SECTION 1: Identification

1.1. Product Identifier

Trade Name or Designation: Bouin's Fixative Solution, Picric Acid-Formalin-Acetic Acid Mixture

Product Number: 1120

Other Identifying Product Numbers: 1120-1, 1120-16, 1120-32, 1120-5, 1120-55, 1120-90

1.2. Recommended Use and Restrictions on Use

General Laboratory Reagent

1.3. Details of the Supplier of the Safety Data Sheet

Company: Ricca Chemical Company

Address: 448 West Fork Drive

Arlington, TX 76012 USA

Telephone: 888-467-4222

1.4. Emergency Telephone Number (24 hr)

CHEMTREC (USA) 800-424-9300 CHEMTREC (International) 1+ 703-527-3887

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Safety Data Sheet

SECTION 2: Hazard(s) Identification

2.1. Classification of the Substance or Mixture (in accordance with OSHA HCS 29 CFR 1910.1200)

For the full text of the Hazard and Precautionary Statements listed below, see Section 16.

| Hazard Class | Category | Hazard Statement | Precautionary Statements |
|--|-------------|---------------------|---|
| Acute Toxicity - Oral | Category 3 | H301 | P264, P270, P301+P310, P321, P330, P405, P501 |
| Acute Toxicity - Dermal | Category 2 | H310 | P262, P264, P270, P280, P352, P310, P321, P361, P405, P501 |
| Acute Toxicity - Inhalation | Category 2 | H330 | P260, P271, P285, P304+P340, P310, P320, P403+P233, P405, P501 |
| Skin Corrosion / Irritation | Category 1A | H314 | P260, P264, P280, P301+P330+P331, P303+P361+P353, P363, P304+P340, P310, P321, P305+P351+P338, P405, P501 |
| Eye Damage / Irritation | Category 1 | H318 | P280, P305+P351+P338, P310 |
| Respiratory Sensitizer | Category 1 | H334 | P261, P285, P304+P341, P342+P311, P501 |
| Skin Sensitizer | Category 1 | H317 | P261, P272, P280, P302+P352, P332+P313, P321, P363, P501 |
| Germ Cell Mutagenicity | Category 1 | H340 | P201, P202, P280, P308+P313, P405, P501 |
| Carcinogenicity | Category 1 | H350 | P201, P202, P280, P308+P313, P405, P501 |
| Reproductive Toxicity | Category 1 | H360 | P201, P202, P280, P308+P313, P405, P501 |
| Specific Target Organs/Systemic Toxicity Following Single Exposure | Category 1 | H370 | P260, P264, P270, P307+P311, P321, P405, P501 |
| Specific Target Organs/Systemic Toxicity Following Repeated Exposure | Category 1 | H372 | P260, P264, P270, P314, P501 |
| Corrosive to Metals | Category 1 | H290 | P234, P390, P406 |
| Hazardous to the Aquatic Environment (Acute) | Category 2 | H401 | P273, P501 |

2.2. GHS Label Elements

Pictograms:







Signal Word: Danger

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Hazard Statements:

| Hazard Number | Hazard Statement |
|---------------|--|
| H290 | May be corrosive to metals. |
| H301 | Toxic if swallowed. |
| H310 | Fatal in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H330 | Fatal if inhaled. |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H340 | May cause genetic defects. |
| H350 | May cause cancer. |
| H360 | May damage fertility or the unborn child. |
| H370 | Causes damage to organs. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H401 | Toxic to aquatic life. |

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Precautionary Statements:

