

SAFETY DATA SHEET

This Safety Data Sheet has been prepared to conform to the EU Regulation and the OSHA Hazard Communication Standard.

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

1.1 Product Identifier:

Product Name: #775 Latex Solder Mask
Part Number: 775-8, 775-1
SDS Date of Preparation: 05/26/17

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against:

Product Use: Liquid solder mask
Uses Advised Against: None known

1.3 Details of the Supplier of the Safety Data Sheet:

Supplier: Xuron Corporation
62 Industrial Park Road
Saco, ME 04072
Information Phone Number: 207-283-1401

1.4 Emergency Telephone Number:

Emergency Spill Information: 207-283-1401

SECTION 2: HAZARDS IDENTIFICATION
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2.1 Classification of the Substance or Mixture:

GHS Classification/ CLP Regulation (EC) No 1272/2008:

Eye Irritant Category 2A (H319)
Respiratory Sensitizer Category 1 (H334)
Skin Irritant Category 2 (H315)
Skin Sensitizer Category 1 (H317)
Specific Target Organ Toxicity Repeated Exposure Category 2 (H373)
Aquatic Chronic Toxicity Category 3 (H412)

2.2 Label Elements:

Danger!



Contains: Natural Rubber Latex, Ethylene glycol, Potassium Hydroxide, Zinc dibutyldithiocarbamate

Hazard Phrases

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H373	May cause damage to kidneys through prolonged or repeated exposure by ingestion.
H412	Harmful to aquatic life with long lasting effects.

Precautionary Phrases

P260	Do not breathe mist, vapours or spray.
P264	Wash thoroughly after handling.
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.

P284	In case of inadequate ventilation wear respiratory protection.
P314	Get medical attention if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minute. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical attention.
P302 + P352	IF ON SKIN: Wash with plenty of water.
P333 + P313	If skin irritation or rash occurs: Get medical attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor.
P501	Dispose of contents and container in accordance with local and national regulations.

2.3 Other Hazards: None known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixture:

Chemical Name	CAS#	EINECS#	CLP Annex VI Classification	%
Natural Rubber Latex	9006-04-6	232-689-0	Skin Sens. Cat 1 (H317), Resp. Sens. Cat 1 (H334)	Variable
Polyisoprene Emulsion	9003-31-0	Exempt	No GHS Classification	55-65
Kaolin	1332-58-7	310-194-1	No GHS Classification	10-20
Titanium Dioxide*	13463-67-7	236-675-5	Carc. Cat 2 (H351)	<10
Ethylene glycol	107-21-1	203-473-3	Acute Tox. Cat 4 (H302), STOT RE Cat 2 (H373)	<5
Wax Emulsion	64742-51-4/ 64742-60-5	265-154-5/ 265-163-4	No GHS Classification	<2
Potassium Hydroxide	1310-58-3	215-181-3	Met. Corr. Cat 1 (H290), Acute Tox. Cat 4 (H302), Skin Corr. Cat 1A (H314),	0-1
Ammonia	7664-41-7	231-635-3	Flam. Gas Cat 2 (H221), Comp. Gas (H280), Acute Tox. Cat 3 (H331), Skin Corr. Cat 1B (H314), Aq. Acute Cat 1 (H400), Aq. Chronic Cat 2 (H411), EUH071	<0.5
Zinc dibutyldithiocarbamate	136-23-2	205-232-8	Skin Irrit. Cat 2 (H315), Eye Irrit. Cat 2 (H319), Skin Sens. Cat 1 (H317), STOT SE Cat 3 (H335), Aq. Acute Cat 1 (H400), Aq. Chronic Cat 1 (H410)	<0.1

*The Titanium dioxide in this product is inextricably bound within the polymer matrix of this product.

See Section 16 for further information on GHS Classification.

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures:

Eye: Immediately rinse thoroughly with water for several minutes, while holding the eye lids open to be sure the material is washed out. Get medical attention if irritation persists.

Skin: Remove contaminated clothing. Wash contact area with soap and water for several minutes. Get medical attention if irritation or rash occurs. Launder clothing before re-use.

