

# Solutek

## SAFETY DATA SHEET

### Section 1: Product and Company Identity

Name: **SoluDent Automatic Developer**  
Product Number: **206-29, 206-24**  
Product Use: **Photographic Developer**  
Manufacturer: Solutek Corporation 94 Shirley Street Boston, MA 02119  
Emergency Health, Safety & Environmental information, call CHEMTREC 1-800-424-9300 (USA)  
For other information call 617-445-4335

### Section 2 – Hazard(s) Identification

Emergency Overview – Alkaline liquid

Eyes - Irritating to the eyes

Skin - May cause skin irritation. Prolonged contact may dry skin.

Ingestion - May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, vomiting & diarrhea.

Chronic effects : None known

HMIS: Health 2, Flammability 0, Reactivity 0,

### Section 3 – Composition/information on ingredients

<u>Component</u>	<u>CAS #</u>	<u>%</u>
Water	7732-18-5	80-90
Hydroquinone	123-31-9	7-10
Potassium hydroxide	1310-58-3	6-10
Sodium sulfite	7757-83-7	1-5
Sodium metaborate	10555-76-7	1-3

### Section 4 - First Aid Measures

**Eye contact.** Flush eyes immediately with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.

**Skin contact.** Flush skin with copious amount of water. Get medical attention if symptoms occur.

**Ingestion.** If swallowed, do not induce vomiting. Give large quantities of water. Never give anything by mouth to an unconscious person. Call a physician. Refer all cases of ingestion to a poison-control center or a physician. Vomiting should normally be initiated only on their advice and by the means they specify.

**Inhalation.** If inhaled remove to fresh air. If not breathing, give artificial respiration. Give oxygen if breathing is difficult. Call a physician.

### Section 5: - Fire fighting measures

Extinguishing media Suitable: Water spray, carbon dioxide, dry chemical, alcohol foam.

Unsuitable : None

Special protective equipment/precautions for firefighters : Wear self-contained breathing apparatus and protective clothing. Fire or excessive heat may produce hazardous decomposition products.( carbon dioxide, oxides of sulfur)

**NFPA** Health Hazard – 2

Flammability -- 0

Stability – 0

Page 1 of 3 (206-24, 206-29)

**Section 6 : Accidental release measures**

Contain spill if safe to do so.

For Small Amounts : If permitted, flush to sewer with large amounts of water. Clean surfaces thoroughly to remove residual contamination.

For Large Spills : Absorb spill with suitable inert material, then place in a container for disposal.

**Section 7 : Handling and storage****Precautions for safe handling:**

Use with adequate ventilation

Avoid contact with eyes and skin

Wash hands before breaks and at the end of work

Wear gloves

**Conditions for safe storage:**

Store in original container.

Keep between 40 and 90 degree F

**Section 8 Exposure controls/personal protection****Exposure limits**

Chemical Name	OSHA PEL	ACGIH (TLV)
Hydroquinone:	2 mg/m3 TWA	1 mg/m3 TWA
Potassium hydroxide	2 mg/m3 TWA	2 mg/m3 TWA
Sodium metaborate	5 mg/m3 TWA (dust)	1 mg/m3 TWA

**Ventilation:** Good general ventilation (typically 10 air changes per hour) is recommended.

**Respiratory Protection:** None should be needed in normal handling

**Eye protection:** Wear safety glasses with side shields or goggles.

**Skin protection:** Wear chemical resistant gloves and protective clothing appropriate for the risk of exposure.

**Section 9 - Physical and chemical properties**

**Physical Form :** Liquid

**Boiling Point :** Over 100° C

**Solubility in water :** Complete

**Flash point :** None

**Color :** Slight straw

**Odor :** Odorless

**Specific gravity :** (water=1) 1.12

**pH :** 10.3

**Section 10 – Stability and reactivity**

**Chemical Stability** :Stable under normal conditions

**Possibility of hazardous reactions** : None known

**Incompatible materials**: Strong acids.

**Hazardous decomposition products**: Sulfur dioxide.

**Section 11 Toxicological information**

General information:

Skin: Irritant

Sensitization: None known

Carcinogenicity – Not listed

Mutagenic Effects: Unknown

Reproductive Toxicity: Unknown

Hydroquinone

Acute toxicity – 320mg/kg ( Rat) LD50 Dermal >4800mg/kg(rat)

Sodium sulfite

Acute toxicity – 820 mg/kg (Rat)

Sodium metaborate

Acute toxicity – 2403 mg/kg(Rat)

**Section 12 Ecological information**

This material is a moderately alkaline aqueous solution which may cause adverse environmental effects.

However the material has not been tested for environmental effects.

It is expected to have a moderate biochemical oxygen demand and may cause oxygen depletion in some aquatic systems. After dilution with large amounts of water, followed by secondary waste treatment, this material is not expected to cause adverse environmental effects.

**Section 13 Disposal considerations**

Discharge, treatment, or disposal may be subject to federal, state or local regulations. Please check the regulations in your area. Empty containers contain residual material, so dispose of appropriately.

**Section 14 Transportation information**

DOT : Not a regulated material.

**Section 15 Regulatory information**

Chemicals subject to reporting requirements of Section 313 or Title III of SARA of 1985 and CFR part 372: :

Hydroquinone 123-31-9 Reportable Quantity (RQ) 100 lb

SARA 313 TV – 1 %

**Section 16 Other information**

This information is based on our present knowledge. However, this shall not guarantee any specific product features and shall not establish a legally valid contractual relationship.

