# Fehling's Solution, B



#### **Product Description**

Product Name: Recommended Use: Synonyms: Distributor:

Section 1

Fehling's Solution, B Science education applications N/A Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215 1-800-227-1150 800-227-1150 (8am-5pm (ET) M-F) 800-424-9300 (Transportation Spill Response 24 hours)

Chemical Information: Chemtrec:

#### Hazard Identification

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

## DANGER

Section 2



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

#### GHS Classification:

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

Acute Toxicity Oral Contains
Acute Toxicity Dermal Contains
Acute Toxicity Inhalation Vapor
Contains
Acute Toxicity Inhalation Dust/Mist
Contains

44.6 % of the mixture consists of ingredient(s) of unknown toxicity 34.6 % of the mixture consists of ingredient(s) of unknown toxicity 44.6 % of the mixture consists of ingredient(s) of unknown toxicity

44.6 % of the mixture consists of ingredient(s) of unknown toxicity

## **Section 3**

#### **Composition / Information on Ingredients**

**First Aid Measures** 

<u>Chemical Name</u>	<u>CAS #</u>	<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

#### Emergency and First Aid Procedures

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy
to do. Continue rinsing.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with
water/shower. Wash contaminated clothing before reuse.
IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

#### Section 5

#### **Firefighting Procedures**

Extinguishing Media:

Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.

	Salety Da			
Fire Fighting Methods and Protection: Fire and/or Explosion Hazards: Hazardous Combustion Products:	Firefighters should wea breathing apparatus. N/A Carbon dioxide, Carbor		ment and NIOSH approv Oxides	ed self-contained
Section 6	Spill or Leak	Procedures		
Steps to Take in Case Material Is       Example         Released or Spilled:       example         net       cir         ar       sp         pr       con         Environmental Precautions:       Av         Ref       op         that       a         ar       a         ar       a         ar       a         br       a         con       a         con <th colspan="4"><b>Spill or Leak Procedures</b> 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. 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 Pick up wash liquid with additional absorbent and place in a disposable container. Block any potential routes to water systems.</th>	<b>Spill or Leak Procedures</b> 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. 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 Pick up wash liquid with additional absorbent and place in a disposable container. Block any potential routes to water systems.			
Section 7	Handling ar	nd Storage		
gloves/protective cloth         place. Keep away from         Storage:       Store locked up. Suita         Keep container tightly	ume/gas/mist/vapors/spra hing/eye protection/face p m oxidizing materials and able for any general chem / closed in a cool, well-ver parate acids from bases;	rotection. Keep conta strong acids. ical storage. ntilated place.	iner tightly closed in a co	
Section 8	Protection I	nformation		
	ACG		OSHA	PFI
<u>Chemical Name</u> Potassium Sodium Tartrate, 4-hydrate Sodium Hydroxide	(TWA) N/A N/A	(STEL) N/A N/A	(TWA) N/A 2 mg/m3 TWA	(STEL) N/A N/A
Control Parameters Engineering Measures: Personal Protective Equipment (PPE): Respiratory Protection: Respirator Type(s): Eye Protection: Skin Protection:	<ul> <li>Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure.</li> <li>Lab coat, apron, eye wash, safety shower.</li> <li>No respiratory protection required under normal conditions of use.</li> <li>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.</li> <li>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. 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.</li> <li>Buty rubber, Polyvinyl chloride, Nitrile, Neoprene, Natural rubber, Natural latex,, Nitrile - Extra Thick (8 mm)</li> </ul>			
Gloves: Section 9	drinking, and when leav personal hygiene. Use replace at regular interv Butyl rubber, Polyvinyl Extra Thick (8 mm)	ving work. Where use impervious gloves. In vals. Clean protective chloride, Nitrile, Neop	spect gloves for chemica equipment regularly.	t, practice good I break-through and

Formula: See Section 3 Molecular Weight: N/A Appearance: Colorless White Liquid Odor: None

Vapor Pressure: N/A Evaporation Rate (BuAc=1): N/A Vapor Density (Air=1): N/A Specific Gravity: N/A

Odor Threshold: No data available **pH:** >/= 14 Melting Point: 70 - 80 C Boiling Point: 100 C Flash Point: No data available Flammable Limits in Air: N/A

Solubility in Water: Soluble Log Pow (calculated): -3.88 Autoignition Temperature: No data available Decomposition Temperature: No data available Viscosity: No data available Percent Volatile by Volume: N/A

#### Section 10

Reactivity: **Chemical Stability:** Conditions to Avoid: **Incompatible Materials:** 

**Hazardous Decomposition Products:** Hazardous Polymerization:

N/A

No data available

N/A

Water-reactive materials, Calcium Salts, Lead salts, Strong acids, Strong oxidizing agents, Silver Nitrate, Strong reducing agents, Acids, Hydroquinone, Organic halides,

Reactivity Data

Phosphorus, Alcohols, Metals, Aldehydes

Elevated temperatures Exposure to moisture

No data available

Stable under normal conditions.

Sodium Oxides, Carbon dioxide, Carbon monoxide Will not occur

Section 11

**Routes of Entry** 

Symptoms (Acute):

**Delayed Effects:** 

Toxicity Data

Chemical Name	CAS Number	Oral LD50	Dermal LD50	Inhalation LC
Water	7732-18-5	Oral LD50 Rat 90000 mg/kg		
Potassium Sodium Tartrate, 4-hydrate	6381-59-5			
Carcinogenicity:				
Chemical Name	CAS Number	IARC	NTP	OSHA
Potassium Sodium Tartrate, 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:	No evidence of a mutagenic effect.
Teratogenicity:	No evidence of a teratogenic effect (birth defect).
Sensitization:	No evidence of a sensitization effect.
Reproductive:	No evidence of negative reproductive effects.
Target Organ Effects:	
Acute:	See Section 2
Chronic:	Not listed as a carcinogen by IARC, NTP or OSHA.

#### Section 12

#### **Ecological Data**

Overview:		Moderate ecological hazard. This product may be dangerous to plants and/or wildlife. Caustic materials (alkalies, bases) are harmful to aquatic life in low concentrations.				
Mobility:	No data `	. ,	•			
Persistence:	Dissolved in	nto water				
Bioaccumulation:	No data					
Degradability:	No data					
Other Adverse Effects:	No data					
Chemical Name		CAS Number	Eco Toxicity			
Water		7732-18-5	No data available			
Potassium Sodium Tartrate, 4	-hydrate	6381-59-5				

1310-73-2

Potassium Sodium Tartrate, 4-hydrate Sodium Hydroxide

Aquatic LC50 (96h) Rainbow Trout 45.4 MG/L

#### Section 13

**Disposal Methods:** 

Waste Disposal Code(s):

#### **Disposal Information**

Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance. Not Determined

#### Section 14

## **Transport Information**

## Ground - DOT Proper Shipping Name:

UN1760, Corrosive liquids, n.o.s.(sodium hydroxide), 8, II

Air - IATA Proper Shipping Name:

UN1760, Corrosive liquids, n.o.s.(sodium hydroxide), 8, II

## Section 15

**Regulatory Information** 

**Additional Information** 

TSCA Status:	All components in this product are on the TSCA Inventory.					
Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Potassium Sodium Tartrate, 4- hydrate	6381-59-5	No	No	No	No	No
Sodium Hydroxide	1310-73-2	No	1000 lb RQ	1000lb (454kg) final RQ	No	No

#### Section 16

Revised: 09/09/2015

#### Replaces: 09/03/2014

Printed: 10-29-2015

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.

#### Glossarv

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