Inhalation: Remove victim to fresh air. Give artificial respiration if needed. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention if breathing is difficult.

Ingestion: Do not induce vomiting unless directed to do so by medical personnel. If conscious, rinse mouth and give 1 or

2 glasses of water to drink. Never give anything by mouth to an unconscious or drowsy person. Get medical attention.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed: May cause mild to moderate eye and skin irritation. May cause allergic skin and respiratory reaction (sensitization). Individuals sensitized to natural latex may experience breathing difficulties through skin contact. May cause respiratory tract irritation. Prolonged or repeated exposure may cause kidney damage. May cause intestinal blockage if swallowed.

4.3 Indication of any immediate medical attention and special treatment needed: Immediate medical attention is required if experiencing respiratory problems or breathing difficulties. Individuals with known latex allergies should not use this product.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing Media: Use water spray, foam, dry powder, or carbon dioxide.

5.2 Special Hazards Arising from the Substance or Mixture:

Unusual Fire and Explosion Hazards: None known.

Combustion Products: Oxides of carbon.

5.3 Advice for Fire-Fighters:

Wear an approved, positive pressure, self-contained breathing apparatus and full protective clothing. Cool fire exposed containers with water. Contain water used in firefighting from entering sewers or natural waterways.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Evacuate spill area and keep unprotected personnel away. Wear appropriate protective clothing to prevent eye and skin contact including impervious gloves, safety goggles and respirator if needed. Do not breathe vapors or mists. Ventilate area.

6.2 Environmental Precautions:

Avoid releases to the environment. Report spills and releases as required to appropriate authorities.

6.3 Methods and Material for Containment and Cleaning Up:

Cover with an inert absorbent material and collect into an appropriate container for disposal. Scrape up dried residue.

6.4 Reference to Other Sections:

Refer to Section 8 for Personal Protective Equipment and Section 13 for Disposal information.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling: Do not breathe vapors or mists. Use with adequate ventilation. Avoid contact with the eyes, skin and clothing. Always wear impervious gloves, chemical safety goggles and protective clothing when handling this material. Wash thoroughly after handling. Do not eat, drink or smoke in the work area. No smoking in storage or use areas. Keep containers closed when not in use.

7.2 Conditions for Safe Storage, Including any Incompatibilities: Store in a cool, dry, well-ventilated location away from incompatible materials. Keep containers closed when not in use. Protect from freezing. Do not store in direct sunlight.

7.3 Specific end use(s): Industrial use only

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters:

Chemical Name	Exposure Limits
Natural Rubber Latex	0.0001 mg/m ³ (Inhalable) TWA ACGIH TLV (Skin; DSEN; RSEN) 0.001 mg/m ³ (proteins) TWA Belgium OEL
Polyisoprene Emulsion	None Established
Kaolin	2 mg/m ³ (Respirable) TWA ACGIH TLV 5 mg/m ³ (Respirable fraction), 15 mg/m ³ (Total dust) TWA OSHA PEL

	2 mg/m3 (respirable aerosol) TWA UK WEL 2 mg/m3 TWA Belgium OEL
Titanium Dioxide	10 mg/m3 TWA ACGIH TLV 15 mg/m3 (Total dust) TWA OSHA PEL 10 mg/m3 (inhalable aerosol), 4 mg/m3 (respirable aerosol) TWA UK WEL 10 mg/m3 TWA Belgium OEL
Ethylene glycol (as vapor)	10 mg/m3 STEL ACGIH TLV (Aerosol only) 25 ppm TWA, 50 ppm STEL ACGIH TLV (vapor) 10 mg/m3 TWA UK WEL (particulate) 20 ppm TWA, 40 ppm STEL UK WEL (vapor) 26 mg/m3 TWA, 52 mg/m3 STEL DFG MAK (particulate) 10 ppm TWA, 20 ppm STEL DFG MAK (vapor) 20 ppm TWA, 40 ppm STEL EU OEL 52 mg/m3 TWA, 104 mg/m3 STEL Belgium OEL (particulate)
Wax Emulsion (as paraffin wax fume)	2 mg/m3 TWA ACGIH TLV 2 mg/m3 TWA, 6 mg/m3 STEL UK WEL 2 mg/m3 TWA Belgium OEL
Potassium Hydroxide	2 mg/m3 Ceiling ACGIH TLV 2 mg/m3 STEL UK WEL 2 mg/m3 STEL Belgium OEL
Ammonia	25 ppm TWA, 35 ppm STEL ACGIH TLV 50 ppm TWA OSHA PEL 20 ppm TWA, 40 ppm STEL DFG MAK 25 ppm TWA, 35 ppm STEL UK WEL 20 ppm TWA, 50 ppm STEL EU OEL 20 ppm TWA, 50 ppm STEL Belgium OEL
Zinc dibutyldithiocarbamate (as Zinc Compounds, as Zn)	2 mg/m3 TWA, 4 mg/m3 STEL DFG MAK (Inhalable) 0.1 mg/m3 TWA, 0.4 mg/m3 STEL DFG MAK (Respirable)

