Overland transport No additional information available Transport by sea No additional information available Air transport No additional information available SECTION 15: Regulatory information	
15.1. US Federal regulations	
Boric Acid (10043-35-3)	
Listed on the United States TSCA (Toxic Substar	nces Control Act) inventory
15.2. International regulations	
CANADA	
Boric Acid, 2% w/v	
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects
Boric Acid (10043-35-3)	
Listed on the Canadian DSL (Domestic Sustance	
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects
EU-Regulations	

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC or 1999/45/EC Not classified

15.2.2. National regulations

Boric Acid (10043-35-3)

Listed on the Canadian Ingredient Disclosure List

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15.3. US State regulations

No additional information available

SECTION 16: Other information	
Indication of changes	: Revision - See : *.
Other information	: None.
Full text of H-phrases: see section 16: Repr. 1B	Reproductive toxicity, Category 1B
H360	May damage fertility or the unborn child
NFPA health hazard NFPA fire hazard NFPA reactivity	 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given. 0 - Materials that will not burn. 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 0 Minimal Hazard
Physical	: 0 Minimal Hazard
Personal Protection	: C

SDS US (GHS HazCom 2012)

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