

Section 1. Product and Company Identification

Item Number: s1858-1
 Common Name: Paraformaldehyde 4% In 0.1M Cacodylate Buffer
 Intended Use: In Vitro Diagnostic use. Laboratory Use Only
 IN CASE OF EMERGENCY, CONTACT: CHEMTREC (24HR) 800-424-9300

Manufacturer: Poly Scientific R&D Corp

70 Cleveland Ave
 Bay Shore, NY 11706
 631-586-0400
 polyrnd@polyrnd.com
 www.polyrnd.com

Section 2. Hazard Identification

301 Acute toxicity, oral Cat 3
 315 Skin corrosion/irritation Cat 2
 317 Sensitizer, Skin Cat 1
 318 Serious eye damage/eye irritation Cat 1
 331 Acute toxicity, inhalation Cat 3
 335 Specific target organ toxicity, single exposure; Respiratory tract irritation Cat 3



Danger

Toxic if swallowed. Causes skin irritation. May cause allergic skin reaction. Causes serious eye damage. Toxic if inhaled. May cause respiratory irritation. Avoid breathing dust/fume/gas/mist/vapours/spray. Use only in well-ventilated area. In case of inadequate ventilation wear respiratory protection. Wash hands/skin thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. Keep container tightly closed, in a well ventilated-area and cool. Use explosion-proof electrical/ventilating/lighting/equipment. Take precautionary measures against static discharge. Take off contaminated clothing and wash before reuse. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Wash skin with soap/water/shower. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Dispose of contents/container to an approved waste disposal plant.

Hazards not otherwise covered by GHS: None

Section 3. Composition Information

Exposure Limits(A blank value indicates no information available)

| Component | CAS# | PEL(mg/m ³) | STEL(mg/m ³) | CEIL(mg/m ³) | Concentration Range |
|------------------|------------|-------------------------|--------------------------|--------------------------|---------------------|
| Paraformaldehyde | 30525-89-4 | | | | 0-5% |
| Cacodylic Acid | 124-65-2 | | | | 0-5% |

Section 4. First Aid Measures

Eye Contact: Check for and remove contact lenses. Wash with large amounts of water for 15 minutes. Seek medical attention.
 Skin Contact: Remove contaminated clothing and shoes. Wash the affected area with large with soap and water. Seek medical attention
 Ingestion: Give two glasses of water to a conscious victim. Do not induce vomiting. Seek medical attention
 Inhalation: Move person to fresh air. If necessary give CPR; warning this could pose a risk of exposure to the rescue breather. Seek medical attention
 The most important known symptoms and effects are described in section 2 and/or section 11.

Section 5. Fire Fighting Measures

Extinguishing Media: Dry Chemical, Water Spray, Fog, Carbon Dioxide, Alcoholic Foam
 Special Fire and Explosion Remarks: N/A

Section 6. Accidental Release Measures

Spill Cleanup and Disposal Special: Eliminate ignition sources. Disperse vapors with water spray. Pick up with absorbent material.
 Spill Cleanup: Take up spills with absorbant material and containerize for proper disposal. Use proper PPE as per section 8. Provide ventilation.

Section 7. Handling and Storage

Storage and Handling Special: Refrigerate
 Storage and handling: Keep container tightly closed. Store in a cool, dry area and protect from physical damage

Section 8. Exposure Controls/Personal Protection

Personal Protective Equipment: Safety Glasses, Gloves, Vapor Respirator
 This information is provided as a guide but proper PPE can only be determined by the end user and their situation.
 Engineering Controls: Provide local exhaust ventilation to keep the airborne concentrations of vapors below their respective threshold limit values. Ensure that eyewash stations and safety showers are local to the work-station.

Section 9. Physical and Chemical Properties

| | | |
|-----------------------------------|------------------------------------|--------------------------------------------------|
| Appearance.....: clear, colorless | Evaporation Rate.....: N/A | Water Soluable?.....: Yes |
| Odor.....: Pungent, suffocating | Upper Flammability Limit (%): N/A | Volatile Percent.....: N/A |
| Odor Threshold.....: N/A | Lower Flammability Limit (%): N/A | Partition Coefficient.....: n-octanol/water: N/A |
| pH.....: N/A | Specific Gravity (@ 20C).....: N/A | Auto Ignition Temp.....: N/A |
| Melting Point.....: N/A | Vapor Pressure (mm Hg).....: N/A | Decomposition Temp.....: N/A |
| Boiling Point.....: N/A | Vapor Density (Air=1).....: N/A | Viscosity.....: N/A |
| Flash Point (F) TCC.....: N/A | Relative Density.....: N/A | |

Section 10. Stability and reactivity

Special Remarks on Stability: Stable

Special Remarks on Reactivity: N/A

Water Reactive: No

Section 11. Toxicological Information

Routes of Entry: Inhalation, Skin Absorption, Ingestion

Animal Toxicity: Paraformaldehyde: Acute Oral (LD50) 800 mg/kg (Rat) Acute Dermal (LD50) 0.27 mg/kg (Rabbit); Cacodylic Acid: Acute Oral (LD50) 2600 mg/kg (Rat); Acute Oral (LD50) 4 mg/kg (Mouse)

Human Toxic Effects: Target Organs: Eyes, Kidney, Liver, Heart, Blood, Kidneys, Lungs, Liver

Potential Acute Health Effects: Hazardous in case of inhalation, eye contact, skin contact, ingestion

Potential Chronic Health Effects: N/A

Section 12. Ecological Information

Ecological Information: N/A

Section 13. Disposal Considerations

Waste Disposal: Dispose of in accordance with local, state and federal laws.

Section 14. Transport Information

DOT Identification: Non Hazardous

Section 15. Regulatory Information

State Regulations New York release reporting list: Paraformaldehyde, Cacodylic Acid

Sara Section 311 Reporting

| Component | CAS# | Acute | Chronic | Fire | Pressure | Reactive | SARA302 | SARA313 | CERCLA | RCRA |
|------------------|------------|-------|---------|------|----------|----------|---------|---------|--------|------|
| Paraformaldehyde | 30525-89-4 | No | No | No | No | No | No | No | Yes | No |
| Cacodylic Acid | 124-65-2 | No | No | No | No | No | Yes | Yes | Yes | No |

Section 16. Other Information

Review Date: 12/17/2015

Reviewed by: ddi

MSDS Group Id: 144

Notice: This MSDS applies only to the material as packaged. If the material is altered by any means it may pose risks not mentioned here.

It is the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use.

While this MSDS is based on reliable technical data, Poly Scientific R&D Corp. assumes no responsibility for the completeness or accuracy of the information contained herein.