

| SECTION 1 - Identity                   |  |                                   |   |  |           |  |
|--|--|-----------------------------------|---|--|-----------|--|
| Product Name:                          | <b>60/40 - F9A</b>   |                                   |   |  |           |  |
| Manufacturer:                          | The Contenti Company   |                                   |   |  |           |  |
| Generic Name:                          | SOFT SOLDER PASTE  |                                   |   |  |           |  |
| Address:                               | 515 Narragansett Park Drive<br>Pawtucket, RI 02861   |                                   |   |  |           |  |
| Chemical Family:                       | BRAZING COMPOUNDS  |                                   |   |  |           |  |
| Manufacturer Phone #:                  | 401-305-3000   |                                   |   |  |           |  |
| Formula                                | PROPRIETARY  |                                   |   |  |           |  |
| Spill, Leak, Fire, Exposure, Accident: | <b>Chemtrec 800-424-9300</b>   |                                   |   |  |           |  |
| SECTION 2 - Ingredient Information     |  |                                   |   |  |           |  |
| Chemical Name                          | Wt. %  | OSHA PEL                          | ACGIH   | Other  | CAS No.   |  |
| WHITE PROTOPET IS                      |  | NONE FOUND                        | NONE FOUND  | NONE FOUND   | 8009-09-8 |  |
| SEBACIC ACID                           |  | NONE FOUND                        | NONE FOUND  | NONE FOUND   | 111-20-6  |  |
| DIETHYLAMINE HYDROCHLORIDE             |  | NONE FOUND                        | NONE FOUND  | NONE FOUND   | 660-68-4  |  |
| SUCCINIC ACID                          |  | NONE FOUND                        | NONE FOUND  | NONE FOUND   | 7440-31-5 |  |
| TIN                                    |  | 2.00 mg/m <sup>3</sup>            | 2.00 mg/m <sup>3</sup>  | NONE FOUND   | 7440-31-5 |  |
| LEAD                                   |  | 0.10 mg/m <sup>3</sup>            | 0.10 mg/m <sup>3</sup>  | NONE FOUND   | 7440-22-4 |  |
| SECTION 3 - Physical Characteristics   |  |                                   | SECTION 4 - Fire & Explosive Hazard Data  |  |           |  |
| Boiling Point:                         | >450° F  | Flash Point: (method used)        |   |  |           | >250° F  |
| Vapor Pressure: (mm Hg)                | <0.5 mm  | Upper Explosion Limit:            |   |  |           | N/A  |
| Vapor Density: (air = 1)               | N/A  | Lower Explosion Limit:            |   |  |           | N/A  |
| Specific Gravity:                      | 2.6  | Extinguishing Media:              |   |  |           | CO2, DRY CHEMICAL, FOAM, WATER   |
| Melting Point:                         | 374° F   | Special Firefighting Procedures:  |   |  |           | FIRE FIGHTERS SHOULD WEAR SELF CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING. |
| Evaporation Rate:                      | 0.1 @ 25°C   | Unusual Fire & Explosion Hazards: |   |  |           | NONE   |
| Solubility in Water:                   | INSOLUBLE  |                                   |   |  |           |  |
| Appearance & Odor                      | GRAY PASTE - NO ODOR   |                                   |   |  |           |  |
| SECTION 5 - Reactivity Data            |  |                                   |   |  |           |  |
| Stability:                             | STABLE   | Hazardous Decomposition:          |   | CARBN DIOXIDE, CARBON MONOXIDE, GENERATED ON HEATING. CHLORIDE, NITROUS OXIDE FUMES. |           |  |
| Incompatibility (materials to avoid)   | OXIDIZING AGENTS, MOISTURE, EXCESSIVE HEAT DURING STORAGE  | Hazardous Polymerization:         |   | WILL NOT OCCUR   |           |  |
| SECTION 6 - Health Hazard Data         |  |                                   |   |  |           |  |
| CARCINOGENICITY                        | NPT:   | IARC MONOGRAPHS:                  | OSHA REGULATED:   |  |           |  |
| EFFECTS OF OVEREXPOSURE                |  |                                   | FIRST AID PROCEDURES  |  |           |  |
| <b>WHITE PROTOPET IS:</b>              | WHITE PROTOPET IS IS A MEDICINAL GRADE (USP) PETROLATUM AND IS NONTOXIC AND FULLY COMPLIES WITH THE FOOD AND DRUG ADMINISTRATION'S REQUIREMENT FOR PETROLATUM AS PER CFR 121.1166. ACUTE EXPOSURE HAS A LOW TOXICITY POTENTIAL. HOWEVER, LONG TERM EXPOSURE HAS BEEN FOUND TO PRODUCE IRRITATION OF THE RESPIRATORY TRACT AND ALTERATION OF KIDNEY AND LIVER FUNCTIONS. MAXIMUM RECOMMENDED CONCENTRATION OF SEBACIC ACID IN WORKING AREAS SHOULD BE LIMITED TO 4 mg/cu m (RECOMMENDED BY MANUFACTURER). THIS MATERIAL IS NOT ON THE IARC OR NTP LISTS OF CARCINOGENS OF POSSIBLE CARCINOGENS. |                                   | <b>Skin:</b> PROMPTLY WASH WITH SOAP AND WATER; THEN FLUSH WITH WATER UNTIL ALL CHEMICAL IS REMOVED. REMOVE CONTAMINATED CLOTHING PROMPTLY AND WASH BEFORE REUSE. IF SYMPTOMS PERSIST, GET MEDICAL ATTENTION. |  |           |  |
| <b>SEBACIC ACID:</b>                   |  |                                   |   |  |           |  |
| <b>DIETHYLAMIN</b>                     | MATERIAL MAY BE IRRITATING TO THE EYES,  |                                   | <b>Eyes:</b> FOR DUST OR SOLUTION IN EYES, FLUSH  |  |           |  |

