

SAFETY DATA SHEET

SECTION 1 : IDENTIFICATION

Product identifier used on the label:

Product Name: **Latex Solder Mask**
 Product Code: None
 SDS Manufacturer Number: Nor_237619

Other means of identification:

Recommended use of the chemical and restrictions on use:

Product Use/Restriction: Not applicable.

Chemical manufacturer address and telephone number:

Manufacturer Name: Nordson EFD LLC
 Address: 40 Catamore Boulevard
 East Providence, Rhode Island 02914
 USA
 General Phone Number: +1-401-431-7000

Emergency phone number:

Emergency Phone Number: Chemtrec (Transportation) +1-800-424-9300 Outside USA +1-703-527-3887

SECTION 2 : HAZARD(S) IDENTIFICATION

Classification of the chemical in accordance with CFR 1910.1200(d)(f):

GHS Pictograms:



Signal Word: DANGER.

GHS Class: Respiratory sensitisation. Category 1.
 Eye Irritation. Category 2.
 Skin Irritation. Category 2.
 Skin Sensitization. Category 1.
 Specific Target Organ Toxicity - STOT, Single Exposure SE. Category 3.

Hazard Statements: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H319 - Causes serious eye irritation.
 H315 - Causes skin irritation.
 H317 - May cause an allergic skin reaction.
 H335 - May cause respiratory irritation.

Precautionary Statements: P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
 P264 - Wash hands thoroughly after handling.
 P271 - Use only outdoors or in a well-ventilated area.
 P272 - Contaminated work clothing should not be allowed out of the workplace.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.
 P284 - In case of inadequate ventilation wear respiratory protection.
 P302+P352 - IF ON SKIN: Wash with plenty of water.
 P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
 P321 - Specific treatment (see ... on this label).
 P332+P313 - If skin irritation occurs: Get medical advice/attention.
 P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
 P337+P313 - If eye irritation persists: Get medical advice/attention.
 P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
 P362+P364 - Take off contaminated clothing and wash it before reuse.
 P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
 P405 - Store locked up.
 P501 - Dispose of contents/container in accordance with Local, State, Federal and Provincial regulations.

Hazards not otherwise classified that have been identified during the classification process:

Route of Exposure: Eyes. Skin. Inhalation. Ingestion.

Eye: May cause irritation.

Skin: May cause irritation.

Target Organs: Respiratory system, eyes, central and peripheral nervous systems, the kidneys, and the blood system.

Aggravation of Pre-Existing: Persons with asthmatic-type conditions. chronic bronchitis. other chronic respiratory diseases. recurrent

Exposure Prevention Conditions:

skin eczema or sensitization should be excluded from working with this product. Once sensitized no further exposure can be permitted.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures:

Chemical Name	CAS#	Ingredient Percent	EC Num.
Natural Rubber Latex	9006-04-6	>85 by weight	232-689-0
Titanium Dioxide	13463-67-7	<5 by weight	236-675-5
Ethylene glycol	107-21-1	<10 by weight	203-473-3

Notes : Although IARC has classified titanium dioxide as possibly carcinogenic to humans (2B), their summary concludes: "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other materials, such as paint."

SECTION 4 : FIRST AID MEASURES

Description of necessary measures:

- Eye Contact:** Immediately flush eyes with plenty of water for 15 to 20 minutes. Get medical attention, if irritation or symptoms of overexposure persists.
- Skin Contact:** Immediately wash skin with soap and plenty of water. Get medical attention if irritation develops or persists.
- Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.
- Ingestion:** If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

Most important symptoms/effects, acute and delayed:

Other First Aid: 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. This product contains Titanium Dioxide which is suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

Indication of immediate medical attention and special treatment needed:

Note to Physicians: Individuals with known latex allergies should not use this product. Immediate medical attention is required if experiencing respiratory problems or breathing difficulties.

SECTION 5 : FIRE FIGHTING MEASURES

Suitable and unsuitable extinguishing media:

- Suitable Extinguishing Media:** Use alcohol resistant foam, carbon dioxide, dry chemical, or water fog or spray when fighting fires involving this material.
- Unsuitable extinguishing media:** Not determined.

Specific hazards arising from the chemical:

- Hazardous Combustion Byproducts:** Oxides of carbon and other unknown organic compounds.
- Unusual Fire Hazards:** None.

Special protective equipment and precautions for fire-fighters:

- Protective Equipment:** As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear.
- Fire Fighting Instructions:** Evacuate area of unprotected personnel. Use cold water spray to cool fire exposed containers to minimize risk of rupture. Do not enter confined fire space without full protective gear. If possible, contain fire run-off water.

NFPA Ratings:

- NFPA Health: 2
- NFPA Flammability: 1
- NFPA Reactivity: 0



SECTION 6 : ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personal Precautions: Evacuate area and keep unnecessary and unprotected personnel from entering the spill area. Avoid inhaling vapors, mists, or fumes. Avoid contact with skin, eyes and clothing.

Environmental precautions:

Environmental Precautions: Avoid runoff into storm sewers, ditches, and waterways.

Methods and materials for containment and cleaning up:

Methods for containment: Contain spills with an inert absorbent material such as soil or sand. Prevent from spreading by covering, diking or other means. Provide ventilation.

