



# MATERIAL SAFETY DATA SHEET

**Product:****037157      Combined Five Anion Standard, 100 mL**

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Information Phone: (408) 737-0700

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(Max Ebenhahn)

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. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS	Water	Sodium Fluoride	Sodium Chloride	Sodium Nitrate	Potassium Phosphate (monobasic)	Disodium Sulfate
PERCENT (%)	99.90%	0.00%	0.01%	0.01%	0.02%	0.02%
CAS NO.	7732-18-5	7681-49-4	7647-14-5	7631-99-4	7778-77-0	7757-82-6
EINECS NO.	231-791-2	231-667-8	231-598-3	231-554-3	231-913-4	231-820-9
RISKS		R25, R32, R36/38		R22, R36	R22, R36	R22, R36
SAFETY		S22, S26, S36/37/39, S45	S20, S26, S36/37/39, S45	S20, S26, S36/37/39, S45	S20, S26, S36/37/39, S45	S20, S26, S36/37/39, S45

## 3. HAZARDOUS IDENTIFICATION

HAZARD CLASS	None	NFPA	HMIS
Eyes:	None	HEALTH 0	0
Skin:	None	FLAMMABILITY 0	0
Ingestion:	None	REACTIVITY 0	0
Inhalation:	None	NFPA SPECIAL -	-
		HMIS PPE	



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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.  
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.



# MATERIAL SAFETY DATA SHEET

## 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:** Labcoats

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** Clear

**ODOR:** None

**pH:**

**MOLECULAR WEIGHT:** N/A (mixture)

**MELTING POINT:** approximately 0 degree C

**BOILING POINT:** approximately 100 degrees C

**AUTOIGNITION TEMPERATURE:**

**FLASH POINT:** Nonflammable - 99.9 % Water

**LOWER EXPLOSION LIMIT:** Undetermined

**UPPER EXPLOSION LIMIT:** Undetermined

**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:** None

**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	Sodium Fluoride	Sodium Chloride	Sodium Nitrate	Potassium Phosphate (monobasic)	Disodium Sulfate
<b>RTECS #</b>	ZC0110000	WB0350000	VZ4725000	WC5600000	1002090PP	WE1650000
<b>OSHA PEL</b>	Not Found	2.5 PPM F	Not Found	Not Found	Not Found	Not Found
<b>ACGIH TLV</b>	Not Found	2.5 MG F/M3; 9192	Not Found	Not Found	Not Found	Not Found
<b>TOXICITY DATA</b>	None	ORL-HMN LDLO: 75 MG/KG	ORL-HMN TDLO: 12357 MG/KG/23D-C TFX:BPR	ORL-RAT LDLO: 200 MG/KG	No Data Found	ORL-MUS LD50: 5989 MG/KG
	None	SKN-MUS LDLO: 300 MG/KG	IPR-MUS LD50: 3602 MG/KG	CYT-HAM:FBR 7500 MG/L/48H	No Data Found	IVN-MUS LDLO: 1220 MG/KG
<b>TSCA</b>	Yes	Not Found	1980	1980	1980	1980



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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:** Not Regulated

UN ID NUMBER: —  
PROPER SHIPPING NAME: —  
CLASS OR DIVISION: —  
SUB RISK: —  
HAZARD LABEL(S): —  
PACKAGING GROUP: —  
LIMITED QUANTITY PKG INSTRUCTION: —  
MAXIMUM LIMITED QUANTITY: —  
SPECIAL PROVISIONS: —  
ERG CODE: —  
TRAINING: —  
VARIATIONS: —

## 15. REGULATORY INFORMATION

PRODUCT RISK STATEMENTS: None listed  
PRODUCT SAFETY STATEMENTS: None listed

## 16. OTHER INFORMATION