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| <b>E</b><br><b>HYDROCHLOR</b><br><b>IDE:</b> | SKIN AND MUCOUS MEMBRANES.  |                    | IMMEDIATELY FOR 15-20 MINUTES WITH LARGE AMOUNTS OF WATER. SEEK MEDICAL EVALUATION OF POTENTIAL CORNEAL DAMAGE.  |
| <b>SUCCINIC</b><br><b>ACID:</b>              | DUST OR MIST, IF INHALED, MAY IRRITATE NOSE, THROAT AND LUNGS. ALTHOUGH SMALL AMOUNTS MAY BE USED AS A FOOD ADDITIVE, LARGE DOSES, (10 GRAMS) IF INGESTED, PRODUCE A LAXATIVE REACTION, POSSIBLE VOMITING, WEAKNESS AND MAY IRRITATE THE GASTROINTESTINAL TRACT. CONTACT WITH SKIN MAY PRODUCE SLIGHT SKIN IRRITATION. HOT, CONCENTRATED SOLUTIONS MAY CAUSE BURNS. SEVERE EYE IRRITANT.  | <b>Inhalation:</b> | IMMEDIATELY REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, GIVE OXYGEN IF A QUALIFIED OPERATOR IS AVAILABLE. GET MEDICAL EVALUATION. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION, PREFERABLY MOUTH-TO-MOUTH. CALL A PHYSICIAN AND GIVE SUPPORTIVE TREATMENT FOR CHILLS AND FEVER. |
| <b>TIN:</b><br><br><b>LEAD:</b>              | INHALATION OF TIN OXIDE MAY LEAD TO BENIGN PNEUMOCONOSIS. CERTAIN TIN SALTS ARE MILD IRRITANTS TO THE SKIN AND MUCOUS MEMBRANES.<br>PROLONGED OVEREXPOSURE TO LEAD DUSTS OR FUMES CAN RESULT IN SYSTEMIC LEAD POISONING WITH SYMPTOMS OF ANEMIA, INSOMNIA, WEAKNESS, CONSTIPATION, ABDOMINAL PAIN, GASTROINTESTINAL DISORDERS, JOINT AND MUSCLE PAINS, AND MUSCULAR WEAKNESS. SEVERE OVEREXPOSURE MAY LEAD TO CENTRAL NERVOUS SYSTEM DISORDERS, CHARACTERISED BY DROWSINESS, STUPOR AND ULTIMATELY DEATH. UNUSUAL CHRONIC TOXICITY - POTENTIAL INJURY TO DEVELOPING FETUS; DEPRESSION OF BLOOD-FORMING ACTIVITY, KIDNEY DISEASE AND NERVOUS SYSTEM CHANGES. | <b>Ingestion:</b>  | DO NOT INDUCE VOMITING. IF CONSCIOUS, GIVE SOLUBLE CALCIUM OR MAGNESIUM IN ANY FORM: MILK, CALCIUM GLUCONATE OR CALCIUM LACTATE SOLUTIONS, IF AVAILABLE; OR MILK OF MAGNESIA; OTHERWISE GIVE LARGE QUANTITIES OF WATER. CALL A PHYSICIAN. DO NOT GIVE CARBONATES OR BICARBONATES.    |

