



# MATERIAL SAFETY DATA SHEET

**Product:****057556 Cation Regenerant Solution (2.06 M TBAOH), 100mL, Pkg of 4**

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The following information is believed to be accurate and is currently the best information available to us. However, we make no warranties, express or implied, with respect to the information supplied and we assume no liability resulting from its use.

**2. HAZARDOUS IDENTIFICATION**

<b>HAZARD CLASS</b>	<b>Corrosive - Base</b>		<b>NFPA</b>	<b>HMIS</b>
<b>Eyes:</b>	Corrosive	<b>HEALTH</b>	3	3
<b>Skin:</b>	Corrosive	<b>FLAMMABILITY</b>	0	0
<b>Ingestion:</b>	Corrosive	<b>REACTIVITY</b>	0	0
<b>Inhalation:</b>	Corrosive	<b>NFPA SPECIAL</b>	-	-
		<b>HMIS PPE</b>		

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

<b>HAZARDOUS COMPONENTS</b>	<b>Water</b>	<b>Tetrabutyl ammonium Hydroxide</b>				
<b>PERCENT (%)</b>	45.0	55.0	0	0	0	0
<b>CAS NO.</b>	7732-18-5	2052-49-5				
<b>EINECS NO.</b>	231-791-2	218-147-6				
<b>RISKS</b>		R20/22, R36				
<b>SAFETY</b>		S20, S26, S36/37/39, S45				



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## 4. FIRST AID MEASURES

- GENERAL:** Remove contaminated clothing, wash thoroughly before reuse.
- EYES:** Flush with water for at least 15 minutes occasionally raising upper and lower eyelids.
- SKIN:** Remove contaminated clothing and flush with water thoroughly
- INHALATION:** Move to fresh air
- INGESTION:** If large amounts are swallowed, get medical help immediately. If patient is conscious, give large quantities of water

## 5. FIRE FIGHTING MEASURES

### UNUSUAL FIRE AND EXPLOSION:

### HAZARDS:

- EXTINGUISHING MEDIA:** Carbon Dioxide, Foam, Dry Chemical  
(Note: Carbon Dioxide is one of the decomposition products)

- SPECIAL FIRE FIGHTING PROCEDURES:** Although the product is not combustible, firefighters subject to products of combustion should wear full-protective clothing including self-contained breathing apparatus

## 6. ACCIDENTAL RELEASE MEASURES

- Ventilate area.  
Wear appropriate protective clothing and eye protection.  
Contain spill.  
Neutralize, collect or absorb with an inert material (vermiculite, dry sand, earth, etc.)  
Mop up and store in a suitable waste container.  
Wash contaminated areas with soap and water.

## 7. HANDLING AND STORAGE

- Ensure good ventilation.  
Have an eye wash in the immediate area in case of emergency.  
Store at room temperature  
Keep container tightly closed  
Use good laboratory practice when working with any chemical whether it is considered hazardous or not.



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## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

### ROUTES OF ENTRY

**INHALATION:** Yes

**SKIN:** Yes

**INGESTION:** Yes

### HEALTH HAZARDS

**ACUTE:** May cause irritation of eyes and mucous membranes

**CHRONIC:** Unknown

### VENTILATION

**LOCAL EXHAUST:** Good laboratory ventilation is acceptable.

**MECHANICAL (GENERAL):** Use in hoods if possible

**SPECIAL:** None

**OTHER:** None

### PROTECTIVE CLOTHING OR EQUIPMENT

**GLOVES:** Disposable laboratory gloves are adequate

**EYE PROTECTION:** Glasses or goggles.

**RESPIRATORY:** None

**OTHER:** Lab coats

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** Clear

**ODOR:** None

**pH:**

**MOLECULAR WEIGHT:** 259.54 (Tetrabutylammonium hydroxide)

**MELTING POINT:** Not Applicable

**BOILING POINT:** Approximately 100 degrees C

**AUTOIGNITION TEMPERATURE:**

**FLASH POINT:** Not Applicable

**LOWER EXPLOSION LIMIT:** Not Applicable

**UPPER EXPLOSION LIMIT:** Not Applicable

**SPECIFIC GRAVITY:** Approximately 1



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## 10. STABILITY & REACTIVITY

**STABILITY/CONDITIONS TO AVOID:** Stable

**INCOMPATIBILITY (MATERIALS TO AVOID):** Water-reactive materials

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Carbon Monoxide, Carbon Dioxide, and Nitrous Oxides.

**HAZARDOUS POLYMERIZATION:** Will not occur

## 11. TOXICOLOGY INFORMATION

### PRODUCT TOXICOLOGY INFORMATION:

**SYMPTOMS AND SIGNS OF EXPOSURE:** May cause minor soreness or redness of eyes or mucous membranes.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** Unknown

**EMERGENCY AND FIRST AID PROCEDURES:** In case of contact, wash skin with copious amounts of water.  
Flush eyes with copious amounts of water for at least 15 minutes.  
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.  
Submit to medical examination.

**CARCINOGENICITY:** No data found

**RTECS #:** No data found

**ACGIH TLV TWA:** No data found

**OSHA PEL:** No data found

**NTP:** No data found

**IARC Monographs:** No data found

### HAZARDOUS COMPONENT TOXICOLOGY INFORMATION:

Hazardous Components:	Water	Tetrabutyl ammonium Hydroxide
<b>RTECS #</b>	ZC0110000	BS5425000
<b>OSHA PEL</b>	Not Found	Not Found
<b>ACGIH TLV</b>	Not Found	Not Found
<b>TOXICITY DATA</b>	None	SCU-MUS 19 MG/KG



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## 12. ECOLOGICAL INFORMATION

No information is found on environmental toxicity for this solution

## 13. DISPOSAL CONSIDERATIONS

Contact local hazardous materials or chemical waste disposal agency for regulations.

## 14. TRANSPORT INFORMATION

### IATA CLASSIFICATION: IATA Dangerous Goods

**UN ID NUMBER:** 3316  
**PROPER SHIPPING NAME:** Chemical Kit  
**CLASS OR DIVISION:** 9  
**SUB RISK:** None  
**HAZARD LABEL(S):** Miscellaneous  
**PACKAGING GROUP:** Not Applicable  
**LIMITED QUANTITY PKG INSTRUCTION:** Y915  
**MAXIMUM LIMITED QUANTITY:** 1 Kg  
**SPECIAL PROVISIONS:** A44, A802  
**ERG CODE:** 9L

## 15. REGULATORY INFORMATION

**PRODUCT RISK STATEMENTS:** R20 Harmful by inhalation  
R21 Harmful in contact with skin  
R22 Harmful if swallowed  
R34 Causes burns

**PRODUCT SAFETY STATEMENTS:** S7 Keep container tightly closed  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice  
S36 Wear suitable protective clothing  
S37 Wear suitable gloves  
S39 Wear eye/face protection  
S45 In case of accident or if you feel unwell, seek medical advice immediately

## 16. OTHER INFORMATION