8.2 Exposure Controls:

Ventilation: Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits.

Personal Protective Equipment:

Respiratory Protection: In operations where the occupational exposure limits are exceeded, an approved respirator with applicable cartridges or supplied air respirator should be used. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.

Skin Protection: Impervious gloves are recommended to prevent skin contact. Contact your glove supplier for selection assistance. In Europe follow EN 374.

Eye Protection: Chemical safety goggles are recommended to prevent eye contact. In Europe follow EN 166.

Other Protective Equipment: Impervious clothing is required to prevent skin contact and contamination of personal clothing. In Europe follow EN 13034. An eye wash facility and safety shower should be available in the work area.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties:

Appearance: White liquid	Relative Density: 1.01
Odor: Ammonia odor	Solubility(ies): Dispersible in water
Odor Threshold: Not available	Octanol/Water Partition Coefficient: Not available
pH: Not available	Auto-ignition Temperature: Not available
Melting Point/Freezing Point: Not available	Decomposition Temperature: No data available
Initial Boiling Point/Range: 100°C (212°F)	Viscosity: 18,000 – 22,000 CPS
Flash Point: Not available	Explosive Properties: Not explosive
Evaporation Rate: Same as water	Oxidizing Properties: Not an oxidizer
Flammable Limits: LEL: Not available UEL: Not available	Flammability (solid, gas): Not applicable
Vapor Pressure: Not available	Molecular Formula: Mixture

Vapor Density: Not available

Molecular Weight: Mixture

9.2 Other Information: None available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity: Not reactive.

10.2 Chemical Stability: Stable under normal storage and handling conditions.

10.3 Possibility of Hazardous Reactions: Hazardous polymerization will not occur. Contact with acidic materials may cause latex to coagulate.

10.4 Conditions to Avoid: None known.

10.5 Incompatible Materials: Acidic materials.

10.6 Hazardous Decomposition Products: Combustion will produce oxides of carbon.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

Potential Health Effects:

Eye: Contact with liquid and vapors may cause mild to moderate irritation.

Skin: May cause mild to moderate irritation. May cause allergic skin reaction (sensitization).

Inhalation: Inhalation of vapors or mists may cause respiratory tract irritation and an allergic respiratory reaction (sensitization).

Ingestion: Swallowing may cause mouth, throat, and gastrointestinal irritation with nausea, vomiting, and diarrhea. Indigestion may cause intestinal blockage.

Chronic Hazards: None known.

Acute Toxicity Values:

Natural Rubber Latex: No toxicity data available

Polyisoprene Emulsion: No toxicity data available

Kaolin: Oral rat LD50 - >5,000 mg/kg, Skin rat LD50 - >5000 mg/kg

Titanium Dioxide: Oral rat LD50 - >5,000 mg/kg, Inhalation rat LC50 - >6.82 mg/L/4hr

Ethylene glycol: Oral rat LD50 - 4700 mg/kg, Skin rabbit LD50 - 9530 mg/kg

Wax Emulsion: Oral rat LD50 - >5,000 mg/kg, Skin rat LD50 - >2,000 mg/kg

Potassium Hydroxide: Oral rat LD50 - 333 mg/kg

Ammonia: Oral rat LD50 - 350 mg/kg, Inhalation rat LC50 - 13770 mg/m³/1hr

Zinc dibutyldithiocarbamate: Oral rat LD50 - >5000 mg/kg, Skin rabbit LD50 - >2000 mg/kg

Skin corrosion/irritation: This product is classified as a skin irritant.