**SECTION 7 – Precautions for Safe Handling & Use**

|                                     |   |
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| <b>In Case of Release or Spill:</b> | DILUTE AND WASH SPILLAGE WITH WATER. WEAR RUBBER GLOVES DURING CLEAN UP. AVOID HIGH TEMPERATURES. PLACE IN CLOSED, LABELED CONTAINER FOR DISPOSAL OR RECYCLING.   |
| <b>Waste Disposal Method:</b>       | DISPOSAL OF WASTE PRODUCT MAY BE SUBJECT TO FEDERAL, STATE AND LOCAL REGULATIONS. USERS SHOULD REVIEW THEIR OWN OPERATIONS IN TERMS OF APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS, THEN CONSULT WITH APPROPRIATE REGULATORY AGENCIES BEFORE DISCHARGE OR DISPOSING OF THE WASTE MATERIAL. |
| <b>Handling &amp; Storage:</b>      | MAINTAIN AT NORMAL ROOM TEMPERATURE. KEEP COVERED AND STORE IN A DRY AREA.  |
| <b>Other Precautions:</b>           | REFER TO ANSI Z49.1 "SAFETY IN CUTTING AND WELDING."  |

**SECTION 8 – Control Measures**

|                                  |   |                           |   |
|----------------------------------|---|---------------------------|---|
| <b>Respiratory Protection:</b>   | IN CONFINED SPACE, USE A NIOSH APPROVED AIRLINE RESPIRATOR, HOSE MASK, OR SELF CONTAINED BREATHING APPARATUS.       | <b>Eye Protection:</b>    | SAFETY GOGGLES OR FULL FACE SHIELD  |
| <b>Ventilation Requirements:</b> | (FOR FUMES AND GASSES) AIR FLOW TO PRODUCE VELOCITY OF 100 LINEAL FT/MIN IN BRAZING ZONE. OR 2000 CU. FT/MIN/BRAZER | <b>Other Protections:</b> | NORMAL CLOTHING FOR TORCH BRAZING (AVOID FLAMMABLE FABRICS); EYE BATH AND SAFETY SHOWER. WASH HANDS BEFORE EATING, DRINKING AND SMOKING. THE DRINKING WATER SUPPLY IS PROHIBITED UNDER FEDERAL LAW IN THE WORKING AREA. DO NOT PERMIT EATING, DRINKING OR THE USE OF TOBACCO PRODUCTS WHILE HANDLING. |
| <b>Protective Gloves:</b>        | HEAT PROTECTIVE RUBBER  |                           |   |

**SECTION 9 – Additional Information**

This company cannot anticipate all conditions of handling and use of this product. Therefore, this company accepts no responsibility for results obtained by the application of this information, or the safety and suitability of our products either alone or in combination with other products. It is the responsibility of the user to provide a safe workplace, using the health and safety information contained herein as a guide. This company will

accept no liability for damages or loss incurred from the improper handling and use of this product.

**SECTION 1 - Identity**

|                  |                   |  |  |
|------------------|-------------------|--|--|
| Product Name:    | <b>4300/F9A</b>   | Manufacturer:                          | The Contenti Company                               |
| Generic Name:    | SOFT SOLDER PASTE | Address:                               | 515 Narragansett Park Drive<br>Pawtucket, RI 02861 |
| Chemical Family: | BRAZING COMPOUND  | Manufacturer Phone #:                  | 401-305-3000                                       |
| Formula          | PROPRIETARY       | Spill, Leak, Fire, Exposure, Accident: | <b>Chemtrec 800-424-9300</b>                       |

**SECTION 2 - Ingredient Information**

| Chemical Name     | Wt. % | OSHA PEL | ACGIH                  | Other | CAS No.    |
|-------------------|-------|----------|------------------------|-------|------------|
| ZINC CHLORIDE     |       |          | 5.00 mg/m <sup>3</sup> |       | 7646-85-7  |
| AMMONIUM CHLORIDE |       |          | 5.00 mg/m <sup>3</sup> |       | 12125-02-9 |
| ETHYLENE GLYCOL   |       |          | 50 ppm C               |       | 107-21-1   |
| TIN               |       |          | 5.00 mg/m <sup>3</sup> |       | 7440-31-5  |
| LEAD              |       |          | 5.00 mg/m <sup>3</sup> |       | 7440-22-4  |
| BISMUTH           |       |          | NONE FOUND             |       | 7440-69-9  |

