Fehling's Solution, B Section 1

	Prod	uct	Desc	rint	ion
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Section 2	Hozard Idontification
Supplier:	C2A Sales & Supplies (Barbados) Ltd. #3 Canewood Road, Jackson, St. Michael, Barbados BB11005 1-246-426-1256
Synonyms:	N/A
Product Name: Recommended Use:	Fehling's Solution, B Science education applications

Section 2

Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;



Causes severe skin burns and eye damage. Causes serious eye damage.

GHS Classification:

DANGER

Skin Corrosion/Irritation Category 1A, Serious Eye Damage/Eye Irritation Category 1

Section 3	Composition / Information on
Contains	of unknown toxicity
Acute Toxicity Inhalation Dust/Mist	44.6 % of the mixture consists of ingredient(s)
Contains	of unknown toxicity
Acute Toxicity Inhalation Vapor	44.6 % of the mixture consists of ingredient(s)
	of unknown toxicity
Acute Toxicity Dermal Contains	of unknown toxicity 34.6 % of the mixture consists of ingredient(s)
Acute Toxicity Oral Contains	44.6 % of the mixture consists of ingredient(s)

Ingredients

Chemical Name	CAS # <u>%</u>
Water	7732-18-5 55.4
Potassium Sodium Tartrate, 4-hydrate	6381-59-5 34.6
Sodium Hydroxide	1310-73-2 10

Section 4	First Aid Measures
Emergency and	First Aid Procedures
Inhalation:	IF INHALED: Remove victim to fresh air and keep at rest in a position or
comfortable	preat hing.
Eyes:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Skin Contact:	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.

Rinse skin with water/shower. Wash contaminated clothing before reuse.

Ingestion: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

Section 5

Firefighting Procedures

	Safety Data Sheet
Extinguishing Media:	Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.
Fire Fighting Methods and Protection	n: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Fire and/or Explosion Hazards: Hazardous Combustion Products:	N/A Carbon dioxide, Carbon monoxide, Sodium Oxides
Section 6	Spill or Leak Procedures
Steps to Take in Case Material Is Released or Spilled:	Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits. Persons not wearing appropriate protective equipment should be excluded from area of spill until clean-up has been completed. Ventilate the contaminated area.
Environmental Precautions:	Avoid breathing material. Avoid contact with skin and eyes. Reduce airborne dust and prevent scattering by moistening with water Ventilate the area by opening door and/or turning on fans and blowers. Avoid runoff into storm sewers and ditches that lead to waterways. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container Pick up wash liquid with additional absorbent and place in a disposable container. Block any potential routes to water systems.
Section 7	Handling and Storage

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Section / Handling and Storage Handling: Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Keep container tightly closed in a cool, well-ventilated place. Keep away from oxidizing materials and strong acids. Storage: Store locked up. Suitable for any general chemical storage. Keep container tightly closed in a cool, well-ventilated place.

Storage Code: White - Corrosive. Separate acids from bases; separate oxidizer acids from organic acids.

Section 8

Protection Information

	<u>AC0</u>	GIH	OSHA PEL		
Chemical Name	<u>(TWA)</u>	(STEL)	(TWA)	(STEL)	
Potassium Sodium Tartrate, 4-hydrate	N/A	N/A	N/A	N/A	
Sodium Hydroxide	N/A	N/A	2 mg/m3 TWA	N/A	

Control Parameters Engineering Measures:

Personal Protective Equipment (PPE): Respiratory Protection: Respirator Type(s):

Eye Protection:

Skin Protection:

Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure.

Lab coat, apron, eye wash, safety shower.

No respiratory protection required under normal conditions of use.

None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection. Wear chemical splash goggles when handling this product. Have an eye wash station available.

Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. When leaving work. Where use can result in skin contact, practice good personal hygiene. Use impervious gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly.

