

Buffer pH 4.00 @ 25°C (Red) Safety Data Sheet according to the Hazardous Products Regulation (February 11, 2015)

Date of issue: 01/25/2016 Version: 1.0

SECTION 1: Identification	
1.1. Product identifier	
Product form	: Mixture
Product name	: Buffer pH 4.00 @ 25°C (Red)
Product code	: B5140
Product group	: Blend
1.2. Recommended use and restriction	ns on use
Recommended uses and restrictions	: Laboratory chemicals
1.3. Supplier	
Produits Chimiques ACP Chemicals Inc. 4601, boul. des Grandes Prairies Montreal, Quebec H1R 1A5 www.acpchem.com	
1.4. Emergency telephone number	
Emergency number	: (613) 996-6666 (CANUTEC)
SECTION 2: Hazards identification	
2.1. Classification of the substance or	mixture
Classification (GHS-CA)	
STOT RE 2 H373	
Full text of H statements : see section 16	
2.2. GHS Label elements, including pr	ecautionary statements
GHS-CA labelling	
Hazard pictograms (GHS-CA)	: GH508
Signal word (GHS-CA)Hazard statements (GHS-CA)	: Warning
Hazard statements (GHS-CA)	: May cause damage to organs (nervous system, kidneys, intestinal tract) through prolonged or repeated exposure
Precautionary statements (GHS-CA)	 Do not breathe mist, spray Get medical advice/attention if you feel unwell Dispose of contents/container to Comply with applicable regulations
2.3. Other hazards	
Other hazards not contributing to the classification	: None under normal conditions.
2.4. Unknown acute toxicity (GHS-CA)	
No data available	
SECTION 2. Composition/informat	

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

Name	Product identifier	%	Classification (GHS-CA)
Water	(CAS No) 7732-18-5	98.955	Not classified
Potassium Hydrogen Phthalate	(CAS No) 877-24-7	1.033	Eye Irrit. 2B, H320
Mercuric Iodide	(CAS No) 7774-29-0	0.005	Acute Tox. 2 (Oral), H300 Acute Tox. 2 (Dermal), H310 Acute Tox. 2 (Inhalation:gas), H330 STOT SE 2, H371 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Potassium Iodide	(CAS No) 7681-11-0	0.003	Not classified

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Name	Product identifier	%	Classification (GHS-CA)
Sodium Hydroxide	(CAS No) 1310-73-2	0.002	Acute Tox. 4 (Dermal), H312 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Acute 3, H402
FD&C Red 40	(CAS No) 25956-17-6	0.002	Not classified

Full text of H-statements: see section 16

SECTION 4: First-aid measures				
4.1. Description of first aid measures	S			
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	: Rinse eyes with water as a precaution.			
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.			
4.2. Most important symptoms and e	ffects (acute and delayed)			
Symptoms/injuries	: May cause damage to organs (nervous system, intestinal tract, kidneys).			
Chronic symptoms	: Behavioural disturbances. Impaired memory. Movement disturbances. Tremor.			
4.3. Immediate medical attention and special treatment, if necessary				
Treatment	: Treat symptomatically.			
Antidote	: CHELATING AGENTS.			

ECTION 5: Fire-fighting measures	
1. Suitable extinguishing media	Wetersener Drugender Frenz Orders disside
uitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
2. Unsuitable extinguishing media	
o additional information available	
.3. Specific hazards arising from the I	nazardous product
eactivity	: The product is non-reactive under normal conditions of use, storage and transport.
.3. Special protective equipment and	precautions for fire-fighters
rotection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
ECTION 6: Accidental release me	asures
.1. Personal precautions, protective e	quipment and emergency procedures
ersonal Precautions, Protective Equipment nd Emergency Procedures	: Chemical goggles or safety glasses. Protective gloves.
2. Methods and materials for contain	ment and cleaning up
lethods for cleaning up	: Take up liquid spill into absorbent material. Carefully collect the spill/leftovers.
ther information	: Dispose of materials or solid residues at an authorized site.
.3. Reference to other sections	
ea transport (IMO)	
ECTION 7: Handling and storage	
1. Precautions for safe handling	
recautions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment. Do not breathe mist, spray.
ygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
2. Conditions for safe storage, include	ling any incompatibilities
torage conditions	: Store in a well-ventilated place. Keep cool.
compatible products	: None known.
compatible materials	: None known.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
Sodium Hydroxide (1310-73-2)

USA - ACGIH	ACGIH Ceiling (mg/m ³)	2 mg/m³ (Sodium hydroxide; USA; Momentary value; TLV - Adopted Value)

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Sodium Hydroxide (1310-73-2)			
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	2 mg/m ³	
Canada (Quebec)	PLAFOND (mg/m ³)	2 mg/m ³	
Canada (Quebec)	Notations and remarks	RP	
Alberta	OEL Ceiling (mg/m ³)	2 mg/m ³	
British Columbia	OEL Ceiling (mg/m ³)	2 mg/m ³	
Manitoba	OEL Ceiling (mg/m ³)	2 mg/m³	
New Brunswick	OEL Ceiling (mg/m ³)	2 mg/m³	
New Foundland & Labrador	OEL Ceiling (mg/m ³)	2 mg/m ³	
Nova Scotia	OEL Ceiling (mg/m ³)	2 mg/m ³	
Nunavut	OEL Ceiling (mg/m ³)	2 mg/m³	
Northwest Territories	OEL Ceiling (mg/m ³)	2 mg/m³	
Ontario	OEL Ceiling (mg/m ³)	2 mg/m³	
Prince Edward Island	OEL Ceiling (mg/m ³)	2 mg/m ³	
Québec	PLAFOND (mg/m ³)	2 mg/m³	
Québec	Notations and remarks	RP	
Saskatchewan	OEL Ceiling (mg/m ³)	2 mg/m³	
Yukon	OEL Ceiling (mg/m ³)	2 mg/m ³	
Potassium lodide (7681-11-	0)		
USA - ACGIH	ACGIH TWA (ppm)	0.01 ppm Inhalable fraction	
Mercuric Iodide (7774-29-0)			
USA - ACGIH	ACGIH TWA (mg/m ³)	0.025 mg/m³ as Hg, Skin	
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	0.1 mg/m³ as Hg	
8.2. Appropriate engineering controls			