**SECTION 3 – Physical Characteristics**

|                                 |                        |
|---------------------------------|------------------------|
| <b>Boiling Point:</b>           | 387° F (BINDER)        |
| <b>Vapor Pressure: (mm Hg)</b>  | 0.08 mm @ 20°C         |
| <b>Vapor Density: (air = 1)</b> | 2.1                    |
| <b>Specific Gravity:</b>        | N/A                    |
| <b>Melting Point:</b>           | 310°F                  |
| <b>Evaporation Rate:</b>        | 0.01                   |
| <b>Solubility in Water:</b>     | SOLUBLE                |
| <b>Appearance &amp; Odor</b>    | GRAY PASTE - MILD ODOR |

**SECTION 4 – Fire & Explosive Hazard Data**

|  |   |
|--|---|
| <b>Flash Point: (method used)</b>            | NOT KNOWN   |
| <b>Upper Explosion Limit:</b>                | N/A   |
| <b>Lower Explosion Limit:</b>                | N/A   |
| <b>Extinguishing Media:</b>                  | CO2, DRY CHEMICAL, FOAM, WATER  |
| <b>Special Firefighting Procedures:</b>      | FIRE FIGHTERS SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING |
| <b>Unusual Fire &amp; Explosion Hazards:</b> | NONE  |

**SECTION 5 – Reactivity Data**

|   |  |                                  |   |
|---|--|----------------------------------|---|
| <b>Stability:</b>                           | STABLE   | <b>Hazardous Decomposition:</b>  | FLUORIDE FUMES OR GAS, BORON TRI-FLUORIDE GAS ON HEATING, BORON OXIDE |
| <b>Incompatibility (materials to avoid)</b> | ACIDS AND ALKALIS<br>EXCESSIVE HEAT DURING STORAGE | <b>Hazardous Polymerization:</b> | WILL NOT OCCUR  |

**SECTION 6 – Health Hazard Data**

| CARCINOGENICITY                | NPT:  | IARC MONOGRAPHS:            | OSHA REGULATED:  |
|--------------------------------|---|-----------------------------|--|
| <b>EFFECTS OF OVEREXPOSURE</b> |   | <b>FIRST AID PROCEDURES</b> |  |
| <b>ZINC CHLORUDE:</b>          | CAUSES BURNS. FUMES, DUST OR MIST MAY CAUSE INJURY TO THE RESPIRATORY TRACT. SEVERE EXPOSURE MAY CAUSE LUNG DAMAGE. CORROSIVE TO THE EYES AND SKIN. TOXIC EFFECTS INCLUDE CORROSION OF MUCOSAL SURFACES, LIVER EFFECTS, AND KIDNEY EFFECTS. LOWER RESPIRATORY IRRITATION WITH PULMONARY EDEMA. EFFECTS OF OVEREXPOSURE MAY INCLUDE EYE IRRITATION WITH DISCOMFORT, TEARING OR BLURRING OF VISION; SKIN IRRITATION WITH DISCOMFORT OR RASH; OR IRRITATION OF THE UPPER RESPIRATORY PASSAGES. HIGHER EXPOSURE MAY LEAD TO: SKIN BURNS OR ULCERATION; EYE IRRITATION WITH DISCOMFORT, TEARING OR BLURRING OF VISION; TEMPORARY LUNG IRRITATION WITH COUGH, DISCOMFORT, DIFFICULTY BREATHING, OR SHORTNESS OF BREATH; POSSIBLY MODEST INITIAL SYMPTOMS, |                             | <b>Skin:</b><br>PROMPTLY WASH WITH SOAP AND WATER; THEN FLUSH WITH WATER UNTIL ALL CHEMICAL IS REMOVED. REMOVE CONTAMINATEE CLOTHING PROMPTLY AND WASH BEFORE REUSE. IF SYMPTOMS PERSIST, GET MEDICAL ATTENTION. |

