

# SOLUJET MSDS

## Section 1 : MANUFACTURER INFORMATION

**Supplier:** Electron Microscopy Sciences  
P.O. Box 550  
1560 Industry Road  
Hatfield, PA 19440

**emergency  
phone number:** 215-412-8400

**Information phone :** 215-412-8400

**Supplier MSDS date:** 10/03/2008

**Catalog number:** 60536-01, 60536-04

**D.O.T. Classification:** UN 1760,  
Corrosive Liquid, n.o.s.  
(contains potassium hydroxide),  
8, PG II



## Section 2 : HAZARDOUS INGREDIENTS

C.A.S.	CONCENTRATION %	Ingredient Name	T.L.V.	LD/50	LC/50
1310-58-3	7-13	POTASSIUM HYDROXIDE	2 MG/M3 (CL)	273 MG/KG RAT ORAL	NOT AVAILABLE
1344-09-8	5-10	SODIUM SILICATE	NOT AVAILABLE	1960 MG/KG RAT ORAL >4640 MG/KG RABBIT DERMAL	NOT AVAILABLE

## Section 3 : PHYSICAL / CHEMICAL CHARACTERISTICS

**Physical state:** Liquid.

**Appearance & odor:** Colourless liquid.  
Slight chlorine odour.

**Odor threshold (ppm):** Not available.

**Vapour pressure** (mm Hg @ 20C).  
**(mmHg):** 17

**Vapour density (air=1):** >1

**Volatiles (%)**

**By volume:** Not available.

**Evaporation rate** (water = 1).  
**(butyl acetate ≈ 1):**

**Boiling point (°C):** >212F (100C)  
**Freezing point (°C):** Not available.  
**pH:** (1% solution).  
12.4  
**Specific gravity @ 20 °C:** (water = 1).  
1.310  
**Solubility in water (%):** Complete.  
**Coefficient of water\oil dist.:** Not available.  
**VOC:** None

#### Section 4 : FIRE AND EXPLOSION HAZARD DATA

**Flammability:** Not flammable.  
**Conditions of flammability:** Surrounding fire.  
**Extinguishing media:** Carbon dioxide, dry chemical, foam.  
Water  
Water fog.  
**Special procedures:** Self-contained breathing apparatus required.  
Firefighters should wear the usual protective gear.  
Use water to cool exposed containers.  
**Auto-ignition temperature:** Not available.  
**Flash point (°C), method:** None  
**Lower flammability limit (% vol):** Not applicable.  
**Upper flammability limit (% vol):** Not applicable.  
Not available.  
**Sensitivity to mechanical impact:** Not available.  
**Hazardous combustion products:** Oxides of carbon (COx).  
Smoke  
Fumes  
Oxygen.  
Carbon compounds.  
Hydrogen compounds.  
**Rate of burning:** Not available.  
**Explosive power:** Not available.

#### Section 5 : REACTIVITY DATA

**Chemical stability:** Stable under normal conditions.  
**Conditions of instability:** Extreme temperatures.  
**Hazardous polymerization:** Will not occur.  
**Incompatible substances:** Strong acids.  
Strong oxidizers.  
**Hazardous decomposition products:** See hazardous combustion products.

## Section 6 : HEALTH HAZARD DATA

**Route of entry:** Skin contact, eye contact, inhalation and ingestion.

### **Effects of Acute Exposure**

**Eye contact:** Pain  
Irritant.  
Causes chemical burns.

**Skin contact:** Irritant.  
Corrosive.  
Causes chemical burns.

**Inhalation:** Irritating to the mucous membranes.  
Corrosive.  
Irritant of the respiratory tract.

**Ingestion:** May cause digestive tract irritation.  
Corrosive.  
Abdominal pain.  
Gastric discomfort.  
Harmful if swallowed.

**Effects of chronic exposure:** None known.

**LD50 of product, species & route:** >500 mg/kg rat oral.

**LC50 of product, species & route:** Not available for mixture, see the ingredients section.

**Exposure limit of material:** Not available for mixture, see the ingredients section.

**Sensitization to product:** Not available.

**Carcinogenic effects:** Not listed as a carcinogen.

**Reproductive effects:** Not available.

**Teratogenicity:** Not available.

**Mutagenicity:** Not available.

**Synergistic materials:** Not available.

**Medical conditions aggravated by exposure:** Not available.

### **First Aid**

**Skin contact:** Remove contaminated clothing.  
Wash thoroughly with soap and water.  
Seek medical attention if irritation persists.  
Do not attempt to neutralize with chemical agents.

**Eye contact:** Immediately flush eyes with running water for a minimum of 15 minutes. Hold eyelids open during flushing. Obtain medical attention immediately.  
Check for and remove contact lenses.

**Inhalation:** Remove victim to fresh air.  
If irritation persists, seek medical attention.  
Rinse mouth and nose with fresh water.

**Ingestion:** Dilute with large quantities of water or milk.  
Do not induce vomiting, seek medical attention.  
Never give anything by mouth to an unconscious person.

## Section 7 : PRECAUTIONS FOR SAFE HANDLING AND USE

**Leak/Spill:** Contain the spill.  
Soak up with an absorbent material.  
Area will be slippery until cleaned.  
Wear appropriate protective equipment.  
Shovel into containers.  
Flush residue or small spills to sanitary sewer.  
Notify the appropriate authorities as required.

**Waste disposal:** Dispose of all waste in accordance with local, State, and Federal regulations.

**Handling procedures and equipment:** Protect against physical damage.  
Avoid breathing vapors/mists.  
Use adequate ventilation.  
Wash thoroughly after handling.  
Keep out of reach of children.  
Avoid contact with skin, eyes and clothing.  
Wear suitable protective clothing.  
Launder contaminated clothing prior to reuse.

**Storage requirements:** Keep containers closed when not in use.  
Avoid extreme temperatures.

## Section 8 : CONTROL MEASURES

### Precautionary Measures

**Gloves/Type:**



Neoprene or rubber gloves.  
(with cuffs).

**Respiratory/Type:**



If exposure limit is exceeded, wear a NIOSH approved respirator.

**Eye/Type:**



Chemical safety goggles with side-shields.

**Footwear/Type:** Safety shoes per local regulations.

**Clothing/Type:** As required to prevent skin contact.

**Other/Type:** Eye wash facility should be in close proximity.  
Emergency shower should be in close proximity.

**Ventilation requirements:** Local exhaust ventilation.