| Precautionary Statements: | |
|---------------------------|---|
| Precautionary Number | Precautionary Statement |
| P201 | Obtain special instructions before use. |
| P202 | Do not handle until all safety precautions have been read and understood. |
| P234 | Keep only in original container. |
| P260 | Do not breathe dust, fumes or mist. |
| P261 | Avoid breathing dust, fumes or mist. |
| P262 | Do not get in eyes, on skin, or on clothing. |
| P264 | Wash arms, hands and face thoroughly after handling. |
| P270 | Do not eat, drink or smoke when using this product. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P272 | Contaminated work clothing must not be allowed out of the workplace. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves and eye protection. |
| P285 | In case of inadequate ventilation wear respiratory protection. |
| P301+P310 | IF SWALLOWED: Immediately call a POISON CENTER or physician. |
| P301+P330+P331 | IF SWALLOWED: rinse mouth. Do NOT induce vomiting. |
| P302+P352 | IF ON SKIN: Wash with plenty of soap and water. |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P304+P341 | IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to describe the contact lenses are cautiously with water for several minutes. |
| | Continue rinsing. |
| P307+P311 | IF exposed: Call a POISON CENTER or physician. |
| P308+P313 | IF exposed or concerned: Get medical attention. |
| P310 | Immediately call a POISON CENTER or physician. |
| P314 | Get medical attention if you feel unwell. |
| P320 | Specific treatment is urgent (Wash areas of contact with water). |
| P321 | Specific treatment (Wash areas of contact with water). |
| P330 | Rinse mouth. |
| P332+P313 | If skin irritation occurs: Get medical attention. |
| P342+P311 | If experiencing respiratory symptoms: Call a POISON CENTER or physician. |
| P352 | Wash with plenty of soap and water. |
| P361 | Take off immediately all contaminated clothing and wash it before reuse. |
| P363 | Wash contaminated clothing before reuse. |
| P390 | Absorb spillage to prevent material damage. |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |
| P405 | Store locked up. |
| P406 | Store in corrosive resistant container with a resistant inner liner. |

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P501 Dispose of contents in accordance with local, state, federal and international regulations.

2.3. WHMIS Classification

WHMIS classification is not included based on the recommended option (Option 4) found in the Canada Gazette Part II, Vol. 149, No.3, page 458

2.4. Hazards not Otherwise Classified or Covered by GHS

Data not available.

SECTION 3: Composition / Information on Ingredients

3.1. Components of Substance or Mixture

| Chemical Name | Formula | Molecular Weight | CAS Number | Weight% |
|----------------|--------------------|------------------|------------|---------|
| Water | H ₂ O | 18.01 g/mol | 7732-18-5 | 81.61% |
| Formaldehyde | HCHO | 30.02 g/mol | 50-00-0 | 9.19% |
| Acetic Acid | CH₃COOH | 60.05 g/mol | 64-19-7 | 4.86% |
| Methyl Alcohol | CH₃OH | 32.04 g/mol | 67-56-1 | 3.72% |
| Picric Acid | $(O_2N)_3C_6H_2OH$ | 229.10 g/mol | 88-89-1 | 0.62% |

SECTION 4: First-Aid Measures

4.1. General First Aid Information

Eye Contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

May cause irritation with burning and stinging with possible damage to the cornea and conjunctiva.

Inhalation: IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.

Skin Contact: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. May cause irritation, redness and

pain. Frequent or prolonged exposure may cause hypersensitivity leading to contact dermatitis. Will stain areas of contact. Stains

may be removed using Reagent Alcohol or dilute Ammonium Hydroxide Solution.

Ingestion: IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Dilute immediately with water or milk. Induce vomiting. Call a physicia

4.2. Most Important Symptoms and Effects, Acute and Delayed

WARNING! Contains Formaldehyde, which is a potential carcinogen. Hazardous fumes and liquid. Use with adequate ventilation. Handle with extreme care. Avoid ingestion, inhalation, or contact with skin. If ingested, induce vomiting and call a physician. Wash areas of contact with plenty of water for 15 minutes. For eyes, get medical attention. EYE CONTACT: May cause irritation with burning and stinging with possible damage to the cornea and conjunctiva. SKIN CONTACT: May cause irritation, redness and pain. Frequent or prolonged exposure may cause hypersensitivity leading to contact dermatitis. Will stain areas of contact. Stains may be removed using Reagent Alcohol or dilute Ammonium Hydroxide Solution.

4.3. Medical Attention or Special Treatment Needed

Immediately call a POISON CENTER or physician. Specific treatment is urgent (Wash areas of contact with water). Specific treatment (Wash areas of contact with water).

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SECTION 5: Fire-Fighting Measures

5.1. Extinguishing Media

Use any means suitable for extinguishing surrounding fire.

