# **Section 1 - Chemical Product and Company Identification**

**MSDS Name:** 

Fehling's Solution "B"

**Catalog Numbers:** 

LC14210

Synonyms:

**Company Identification:** 

LabChem, Inc. 200 William Pitt Way Pittsburgh, PA 15238

**Company Phone Number:** 

(412) 826-5230

**Emergency Phone Number:** 

(800) 424-9300

**CHEMTREC Phone Number:** 

(800) 424-9300

# **Section 2 - Composition, Information on Ingredients**

CAS#	Chemical Name:	Percent
7732-18-5	Water	balance
1310-73-2	Sodium hydroxide	9
304-59-6	sodium potassium tartrate	31

# **Section 3 - Hazards Identification**

## **EMERGENCY OVERVIEW**

Appearance: Colorless

Warning! Causes severe eye and skin irritation. May cause severe respiratory tract

irritation with possible burns. Target Organs: Noneknown.

## **Potential Health Effects**

Eye:

Maycausesevereeyeburns. Maycauseulceration of the the cornea with loss of vision

Skin

Maycausesevereskinirritationandburns.



#### Ingestion:

Maycausecorrosionandpermanenttissuedestructionoftheesophagusanddigestivetract. Maycausealopecia (loss of hair). Latent carcinoma is thought to result from tissue destruction and scar tissue formation.

#### Inhalation

Inhalationofvapormaycausesevererespiratorytractirritation.

#### **Chronic:**

Prolongedinhalationmay cause bronchialirritation, coughing, and bronchial pneumonia. Dermatitis, conjunctivitis with corneal damage may occur.

## **Section 4 - First Aid Measures**

#### Eyes:

Flusheyeswithplentyofwaterforatleast15minutes,occasionallyliftingtheupperandlowerlidsuntilnoevidence of chemical remains. Get medical aid at once.

#### Skin:

Getmedicalaid.Immediatelyflushskinwithplentyofsoapandwaterforatleast15minuteswhileremoving contaminated clothing and shoes. Remove contaminated clothing and shoes. Cover burns with a dry sterile bandage (secure, not tight).

#### Ingestion:

Getmedicalaidatonce.Medicalpersonnelmaydoesophagoscopy,irrigateinjuredareawith1% aceticacidto neutralize alkali. Give oxygen if respiration is depressed. Do not use gastric lavage or induce vomiting.

#### Inhalation

Giveartificialrespirationifnecessary.Getmedicalaid.Keepvictimwarm,atrest.Movevictimtofreshair.

#### Notes to Physician:

Treat symptomatically and supportively.

# **Section 5 - Fire Fighting Measures**

#### **General Information:**

Negligible fire and explosion hazard when exposed to heat or flame. Move container if possible, avoid breathing vapors or dust.

### **Extinguishing Media:**

Forsmallfires, usedrychemical, carbondioxide, halon, orwaters pray.

#### **Autoignition Temperature:**

No information found.

#### **Flash Point:**

No information found.

#### **NFPA Rating:**

CAS# 7732-18-5: Not published. CAS# 1310-73-2: Not published. CAS# 304-59-6: Not published.

### **Explosion Limits:**

Lower: Upper:



## **Section 6 - Accidental Release Measures**

#### **General Information:**

Use proper personal protective equipment as indicated in Section 8.

### Spills/Leaks:

Absorbspillswithabsorbent(vermiculite,sand,fuller'searth)andplaceinplasticbagsforlaterdisposal.Material may be neutralized to pH 7 with citric acid or other suitable neutralizing agent.

# Section 7 - Handling and Storage

### Handling:

Washthoroughlyafterhandling. Avoid breathing dust, vapor, mist, orgas.

#### Storage:

Storeprotectedfrommoisture. Storecapped at room temperature. Protect from heat and incompatibles. Store away from incompatible substances especially where flammable or poisonous gases may accumulate in storage.

## **Section 8 - Exposure Controls, Personal Protection**

### **Engineering Controls:**

Providelocalexhaustorgeneraldilutionventilation.

#### **Exposure Limits**

Chemical Name:	ACGIH	NIOSH	OSHA
Water	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.
Sodium hydroxide	None of the components are on this list.	None of the components are on this list.	2 mg/m3 TWA;
Sodiumpotassiumtartrate	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.