: Ensure good ventilation of the work station. Appropriate engineering controls

8.3. Individual protection measures/Perso	Individual protection measures/Personal protective equipment		
Hand protection	: Protective gloves.		
Eye protection	: Safety glasses.		
Skin and body protection	: Wear suitable protective clothing.		
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment.		

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SECTION 9: Ph	ysical and chemical	properties

Environmental exposure controls

SECTION 5. Thysical and chemical	
9.1. Information on basic physical and	chemical properties
Physical state	: Liquid
Appearance	: No data available
Colour	: pink.
Odour	: None.
Odour threshold	: No data available
рН	: 4
pH solution	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: Not applicable
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)	: Not applicable
Vapour pressure	: No data available
Vapour pressure at 50 °C	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Relative density of saturated gas/air mixture	: No data available
Density	: 1 g/ml
Relative gas density	: No data available

: Avoid release to the environment.

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Solubility	: Soluble in water.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, kinematic (calculated value) (40 °C)	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
Lower explosive limit (LEL)	: No data available
Upper explosive limit (UEL)	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity			
Reactivity in case of fire	: The product is non-reactive under normal conditions of use, storage and transport.		
Chemical stability	: Stable under normal conditions.		
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.		
Conditions to avoid	: None under recommended storage and handling conditions (see section 7).		
Incompatible materials	: No data available.		
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.		

SECTION 11: Toxicological information		
Likely routes of exposure	: Skin and eye contact.	
11.1. Information on toxicological effects		
Acute toxicity (oral)	: Not classified	
Acute toxicity (dermal)	: Not classified	
Acute toxicity (inhalation)	: Not classified	

Potassium Hydrogen Phthalate (877-24-7)		
LD50 oral rat	≥ 3200 mg/kg	
Mercuric Iodide (7774-29-0)		
LD50 oral rat	18 mg/kg	
LD50 dermal rat	75 mg/kg	
Water (7732-18-5)		
LD50 oral rat	≥ 90000 mg/kg	
Skin corrosion/irritation	: Not classified	
	рН: 4	
Serious eye damage/irritation	: Not classified	
	рН: 4	
Respiratory or skin sensitization	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
Specific target organ toxicity (single exposure)	: Not classified	
Specific target organ toxicity (repeated exposure)	: May cause damage to organs (nervous system, kidneys, intestinal tract) through prolonged or repeated exposure.	
Aspiration hazard	: Not classified	

SECTION 12: Ecological inform	ation
12.1. Toxicity	
Ecology - general	: Not classified due to lack of data.

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Sodium Hydroxide (1310-73-2)	
LC50 fish 1	45.4 mg/l (LC50; Other; 96 h; Salmo gairdneri; Static system; Fresh water; Experimental
	value)
Potassium Iodide (7681-11-0)	
LC50 fish 1	3200 mg/l 120 h
EC50 Daphnia 1	2.7 mg/l 24 h
2.2. Persistence and degradability	
Buffer pH 4.00 @ 25°C (Red)	
Persistence and degradability	No test data available.
Potassium Hydrogen Phthalate (877-24-7	7)
Persistence and degradability	Not established.
Sodium Hydroxide (1310-73-2)	
Persistence and degradability	Biodegradability: not applicable. No (test)data on mobility of the substance available.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
Potassium Iodide (7681-11-0)	Net established
Persistence and degradability	Not established.
Water (7732-18-5)	Al-4 4-bP-b 4
Persistence and degradability	Not established.
2.3. Bioaccumulative potential	
Buffer pH 4.00 @ 25°C (Red)	
Bioaccumulative potential	Potential for bioaccumulation ($500 \le BCF \le 5000$).
Potassium Hydrogen Phthalate (877-24-7	•
Bioaccumulative potential	Not established.
Sodium Hydroxide (1310-73-2)	
Bioaccumulative potential	No bioaccumulation data available.
Potassium Iodide (7681-11-0)	
Bioaccumulative potential	Not established.
Water (7732-18-5)	
Bioaccumulative potential	Not established.
2.4. Mobility in soil	
No additional information available	
2.5. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerat	tions
3.1. Disposal methods	
Vaste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Vaste disposal recommendations	: Do not discharge into drains or the environment. Dispose of at authorized waste collection
	point.
SECTION 14: Transport informati	on
SECTION 14: Transport information	
4.1. Basic shipping description	
n accordance with TDG	
DG	
Not regulated for transport	
тос	
Not regulated for transport	
14.3. Air and sea transport	
•	
MDG	

No additional information available

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SECTION 15: Regulatory information

National/international regulations

No additional information available

SECTION 16: Other information

SDS Major/Minor	:	None
Date of issue	:	25/01/2016

Full text of H-statements:

H300	Fatal if swallowed
H310	Fatal in contact with skin
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H320	Causes eye irritation
H330	Fatal if inhaled
H371	May cause damage to organs
H373	May cause damage to organs through prolonged or repeated
	exposure
H400	Very toxic to aquatic life
H402	Harmful to aquatic life
H410	Very toxic to aquatic life with long lasting effects

SDS Canada ACP

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