5.2. Specific Hazards Arising from the Substance or Mixture

Not considered to be a fire or explosion hazard.

5.3. Special Protective Equipment for Firefighters

Wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

SECTION 6: Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Wear protective gloves and eye protection. In case of inadequate ventilation wear respiratory protection.

6.2. Cleanup and Containment Methods and Materials

Ventilate area of leak or spill. Absorb with suitable material and save for proper disposal. See Section 13.

SECTION 7: Handling and Storage

7.1. Precautions for Safe Handling and Storage Conditions

Store in corrosive resistant container with a resistant inner liner. As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage. Store at controlled room temperature, 15 - 30oC.

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SECTION 8: Exposure Controls / Personal Protection

8.1. Control Parameters

| Chemical Name | Limit Type | Country | Exposure Limit | Information Source |
|--------------------------|-------------|---------|-------------------------------------|---|
| Acetic Acid (64-19-7) | TWA | USA | 10 ppm TWA | U.S OSHA - Final PELs - Time Weighted |
| | | | 25 mg/m³ TWA | Averages (TWAs) |
| Acetic Acid (64-19-7) | TLV-STEL | USA | 15 ppm STEL | ACGIH - Threshold Limit Values - Short |
| | | | | Term Exposure Limits (TLV-STEL) |
| Acetic Acid (64-19-7) | TLV-TWA | USA | 10 ppm TWA | ACGIH - Threshold Limit Values - Time |
| | | | | Weighted Averages (TLV-TWA) |
| Formaldehyde (50-00-0) | TWA | USA | 0.75 ppm TWA | U.S OSHA - Final PELs - Time Weighted |
| | | | | Averages (TWAs) |
| Formaldehyde (50-00-0) | TLV-Ceiling | USA | 0.3 ppm Ceiling | ACGIH - Threshold Limit Values - Ceilings |
| | | | | (TLV-C) |
| Formaldehyde (50-00-0) | PEL-STEL | USA | 2 ppm STEL (see 29 CFR 1910.1048) | U.S OSHA - Final PELs - Short Term |
| | | | | Exposure Limits |
| Formaldehyde (50-00-0) | PEL | USA | 0.5 ppm Action Level (Irritant and | U.S OSHA - Specifically Regulated |
| | | | potential cancer hazard, See 29 CFR | Chemicals with PELs |
| | | | 1910.1048) | |
| | | | 0.75 ppm TWA | |
| | | | 2 ppm STEL (15 min) | |
| Methyl Alcohol (67-56-1) | TWA | USA | 200 ppm TWA | U.S OSHA - Final PELs - Time Weighted |
| | | | 260 mg/m³ TWA | Averages (TWAs) |
| Methyl Alcohol (67-56-1) | TLV-STEL | USA | 250 ppm STEL | ACGIH - Threshold Limit Values - Short |
| | | | | Term Exposure Limits (TLV-STEL) |
| Methyl Alcohol (67-56-1) | TLV-TWA | USA | 200 ppm TWA | ACGIH - Threshold Limit Values - Time |
| | | | | Weighted Averages (TLV-TWA) |
| Picric Acid (88-89-1) | TWA | USA | 0.1 mg/m³ TWA | U.S OSHA - Final PELs - Time Weighted |
| | | | | Averages (TWAs) |
| Picric Acid (88-89-1) | TLV-TWA | USA | 0.1 mg/m³ TWA | ACGIH - Threshold Limit Values - Time |
| | | | | Weighted Averages (TLV-TWA) |

8.2. Exposure Controls

Engineering Controls: Use only outdoors or in a well-ventilated area. A system of local and/or general exhaust is recommended to keep

employee exposures below the Airborne Exposure Limit.

Respiratory Protection: In case of inadequate ventilation wear respiratory protection. If the exposure limit is exceeded, a full facepiece

respirator equipped with organic vapor cartridge should be worn.

Skin Protection: Wear protective gloves and eye protection. Chemical resistant gloves.

Eye Protection: Wear protective gloves and eye protection. Safety glasses or goggles.

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8.3. Personal Protective Equipment

Wear protective gloves and eye protection. In case of inadequate ventilation wear respiratory protection. If the exposure limit is exceeded, a full facepiece respirator equipped with organic vapor cartridge should be worn. Chemical resistant gloves. Safety glasses or goggles.