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|   | <p>FOLLOWED IN HOURS BY SEVERE SHORTNESS OF BREATH REQUIRING MEDICAL ATTENTION; OR FATALITY FROM GROSS OVEREXPOSURE BY FUME INHALATION OR SIGNIFICANT INGESTION.</p>   |
| <p><b>AMMONIUM CHLORIDE:</b></p>                                    | <p><b>Inhalation:</b> INHALATION MAY IRRITATE NOSE, THROAT AND LUNGS. ALTHOUGH LOW IN TOXICITY, INGESTION COULD BE HARMFUL-CONSULT A PHYSICIAN. MAY IRRITATE MOUTH, ESOPHAGUS, STOMACH, ETS. MAY CAUSE SKIN IRRITATION ESPECIALLY UNDER PROLONGED CONTACT. MAY IRRITATE OR BURN EYES.</p> <p><b>Eyes:</b> FOR DUST OR SOLUTION IN EYES, FLUSH IMMEDIATELY FOR 15-20 MINUTES WITH LARGE AMOUNTS OF WATER. SIIK MEDICAL EVALUATION OF POTENTIAL CORNEAL DAMAGE.</p>  |
| <p><b>ETHYLENE GLYCOL:</b></p>                                      | <p><b>Ingestion:</b> IMMEDIATELY REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, GIVE OXYGEN IF A QUALIFIED OPERATOR IS AVAILABLE. GET MEDICAL EVALUATION. IF NOT BREATHING, GIVE ARTIFICAIL RESPIRATION, PREFERABLY MOUTH TO MOUTH. CALL A PHYSICIAN. AND GIVE SUPPORTIVE TREATMENT FOR CHILLS AND FEVER.</p>   |
| <p><b>TIN OXIDE:</b></p> <p><b>LEAD:</b></p> <p><b>BISMUTH:</b></p> | <p><b>Inhalation:</b> INHALATION OF TIN OXIDE MAY LEAD TO BEGIN PNEUMNOCONOSIS. CERTAIN TIN SALTS ARE MILD IRRITANTS TO THE SKIN AND MUCOUS MEMBRANES. PROLONGED OVEREXPOSURE TO LEAD DUSTS OR FUMES CAN RESULT IN SYSTEMIC LEAD POISONING WITH SYMPTOMS OF ANEMIA, INSOMNIA, WEAKNESS, CONSTIPATION, ABDOMINAL PAIN, GASTROINTESTINAL DISORDERS, JOINT AND MUSCLE PAINS, AND MUSCULAR WEAKNESS. SEVERE OVEREXPOSURE MAY LEAD TO CENTRAL NERVOUS SYSTEM DISORDERS, CHARACTERISED BY DROWSINESS, STUPOR AND ULTIMATELY DEATH. UNUSUAL CHRONIC TOXICITY - POTENTIAL INJURY TO DEVELOPING FETUS; DEPRESSION OF BLOOD-FORMING ACTIVITY, KIDNEY DISEASE AND NERVOUS SYSTEM CHANGES. INHALATION OF BISMUTH MAY CAUSE IRRITATION OF THROAT, NOSE AND LUNGS. INGESTION MAY CAUSE NAUSEA AND DIZZINESS. SKIN IRRITATION IS NOT ANTICIPATED.</p> <p><b>Ingestion:</b> DO NOT INDUCE VOMITING. IF CONSCIOUS, GIVE SOLUBLE CALCIUM OR MAGNESIUM IN ANY FORM: MILK, CALCIUM GLUCONATE OR CALCIUM LACTATE SOLUTIONS, IF AVAILABLE: OR MILK OF MAGNESIA: OTHERWISE GIVE LARGE AMOUNTS OF WATER. CALL A PHYSICIAN. DO NOT GIVE CARBONATES OR BICARBONATES.</p> |

**SECTION 7 – Precautions for Safe Handling & Use**

**In Case of Release or** DILUTE AND WASH SPILLAGE WITH WATER. WEAR RUBBER GLOVES DURING CLEAN UP. AVOID HIGH TEMPERATURES. PLACE IN CLOSED, LABELED CONTAINER FOR DISPOSAL OR RECYCLING.

|                                |   |
|--------------------------------|---|
| <b>Spill:</b>                  |   |
| <b>Waste Disposal Method:</b>  | DISPOSAL OF WASTE PRODUCT MAY BE SUBJECT TO FEDERAL, STATE AND LOCAL REGULATIONS. USERS SHOULD REVIEW THEIR OWN OPERATIONS IN TERMS OF APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS. THEN CONSULT WITH APPROPRIATE REGULATORY AGENCIES BEFORE DISCHARGE OR DISPOSING OF THE WASTE MATERIAL. |
| <b>Handling &amp; Storage:</b> | MAINTAIN AT NORMAL ROOM TEMPERATURE. KEEP COVERED AND STORE IN A DRY AREA.  |
| <b>Other Precautions:</b>      | REFER TO ANSI Z49.1 "SAFETY IN CUTTING AND WELDING"   |