Eye damage/irritation: This product is classified as an eye irritant.

Respiratory Irritation: No data available.

Respiratory Sensitization: Inhalation of latex proteins can cause allergic reactions with asthma-like symptoms and (rarely) shock. Individuals sensitized to natural latex may experience breathing difficulties through skin contact.

Skin Sensitization: Sensitive individuals exposed to products containing natural latex may develop allergic reactions such as skin rashes and hives.

Germ Cell Mutagenicity: No data available.

Carcinogenicity: This product contains a small amount of Titanium Dioxide is listed as Possible carcinogenic to humans (Group 2B) by IARC. However, titanium dioxide is inextricably bound in the product matrix and no exposure will occur. None of the other components of this product are listed as carcinogens by OSHA, IARC, NTP, and the EU CLP.

Reproductive Toxicity: No data available.

Specific Target Organ Toxicity:

Single Exposure: No data available

Repeat Exposure: No data available

Aspiration Hazard: This product is not classified as an aspiration hazard. None of the components of this product are aspiration hazards.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

Ethylene glycol: 96 hr LC50 Fathead minnow- 72860 mg/L, 48 hr EC50 Daphnia magna- >100 mg/L
 Ammonia: 96 hr LC50 Rainbow trout- 0.6-1.1 mg/L (unionized ammonia), 96 hr LC50 Rainbow trout- 11-48 mg/L (total ammonia), 48 hr LC50 Daphnia magna- 92.4-110 mg/L (M-Factor Acute=1)
 Zinc dibutyldithiocarbamate: 96 hr LC50 Guppy - >16000 ug/L, 48 hr EC50 Daphnia magna- 0.74 mg/L (M- Factor Acute = 1, M-Factor Chronic =10)

This product is classified as harmful to the aquatic environment with long-term adverse effects. Releases to the environment should be avoided.

12.2 Persistence and Degradability: Zinc dibutyldithiocarbamate: Not readily biodegradable

12.3 Bioaccumulative Potential: No data available

12.4 Mobility in Soil: No data available

12.5 Results of PBT and vPvB Assessment: No data available

12.6 Other Adverse Effects: No data available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Dispose in accordance with all local, state and federal regulations.

SECTION 14: TRANSPORTATION INFORMATION

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Hazard Class(s)	14.4 Packing Group	14.5 Environmental Hazards
US DOT	None	Not Regulated	None	None	Not Applicable
Canadian TDG	None	Not Regulated	None	None	Not Applicable
EU ADR/RID	None	Not Regulated	None	None	Not Applicable
IMDG	None	Not Regulated	None	None	Not Applicable
IATA/ICAO	None	Not Regulated	None	None	Not Applicable

14.6 Special Precautions for User: Not applicable

14.7 Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

SECTION 15: REGULATORY INFORMATION

15.1 Safety, Health and Environment Regulations/Legislation Specific for the Substance or Mixture:

Skin Corr. Cat 1B Skin Corrosion Category 1B
Skin Irrit. Cat 2 Skin Irritant Category 2
Skin Sens. Cat 1 Skin Sensitizer Category 1
STOT RE Cat 2 Specific Target Organ Toxicity Repeated Exposure Category 2
STOT SE Cat 3 Specific Target Organ Toxicity Single Exposure Category 3
H221 Flammable gas
H280 Contains gas under pressure; may explode if heated.
H290 May be corrosive to metals.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
EUH071 Corrosive to the respiratory tract.

This SDS complies with Regulation (EU) No. 1907/2006 and 2015/830, US OSHA Hazcom 2012 (29 CFR1910.1200) and Canada WHMIS 2015.

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This above information is believed to be correct but does not propose to be all inclusive and shall be used only as a guide. Xuron Corporation shall not be held liable for any damage resulting from handling or from contact with the above product.