SECTION 9: Physical and Chemical Properties

9.1. Basic Physical and Chemical Properties

Appearance: Yellow liquid

Physical State: Liquid

Odor: Data not available.

Odor Threshold: Data not available.

pH: Data not available.

Melting/Freezing Point: Data not available.

Initial Boiling Point /Range: Approximately 100°C - Approximately 100°C

Flash Point: Data not available.

Evaporation Rate: Data not available.

Flammability: Data not available.

Flammability/Explosive Limits: Data not available.

Vapor Pressure: Data not available.

Vapor Density: Data not available.

Relative Density: 1.04

Solubility: Miscible

Partition Coefficient (n-Octanol/Water): Data not available.

Auto-Ignition Temperature: Data not available.

Decomposition Temperature: Data not available.

Viscosity: Data not available.

ExplosiveProperties: Data not available.

Oxidizing Properties: Data not available.

SECTION 10: Stability and Reactivity

10.1. Reactivity and Chemical Stability

Stable under normal conditions of use and storage.

10.2. Possibility of Hazardous Reactions

Data not available.

10.3. Conditions to Avoid and Incompatible Materials

Keep only in original container. Strong oxidizing agents, alkalis, acids, phenols, urea.

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10.4. Hazardous Decomposition Products

Will not occur.

SECTION 11: Toxicological Information

11.1. Information on Toxicological Effects

Acute Toxicity - Oral Exposure:

Toxic if swallowed. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. IF SWALLOWED: Immediately call a POISON CENTER or physician. Specific treatment (Wash areas of contact with water). Rinse mouth. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

Acute Toxicity - Dermal Exposure:

Fatal in contact with skin. Do not get in eyes, on skin, or on clothing. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves and eye protection. Wash with plenty of soap and water. Immediately call a POISON CENTER or physician. Specific treatment (Wash areas of contact with water). Take off immediately all contaminated clothing and wash it before reuse. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

Acute Toxicity - Inhalation Exposure:

Fatal if inhaled. Do not breathe dust, fumes or mist. Use only outdoors or in a well-ventilated area. In case of inadequate ventilation wear respiratory protection. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. Specific treatment is urgent (Wash areas of contact with water). Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

Acute Toxicity - Other Information:

LD50, Oral, Rat: (Formaldehyde) 100 mg/kg, (Acetic Acid): 3310 mg/kg, details of toxic effects not reported other than lethal dose value; (Picric Acid) 200 mg/kg, behavioral and sense organ (eye) effects noted. LC50, Inhalation, Rat: (Formaldehyde) 203 mg/m3, peripheral nerve and behavioral effects noted. Formaldehyde is investigated as a tumorigen.

Skin Corrosion and Irritation:

Causes severe skin burns and eye damage. Do not breathe dust, fumes or mist. Wash arms, hands and face thoroughly after handling. Wear protective gloves and eye protection. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. Specific treatment (Wash areas of contact with water). IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

Serious Eye Damage and Irritation:

Causes serious eye damage. Wear protective gloves and eye protection. 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 physician.

Respiratory Sensitization:

May cause allergy or asthma symptoms or breathing difficulties if inhaled. Avoid breathing dust, fumes or mist. In case of inadequate ventilation wear respiratory protection. IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or physician. Dispose of contents in accordance with local, state, federal and international regulations.

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Skin Sensitization:

May cause an allergic skin reaction. Avoid breathing dust, fumes or mist. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves and eye protection. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical attention. Specific treatment (Wash areas of contact with water). Wash contaminated clothing before reuse. Dispose of contents in accordance with local, state, federal and international regulations.

Germ Cell Mutagenicity:

May cause genetic defects. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves and eye protection. IF exposed or concerned: Get medical attention. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

Carcinogenicity:

May cause cancer. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves and eye protection. IF exposed or concerned: Get medical attention. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

Reproductive Toxicity:

May damage fertility or the unborn child. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves and eye protection. IF exposed or concerned: Get medical attention. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

Specific Target Organ Toxicity from Single Exposure:

Causes damage to organs. Do not breathe dust, fumes or mist. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. IF exposed: Call a POISON CENTER or physician. Specific treatment (Wash areas of contact with water). Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

Specific Target Organ Toxicity from Repeated Exposure:

Causes damage to organs through prolonged or repeated exposure. Do not breathe dust, fumes or mist. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. Get medical attention if you feel unwell. Dispose of contents in accordance with local, state, federal and international regulations.