### SECTION 8 – Control Measures

|                                  |  |                           |  |
|----------------------------------|--|---------------------------|--|
| <b>Respiratory Protection:</b>   |  | <b>Eye Protection:</b>    | SAFETY GOGGLES OR FULL FACE SHEILD   |
| <b>Ventilation Requirements:</b> | (FOR FUMES AND GAS) AIR FLOW TO PRODUCE VELOCITY OF 100 LINEAL FT/MIN IN BRAZING ZONE. 2000 CU.FT/MIN/BRAZER | <b>Other Protections:</b> | NORMAL CLOTHING FOR TORCH BRAZING (AVOID FLAMMABLE FABRICS). EYE BATH AND SAFETY SHOWER. WASH HANDS BEFORE EATING, DRINKING AND SMOKING. THE DRINKING WATER SUPPLY IS PROHIBITED UNDER FEDERAL LAW IN THE WORKING AREA. DO NOT PERMIT EATING, DRINKING, OR THE USE OF TOBACCO PRODUCTS WHILE HANDLING. |
| <b>Protective Gloves:</b>        | HEAT PROTECTIVE RUBBER   |                           |  |

### SECTION 9 – Additional Information

This company cannot anticipate all conditions of handling and use of this product. Therefore, this company accepts no responsibility for results obtained by the application of this information, or the safety and suitability of our products either alone or in combination with other products. It is the responsibility of the user to provide a safe workplace, using the health and safety information contained herein as a guide. This company will accept no liability for damages or loss incurred from the improper handling and use of this product.

**SECTION 1 - Identity**

|                  |                   |  |  |
|------------------|-------------------|--|--|
| Product Name:    | <b>96/4 F9AM2</b> | Manufacturer:                          | The Contenti Company                               |
| Generic Name:    | SOFT SOLDER PASTE | Address:                               | 515 Narragansett Park Drive<br>Pawtucket, RI 02861 |
| Chemical Family: | BRAZING COMPOUND  | Manufacturer Phone #:                  | 401-305-3000                                       |
| Formula          | PROPRIETARY       | Spill, Leak, Fire, Exposure, Accident: | <b>Chemtrec</b> 800-424-9300                       |

**SECTION 2 - Ingredient Information**

| Chemical Name              | Wt. % | OSHA PEL               | ACGIH                  | Other      | CAS No.   |
|----------------------------|-------|------------------------|------------------------|------------|-----------|
| WHITE PROTOPET IS          |       | NONE FOUND             | NONE FOUND             | NONE FOUND | 8009-09-8 |
| SEBACIC ACID               |       | NONE FOUND             | NONE FOUND             | NONE FOUND | 111-20-6  |
| DIETHYLAMINE HYDROCHLORIDE |       | NONE FOUND             | NONE FOUND             | NONE FOUND | 660-68-4  |
| SUCCINIC ACID              |       | NONE FOUND             | NONE FOUND             | NONE FOUND | 7440-31-5 |
| SILVER                     |       | 0.10 mg/m <sup>3</sup> | 0.10 mg/m <sup>3</sup> | NONE FOUND | 7440-22-4 |
| TIN                        |       | 2.00 mg/m <sup>3</sup> | 2.00 mg/m <sup>3</sup> | NONE FOUND | 7440-31-5 |
| LEAD                       |       | 0.10 mg/m <sup>3</sup> | 0.10 mg/m <sup>3</sup> | NONE FOUND | 7440-22-4 |

**SECTION 3 – Physical Characteristics**

|                                 |                      |
|---------------------------------|----------------------|
| <b>Boiling Point:</b>           | >450° F              |
| <b>Vapor Pressure: (mm Hg)</b>  | <0.5 mm              |
| <b>Vapor Density: (air = 1)</b> | N/A                  |
| <b>Specific Gravity:</b>        | 2.6                  |
| <b>Melting Point:</b>           | 374° F               |
| <b>Evaporation Rate:</b>        | 0.1@25oC             |
| <b>Solubility in Water:</b>     | INSOLUBLE            |
| <b>Appearance &amp; Odor</b>    | GRAY PASTE - NO ODOR |