Gloves:

Butyl rubber, Polyvinyl chloride, Nitrile, Neoprene, Natural rubber, Natural latex,, Nitrile - Extra Thick (8 mm)

Section 9		Physi	ical Data		
Formula: See Section 3 Molecular Weight: N/A Appearance: Colorless W Odor: None	/hite Liquid		Vapor Pressu	Rate (BuAc=1): N/ y (Air=1): N/A	/Α
Odor Threshold: No data available pH: >/= 14 Melting Point: 70 - 80 C		A	ava	l ated): -3.88 nperature: No data ilable	
Boiling Point: 100 C			-	emperature: No da availa	
Flash Point: No data a Flammable Limits in A			Viscosity: No da Percent Volatile	ita available by Volume: N/A	
Section 10		Rea	ctivity Data	8	
Reactivity: Chemical Stability: Conditions to Avoid: Incompatible Materia		No data available Stable under norma Elevated temperatu Water-reactive mat Strong oxidizing ag Hydroquinone, Org	ires Exposure to erials, Calcium S ents, Silver Nitra	alts, Lead salts, Si te, Strong reducing	g agents, Acids,
Hazardous Decompo	sition Products:	Aldehydes Sodium Oxides, Car	bon dioxide, Carl	oon monoxide	
Hazardous Polymerization:		Will not occur			
Section 11		Toxicity	Data		
Routes of Entry Symptoms (Acute):	N/A N/A				
Delayed Effects:	No data available				
Acute Toxicity: Chemical Name Water		CAS Number 7732-18-5	Oral LD50 Oral LD50 Rat 90000 mg/kg	Dermal LD50	Inhalation LC50
Potassium Sodium Ta	rtrate, 4-hydrate	6381-59-5			
Carcinogenicity: Chemical Name		CAS Number	IARC	NTP	OSHA
Potassium Sodium Ta	rtrate, 4-hydrate	6381-59-5	Not listed	Not listed	Not listed
Sodium Hydroxide		1310-73-2	Not listed	Not listed	Not listed
Chronic Effects: Mutagenicity: Teratogenicity:	No evidence of a No evidence o	mut: of a teratogenic effect	(birth defect).		
Sensitization:	No evidence of a sensitization effect.				
Reproductive:					

Target Organ Effects: Acute: Chronic:	See Section 2 Not listed as a carci	See Section 2 Not listed as a carcinogen by IARC, NTP or OSHA.				
Section 12 Overview: Mobility:		gical hazard. This Caustic materials (be dangerous to p es) are harmful to a		
Persistence:	Dissolved into w	ater				
Bioaccumulation:	No data					
Degradability:	No data					
Other Adverse Effects:	No data					
Chemical Name Water Potassium Sodium Tartrate, Sodium Hydroxide	4-hydrate 63	32-18-5 No data 81-59-5	a available	Rainbow Trout 45.4	4 MG/L	
Section 13		Disposal I	Informat	ion		
Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance. Waste Disposal Code(s): Not Determined						
Section 14		Transport	Information	tion		
Ground - DOT Proper Shippi				oper Shipping Na		
UN1760, Corrosive liquids, n.o.	.s.(sodium hydroxide)		tory Info	rosive liquids, n.o.: rmation	s.(sodium hydrox	(Ide), 8, 11
		Regula		innation		
TSCA Status:	All compo	onents in this proc	luct are on the	e TSCA Inventory.		
Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Potassium Sodium Tartrate, 4hydrate	6381-59-5	No	No	No	No	No
Sodium Hydroxide	1310-73-2	No	1000 lb 1	000lb (454kg) N	lo No RQ	final RQ
California Prop 65: No California Proposition 65 ingredients						

Section 16		Additional
		Information
Revised: 08/21/2018	Replaces: 06/15/2018	Printed: 08-25-2018

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary

ACGIH CAS	American Conference of Governmental Industrial Hygienists Chemical Abstract Service Number	NTP OSHA PEL	National Toxicology Program Occupational Safety and Health Administration Permissible Exposure Limit
CERCLA DOT IARC N/A	Comprehensive Environmental Response, Compensation, and Liability Act U.S. Department of Transportation International Agency for Research on Cancer Not Available	ppm RCRA SARA TLV TSCA IDLH	Parts per million Resource Conservation and Recovery Act Superfund Amendments and Reauthorization Act Threshold Limit Value Toxic Substances Control Act Immediately dangerous to life and health