Aspiration Hazard:

Not applicable.

Additional Toxicology Information:

Data not available.

SECTION 12: Ecological Information

12.1. Ecotoxicity

Toxic to aquatic life. Avoid release to the environment. Dispose of contents in accordance with local, state, federal and international regulations.

12.2. Persistence and Degradability

Data not available.

12.3. Bioaccumulative Potential

Data not available.

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12.4. Mobility in Soil

Data not available.

12.5. Other Adverse Ecological Effects

Data not available.

SECTION 13: Disposal Considerations

13.1. Waste Treatment Methods

Data not available.

SECTION 14: Transportation Information

14.1. Transportation by Land - Department of Transportation (DOT, United States of America)

Sizes: 1 L, 4 L, 20 L, 55 Gal, 90 mL, 500 mL

UN Number: UN3265

Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (Acetic Acid, Formaldehyde)

Hazard Class: 8

Packing Group:

Hazard Placard Labels:



Sizes:

UN Number:

Proper Shipping Name:

Hazard Class:

Packing Group:

Hazard Placard Labels:

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14.2. Transportation by Air - International Air Transport Association (IATA)

Sizes: 1 L, 4 L, 20 L, 55 Gal, 90 mL, 500 mL

UN Number: UN3265

Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (Acetic Acid, Formaldehyde)

Hazard Class: 8

Packing Group: |||

Hazard Placard Labels:



SECTION 15: Regulatory Information

15.1. Occupational Safety and Health Administration (OSHA) Hazards

Formaldehyde (CAS # 50-00-0): 2 ppm STEL (See 29 CFR 1910.1048, 15 min); 0.5 ppm Action Level (See 29 CFR 1910.1048); 0.75 ppm TWA (See 29 CFR 1910.1048)

15.2. Superfund Amendments and Reauthorization Act (SARA) 302 Extremely Hazardous Substances

Formaldehyde (CAS # 50-00-0): 100 lb EPCRA RQ Formaldehyde (CAS # 50-00-0): 500 lb TPQ

15.3. Superfund Amendments and Reauthorization Act (SARA) 311/312 Hazardous Chemicals

Formaldehyde (CAS # 50-00-0): 100 lb final RQ; 45.4 kg final RQ Acetic Acid (CAS # 64-19-7): 5000 lb final RQ; 2270 kg final RQ Methyl Alcohol (CAS # 67-56-1): 5000 lb final RQ; 2270 kg final RQ

15.4. Superfund Amendments and Reauthorization Act (SARA) 313 Toxic Release Inventory (TRI)

Formaldehyde (CAS # 50-00-0): 0.1 % de minimis concentration Methyl Alcohol (CAS # 67-56-1): 1.0 % de minimis concentration Picric Acid (CAS # 88-89-1): 1.0 % de minimis concentration

15.5. Massachusetts Right-to-Know Substance List

Formaldehyde (CAS # 50-00-0): Carcinogen; Extraordinarily hazardous Acetic Acid (CAS # 64-19-7): Present Methyl Alcohol (CAS # 67-56-1): Present Picric Acid (CAS # 88-89-1): Present

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15.6. Pennsylvania Right-to-Know Hazardous Substances

Formaldehyde (CAS # 50-00-0): Environmental hazard; Special hazardous substance

Formaldehyde (CAS # 50-00-0): Present

Acetic Acid (CAS # 64-19-7): Environmental hazard

Acetic Acid (CAS # 64-19-7): Present

Methyl Alcohol (CAS # 67-56-1): Environmental hazard

Methyl Alcohol (CAS # 67-56-1): Present

Water (CAS # 7732-18-5): Present

Picric Acid (CAS # 88-89-1): Environmental hazard

Picric Acid (CAS # 88-89-1): Present

15.7. New Jersey Worker and Community Right-to-Know Components

Formaldehyde (CAS # 50-00-0): carcinogen; corrosive; flammable - fourth degree; mutagen