This document was created 6-6-2014. No revisions

# Solutek

## SAFETY DATA SHEET

### Section 1: Product and Company Identity

Name: **SoluDent Automatic Fixer**  
Product Number: **206-29, 208-24**  
Product Use: **Photographic Fixer**  
Manufacturer: Solutek Corporation 94 Shirley Street Boston, MA 02119  
Emergency Health, Safety & Environmental information, call CHEMTREC 1-800-424-9300 (USA)  
For other information call 617-445-4335

### Section 2 – Hazard(s) Identification

Emergency Overview – Acidic liquid

Eyes Irritating to the eyes

Skin May cause skin irritation. Prolonged contact may dry skin.

Ingestion May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, vomiting & diarrhea.

Chronic effects : None known

HMS: Health 1, Flammability 0, Reactivity 0,

### Section 3 – Composition/information on ingredients

<u>Component</u>	<u>CAS #</u>	<u>%</u>
Water	7732-18-5	70-80
Ammonium thiosulfate	7783-18-8	10-15
Sodium sulfite	7757-83-7	1-3
Acetic acid	64-19-7	1-4
Aluminum sulfate	10043-01-3	.2-1

### Section 4 : First Aid Measures

**Eye contact.** Flush eyes immediately with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.

**Skin contact. Flush skin with copious amount of water.** See a physician if symptoms persist.

**Ingestion.** If swallowed, do not induce vomiting. Give large quantities of water. Never give anything by mouth to an unconscious person. Call a physician. Refer all cases of ingestion to a poison-control center or a physician. Vomiting should normally be initiated only on their advice and by the means they specify.

**Inhalation.** If inhaled remove to fresh air. If not breathing, give artificial respiration. Give oxygen if breathing is difficult. Call a physician.

### Section 5: - Fire fighting measures

Extinguishing media Suitable: Water spray, carbon dioxide, dry chemical, alcohol foam.

Unsuitable : None

Special protective equipment/precautions for firefighters : Wear self-contained breathing apparatus and protective clothing. Fire or excessive heat may produce hazardous decomposition products.( carbon dioxide, oxides of sulfur, ammonia gas)

**NFPA** Health Hazard – 2

Flammability – 0

Stability – 0

**Section 6 : Accidental release measures**

Contain spill if safe to do so.

For Small Amounts : If permitted, flush to sewer with large amounts of water. Clean surfaces thoroughly to remove residual contamination.

For Large Spills : Absorb spill with suitable inert material, then place in a container for disposal.

**Section 7 : Handling and storage****Precautions for safe handling:**

Use with adequate ventilation

Avoid contact with eyes and skin

Wash hands before breaks and at the end of work

Wear gloves

**Conditions for safe storage:**

Store in original container.

Keep between 40 and 90 degree F

**Section 8 Exposure controls/personal protection****Exposure limits**

Chemical Name	OSHA PEL	ACGIH (TLV)
Acetic acid	25 mg/m3	10 ppm

**Ventilation:** Good general ventilation (typically 10 air changes per hour) is recommended.

**Respiratory Protection:** None should be needed in normal handling

**Eye protection:** Wear safety glasses with side shields or goggles.

**Skin protection:** Wear chemical resistant gloves and protective clothing appropriate for the risk of exposure.

**Section 9 - Physical and chemical properties**

**Physical Form :** Liquid

**Boiling Point :** Over 100 C

**Solubility in water :** Complete

**Flash point :** None

**Color :** Colorless

**Odor :** Odorless

**Specific gravity :** (water=1) 1.10

**pH :** 4.5

**Section 10 – Stability and reactivity**

**Chemical Stability** :Stable under normal conditions

**Possibility of hazardous reactions** : None known

**Incompatible materials**: Strong acids.

**Hazardous decomposition products**: Sulfur dioxide.

**Section 11 Toxicological information**

General information:

Skin: Irritant                      Sensitization: None known                      Carcinogenicity – Not listed  
Mutagenic Effects: Unknown                      Reproductive Toxicity: Unknown

Acetic acid                      Acute toxicity – 3310mg/kg ( Rat) LD50 Dermal >1060mg/kg(rat)  
Sodium sulfite                      Acute toxicity – 820mg/kg (Rat)

**Section 12 Ecological information**

This material is a moderately acidic aqueous solution which may cause adverse environmental effects.

However the material has not been tested for environmental effects.

It is expected to have a moderate biochemical oxygen demand and may cause oxygen depletion in some aquatic systems. After dilution with large amounts of water, followed by secondary waste treatment, this material is not expected to cause adverse environmental effects.

**Section 13 Disposal considerations**

Discharge, treatment, or disposal may be subject to federal, state or local regulations. Please check the regulations in your area. Empty containers contain residual material so dispose of appropriately.

**Section 14 Transportation information**

DOT : Not a regulated material.

**Section 15 Regulatory information**

SARA reportable quantity (RQ) Ammonium Thiosulfate 5000lb, Acetic acid 500 lb.  
SARA Section 302,304,313 Hazardous components – Ammonium Thiosulfate TV -1%

**Section 16 Other information**

This information is based on our present knowledge. However, this shall not guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This document was created 6-6-2014. No revisions