**SECTION 4 – Fire & Explosive Hazard Data**

|  |  |
|--|--|
| <b>Flash Point: (method used)</b>            | >250° F ASTM D-92  |
| <b>Upper Explosion Limit:</b>                | N/A  |
| <b>Lower Explosion Limit:</b>                | N/A  |
| <b>Extinguishing Media:</b>                  | CO2, DRY CHEMICAL, FOAM, WATER   |
| <b>Special Firefighting Procedures:</b>      | FIRE FIGHTERS SHOULD WEAR SLEF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING. |
| <b>Unusual Fire &amp; Explosion Hazards:</b> | NONE   |

**SECTION 5 – Reactivity Data**

|   |                  |                                  |  |
|---|------------------|----------------------------------|--|
| <b>Stability:</b>                           | STABLE           | <b>Hazardous Decomposition:</b>  | CARBON DIOXIDE, CARBON MONOXIDE GENERATED ON HEATING. CHLORIDE, NITROUS OXIDE FUMES. |
| <b>Incompatibility (materials to avoid)</b> | OXIDIZING AGENTS | <b>Hazardous Polymerization:</b> | WILL NOT OCCUR   |

**SECTION 6 – Health Hazard Data**

|                                |  |                             |  |
|--------------------------------|--|-----------------------------|--|
| <b>CARCINOGENICITY</b>         | NPT:   | <b>IARC MONOGRAPHS:</b>     | <b>OSHA REGULATED:</b>   |
| <b>EFFECTS OF OVEREXPOSURE</b> |  | <b>FIRST AID PROCEDURES</b> |  |
| <b>WHITE PROTOPET IS:</b>      | WHITE PROTOPET IS IS A MEDICINAL GRADE (USP) PETROLATUM AND IS NONTOXIC AND FULLY COMPLIES WITH THE FOOD AND DRUG ADMINISTRATION'S REQUIREMENTS FOR PETROLATUM AS PER CFR 121.1166.  | <b>Skin:</b>                | PROMPTLY WASH WITH SOAP AND WATER; THEN FLUSH WITH WATER UNTIL ALL CHEMICAL IS REMOVED. REMOVE CONTAMINATED CLOTHING PROMPTLY AND WASH BEFORE REUSE. IF SYMPTOMS PERSIST, GET MEDICAL ATTENTION. |
| <b>SEBACIC ACID:</b>           | ACUTE EXPOSURE HAS A LOW TOXICITY POTENTIAL. HOWEVER, LONG TERM EXPOSURE HAS BEEN FOUND TO PRODUCE IRRITATION OF THE RESPIRATORY TRACT AND ALTERATION OF KIDNEY AND LIVER FUNCTIONS. MAXIMUM RECOMMENDED CONCENTRATION OF SEBACIC ACID IN WORKING AREAS SHOULD BE LIMITED TO 4mg/cu.m (RECOMMENDED BY MANUFACTURER). THIS MATERIAL IS NOT ON THE IARC OR NTP LISTS OF CARCINOGENS OF POSSIBLE CARCINOGENS. |                             |  |