Formaldehyde (CAS # 50-00-0): sn 0946

Formaldehyde (CAS # 50-00-0): SN 0946 500 lb TPQ

Acetic Acid (CAS # 64-19-7): corrosive Acetic Acid (CAS # 64-19-7): sn 0004

Methyl Alcohol (CAS # 67-56-1): flammable - third degree; teratogen

Methyl Alcohol (CAS # 67-56-1): sn 1222

Methyl Alcohol (CAS # 67-56-1): SN 1222 500 lb TPQ

Picric Acid (CAS # 88-89-1): flammable - fourth degree; reactive - fourth degree

Picric Acid (CAS # 88-89-1): sn 1946

Picric Acid (CAS # 88-89-1): SN 1946 500 lb TPQ (dry or wetted with less than 30 percent water, by mass)

15.8. California Proposition 65

Formaldehyde (CAS # 50-00-0): 40 µg/day NSRL (gas)

Formaldehyde (CAS # 50-00-0): carcinogen, 1/1/1988 (gas)

Methyl Alcohol (CAS # 67-56-1): developmental toxicity, 3/16/2012

15.9. Canada Domestic Substances List / Non-Domestic Substances List (DSL/NDSL)

Formaldehyde (CAS # 50-00-0): Present (DSL)

Acetic Acid (CAS # 64-19-7): Present (DSL)

Acetic Acid (CAS # 64-19-7): Present (NDSL)

Methyl Alcohol (CAS # 67-56-1): Present (DSL)

Methyl Alcohol (CAS # 67-56-1): Present (NDSL)

Water (CAS # 7732-18-5): Present (DSL)

Picric Acid (CAS # 88-89-1): Present (DSL)

15.10. United States of America Toxic Substances Control Act (TSCA) List

Formaldehyde (CAS # 50-00-0): Present

Acetic Acid (CAS # 64-19-7): Present

Methyl Alcohol (CAS # 67-56-1): Present

Water (CAS # 7732-18-5): Present

Picric Acid (CAS # 88-89-1): Present

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15.11. European Inventory of Existing Commercial Chemical Substances (EINECS),

European List of Notified Chemical Substances (ELINCS), and No Longer Polymers (NLP)

Not listed.

SECTION 16: Other Information

16.1. Full Text of Hazard Statements and Precautionary Statements

May be corrosive to metals. Toxic if swallowed. Fatal in contact with skin. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye damage. Fatal if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause genetic defects. May cause cancer. May damage fertility or the unborn child. Causes damage to organs. Causes damage to organs through prolonged or repeated exposure. Toxic to aquatic life.

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep only in original container. Do not breathe dust, fumes or mist. Do not get in eyes, on skin, or on clothing. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves and eye protection. In case of inadequate ventilation wear respiratory protection.

IF SWALLOWED: Immediately call a POISON CENTER or physician. IF ON SKIN: Wash with plenty of soap and water. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed: Call a POISON CENTER or physician. Get medical attention if you feel unwell. Specific treatment is urgent (Wash areas of contact with water). If skin irritation occurs: Get medical attention. If experiencing respiratory symptoms: Call a POISON CENTER or physician. Wash contaminated clothing before reuse. Absorb spillage to prevent material damage.

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Store in corrosive resistant container with a resistant inner liner.

Dispose of contents in accordance with local, state, federal and international regulations.

16.2. Miscellaneous Hazard Classes

Canadian Carcinogenicity Hazard Class: Not Applicable.

Physical Hazards Not Otherwise Classified (PHNOC): Not Applicable.

Health Hazards Not Otherwise Classified (HHNOC): Category 1

Not Applicable.

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16.3. National Fire Protection Association (NFPA) Rating

Health: 2

Flammability: 1

Reactivity: 0

Special Hazard:



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16.4. Document Revision

Last Revision Date: 5/1/2015

DISCLAIMER

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and RICCA CHEMICAL COMPANY assumes no legal responsibility or liability whatsoever resulting from its use.

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