#### **OSHA Vacated PELs**

## **Personal Protective Equipment**

#### Eyes:

Donotwear contact lenses when working with chemicals. An eye was hountain should be available in the immediate work area. Wear splash-proof safety goggles.

#### Skin:

Wearalkaliresistantgloves.

#### Clothing:

Wearalkaliresistantprotective clothing.

#### **Respirators:**

Notrequiredfornormaluse.100mg/m3:HiEPF/SAF/SCBAF.

200 mg/m3: PAPHiEF/SAF: PD, PP, CF.

Escape: DMXSF/SCBAF. Firefighting-- any self-contained breathing apparatus with full facepiece operated in pressure-demand mode.



# **Section 9 - Physical and Chemical Properties**

Physical State: Clear liquid

Color: ColorlessOdor: OdorlesspH: Alkaline

Vapor Pressure: 14mm Hg @20°C

**Vapor Density:** 0.62 **Evaporation Rate:** < ether

Freezing/Melting Point:  $32^{\circ}F$  (  $0.00^{\circ}C$ )

**Decomposition Temperature:** No information found.

**Solubility in water:** Soluble. **Specific Gravity/Density:** 1.0

Molecular Formula: No information found.

Molecular Weight No information found.

# Section 10 - Stability and Reactivity

### **Chemical Stability:**

Stableundernormaltemperaturesandpressures.

## **Conditions to Avoid:**

Incompatible materials.

### **Incompatibilities with Other Materials**

Acids, aluminum, ammonium salts, halocarbons.

#### **Hazardous Decomposition Products**

Toxic gases.

## **Hazardous Polymerization**

Has not been reported

# **Section 11 - Toxicological Information**

#### RTECS:

CAS# 7732-18-5: ZC0110000. CAS# 1310-73-2: WB4900000. CAS# 304-59-6 unlisted.

#### LD50/LC50:

CAS# 7732-18-5:

Oral, rat: LD50 = >90 mL/kg.

CAS# 1310-73-2:

Noinformationfound.CAS#304-59-6:

Noinformationfound.

### Carcinogenicity:

CAS# 7732-18-5: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.



CAS# 1310-73-2: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65. CAS# 304-59-6: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

#### **Epidemiology:**

Sodium hydroxide-1%/24hrs eye-monkey severe irritation; 500mg/24hrs skin-rabbit severe irritation; 50ug/24hrs eye-rabbit severe irritation; 100mg rinsed eye-rabbit severe irritation; 100mg rinsed eye-rabbit severe irritation;

Teratogenicity:
Reproductive:
Mutagenicity:
Neurotoxicity:

# **Section 12 - Ecological Information**

No information found.

# **Section 13 - Disposal Considerations**

Dispose of in accordance with Federal, State, and local regulations.

# **Section 14 - Transport Information**

#### **US DOT**

**Shipping Name:** Sodium hydroxide solution

Hazard Class: 8
UN Number: UN1824
Packing Group: PG II

# **Section 15 - Regulatory Information**

#### **US Federal**

#### **TSCA**

CAS#7732-18-5islistedontheTSCAInventory.

CAS#1310-73-2islisted on the TSCA Inventory.

CAS#304-59-6islistedontheTSCAInventory.

#### SARA Reportable Quantities (RQ)

CAS#1310-73-2:finalRQ=1000pounds(454kg)

#### **CERCLA/SARA Section 313**

None of the components are on this list.

#### **OSHA - Highly Hazardous**

None of the components are on this list.

#### **US State**



## State Right to Know

Sodium hydroxide can be found on the following state Right-to-Know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.

### **California Regulations**

## **European/International Regulations**

### Canadian DSL/NDSL

CAS# 7732-18-5 is listed on Canada's DSL List.

CAS# 1310-73-2 is listed on Canada's DSL List.

CAS# 304-59-6 is listed on Canada's DSL List.

#### **Canada Ingredient Disclosure List**

CAS# 7732-18-5 is not listed on Canada's Ingredient Disclosure List.

CAS# 1310-73-2 is listed on Canada's Ingredient Disclosure List.

CAS# 304-59-6 is not listed on Canada's Ingredient Disclosure List.

## **Section 16 - Other Information**

MSDS Creation Date: February 8, 1998 Revision Date: September 20, 2007

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