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| <p><b>DIATHYLAMINE HYDROCHLORIDE SUCCINIC ACID:</b></p> | <p>MATERIAL MAY BE IRRITATING TO THE EYES, SKIN AND MUCOUS MEMBRANES. DUST OR MIST, IF INHALED, MAY IRRITATE NOSE, THROAT AND LUNGS. ALTHOUGH SMALL AMOUNTS MAY BE USED AS A FOOD ADDITIVE, LARGE DOSES, (10 GRAMS), IF INGESTED, PRODUCE A LAXATIVE REACTION, POSSIBLE VOMITING, WEAKNESS AND MAY IRRITATE THE GASTROINTESTINAL TRACT. CONTACT WITH SKIN MAY PROCUDE SLIGHT SKIN IRRITATION. HOT, CONCENTRATED SOLUTIONS MAY CAUSE BURNS. SEVERE EYE IRRITANT.</p>  | <p><b>Eyes:</b> FOR DUST OR SOLUTION IN EYES, FLUSH IMMEDIATELY FOR 15-20 MINUTES WITH LARGE AMOUNTS OF WATER. SEEK MEDICAL EVALUATION OF POTENTIAL CORNEAL DAMAGE.</p>   |
| <p><b>SILVER:</b><br/><br/><b>TIN:</b></p>              | <p>OVEREXPOSURE TO SILVER DUSTS OR FUMES MAY CAUSE A PERMANENT GRAYISH PIGMENTATION OF THE SKIN AND CAN CAUSE IRRITATION OF THE SKIN AND MUCOUS MEMBRANES. PROLONGED OVEREXPOSURE CAN LEAD TO KIDNEY DAMAGE. INHALATION OF TIN OXIDE MAY LEAD TO BENIGN PNEUMOCONOSIS. CERTAIN TIN SALTS ARE MILD IRRITANTS TO THE SKIN AND MUCOUS MEMBRANES.</p>  | <p><b>Inhalation:</b> IMMEDIATELY REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, GIVE OXYGEN IF A QUALIFIED OPERATOR IS AVAILABLE. GET MEDICAL EVALUATION. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION, PREFERATBLY MOUTH-TO-MOUTH. CALL A PHYSICIAN AND GIVE SUPPORTIVE TREATMENT FOR CHILLS AND FEVER.</p> |
| <p><b>LEAD:</b></p>                                     | <p>PROLONGED OVEREXPOSURE TO LEAD DUSTS OR FUMES CAN RESULT IN SYSTEMIC LEAD POISONING WITH SYMPTOMS OF ANEMIA, INSOMNIA, WEAKNESS, CONSTIPATION, ABDOMINAL PAIN, GASTROINTESTINAL DISORDERS, JOINT AND MUSCLE PAINS, AND MUSCULAR WEAKNESS. SEVERE OVEREXPOSURE MAY LEAD TO CENTRAL NERVOUS SYSTEM DISORDERS, CHARACTERISED BY DROWSINESS, STUPOR AND ULTIMATELY DEATH. UNUSUAL CHRONIC TOXICITY - POTENTIAL INJURY TO DEVELOPING FETUS; DEPRESSION OF BLOOD-FORMING ACTIVITY, KIDNEY DISEASE AND NERVOUS SYSTEM CHANGES.</p> | <p><b>Ingestion:</b> DO NOT INDUCE VOMITING. IF CONSCIOUS, GIVE SOLUBLE CALCIUM OR MAGNESIUM IN ANY FORM; MILK, CALCIUM GLUCONATE OR CALCIUM LACTATE SOLUTIONS, IF AVAILABLE; OR MILK OF MAGNESIA; OTHERWISE GIVE LARGE QUANTITIES OF WATER. CALL A PHYSICIAN. DO NOT GIVE CARBONATES OR BICARBONATES.</p>      |

**SECTION 7 – Precautions for Safe Handling & Use**

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| <b>In Case of Release or Spill:</b> | DILUTE AND WASH SPILLAGE WITH WATER. WEAR RUBBER GLOVES DURING CLEAN UP. AVOID HIGH TEMPERATURES. PLACE IN CLOSED, LABELED CONTAINER FOR DISPOSAL OR RECYCLING.   |
| <b>Waste Disposal Method:</b>       | DISPOSAL OF WASTE PRODUCT MAY BE SUBJECT TO FEDERAL, STATE AND LOCAL REGULATIONS. USERS SHOULD REVIEW THEIR OWN OPERATIONS IN TERMS OF APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS, THEN CONSULT WITH APPROPRIATE REGULATORY AGENCIES BEFORE DISCHARGE OR DISPOSING OF THE WASTE MATERIAL. |
| <b>Handling &amp; Storage:</b>      | MAINTAIN AT NORMAL ROOM TEMPERATURE. KEEP COVERED AND STORE IN A DRY AREA.  |
| <b>Other Precautions:</b>           | REFER TO ANSI Z49.1 "SAFETY IN CUTTING AND WELDING."  |

**SECTION 8 – Control Measures**

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| <b>Respiratory Protection:</b>   | <p><b>Eye Protection:</b> SAFETY GOGGLES OR FULL FACE SHIELD.</p>  |
| <b>Ventilation Requirements:</b> | <p><b>Other Protections:</b> WASH HANDS BEFORE EATING, DRINKING AND SMOKING. THE DRINKING WATER SUPPLY IS PROHIBITED UNDER FEDERAL LAW IN THE WORKING AREA. DO NOT PERMIT EATING, DRINKING, OR THE USE OF TOBACCO PRODUCTS WHILE HANDLING.</p> |
| <b>Protective Gloves:</b>        | HEAT PROTECTIVE RUBBER   |

**SECTION 9 – Additional Information**



This company cannot anticipate all conditions of handling and use of this product. Therefore, this company accepts no responsibility for results obtained by the application of this information, or the safety and suitability of our products either alone or in combination with other products. It is the responsibility of the user to provide a safe workplace, using the health and safety information contained herein as a guide. This company will accept no liability for damages or loss incurred from the improper handling and use of this product.