Methods for cleanup: Clean up spills immediately observing precautions in the protective equipment section. Place into a suitable container for disposal. Provide ventilation. After removal, flush spill area with soap and water to remove trace residue.

Reference to other sections:

Other Precautions: Refer to Section 8 for information on personal protection equipment.

SECTION 7 : HANDLING and STORAGE

Precautions for safe handling:

Handling: Use with adequate ventilation. Avoid breathing vapor and fumes. Use only in accordance with directions.

Hygiene Practices: Avoid inhaling vapors, mists, or fumes. Wash thoroughly after handling.

Special Handling Procedures: Do not use in areas without adequate ventilation.

Conditions for safe storage, including any incompatibilities:

Storage: Store in a cool, dry, well ventilated area away from sources of heat, combustible materials, direct sunlight, and incompatible substances. Keep container tightly closed when not in use. Protect from freezing.

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE GUIDELINES:

Natural Rubber Latex :

Guideline ACGIH: Skin: Yes.
Sensitizer.: Sen
Skin: Yes.
Sensitizer.
TLV-TWA: 0.0001 mg/m3 Inhalable fraction (I)
TLV-TWA: 0.0001 mg/m3 Inhalable fraction (I)

Titanium Dioxide :

Guideline ACGIH: TLV-TWA: 10 mg/m3

Ethylene glycol:

Guideline ACGIH: TLV-STEL: C 100 mg/m3 (H)

Appropriate engineering controls:

Engineering Controls: Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.

Individual protection measures:

Eye/Face Protection: Safety glasses with side-shields.

Skin Protection Description: Wear appropriate protective gloves and other protective apparel to prevent skin contact. Consult manufacturer's data for permeability data.

Hand Protection Description: Wear appropriate protective gloves. Consult glove manufacturer's data for permeability data.

Respiratory Protection: When ventilation is not sufficient to remove fumes from the breathing zone, a safety approved respirator or self-contained breathing apparatus should be worn.

General Hygiene Considerations: Keep away from food, drink and animal feeding stuffs. Remove contaminated clothing. Wash hands before breaks and at the end of workday. Avoid contact with eyes and skin.

PPE Pictograms:



SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL AND CHEMICAL PROPERTIES:

Physical State: Liquid.

Color: White

Odor: Ammonia odor.

Odor Threshold: Not determined.

Boiling Point:	100°C (212°F)
Melting Point:	> 100 °C (> 212 °F)
Specific Gravity:	1.01
Solubility:	Dispersible in water.
Vapor Density:	Not determined.
Vapor Pressure:	Not determined.
Percent Volatile:	Not determined.
Evaporation Rate:	Similar to water.
pH:	Not determined.
Viscosity:	18,000 – 22,000 CPS
Coefficient of Water/Oil Distribution:	Not determined.
Flash Point:	Not determined.
Lower Flammable/Explosive Limit:	Not determined.
Upper Flammable/Explosive Limit:	Not determined.
Auto Ignition Temperature:	Not determined.
Explosive Properties:	Not determined.
Oxidizing Properties:	Not an oxidizer
VOC Content:	Not determined.
9.2. Other information:	
Expansion Ratio:	Not determined.

SECTION 10 : STABILITY and REACTIVITY

Reactivity:

Reactivity: Not reactive under normal conditions of use and storage.

Chemical Stability:

Chemical Stability: Stable under normal temperatures and pressures.

Possibility of hazardous reactions:

Hazardous Polymerization: Not reported. Contact with acidic materials may cause latex to coagulate.

Conditions To Avoid:

Conditions to Avoid: None known.

Incompatible Materials:

Incompatible Materials: Acidic materials.

SECTION 11 : TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

Ethylene glycol:

Eye: Administration into the eye - Rat Standard Draize test: 0.012 %/3D [Not reported.]
Administration into the eye - Rabbit Standard Draize test: 500 mg/24H [Mild]
Administration into the eye - Rabbit Standard Draize test: 100 mg/1H [Mild]
Administration into the eye - Rabbit Standard Draize test: 0.012 ppm/3D [Not reported.]
Administration into the eye - Rabbit Standard Draize test: 1440 mg/6H [Moderate] (RTECS)

Skin: Administration onto the skin - Rabbit LD50 - Lethal dose, 50 percent kill: 9530 uL/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)

Ingestion: Oral - Rat LD50 - Lethal dose, 50 percent kill: 4700 mg/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)

SECTION 12 : ECOLOGICAL INFORMATION

Ecotoxicity:

Ecotoxicity: Toxic to aquatic life with long lasting effects.

Persistence and degradability:

Biodegradation: Flux is biodegradable.

Bioaccumulative potential:

Bioaccumulation: Not determined.

Mobility in soil:

Mobility In Environmental Media: Not determined.

SECTION 13 : DISPOSAL CONSIDERATIONS

Description of waste:

Waste Disposal: Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines.

SECTION 14 : TRANSPORT INFORMATION

DOT Shipping Name: Not Regulated.
DOT UN Number: Not Regulated.
IATA Shipping Name: Not Regulated.
IATA UN Number: Not Regulated.
IMDG UN Number : Not Regulated.
IMDG Shipping Name : Not Regulated.
RID UN Number : Not Regulated.
RID Shipping Name : Not Regulated.

SECTION 15 : REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product:

Natural Rubber Latex :

Canada DSL: Listed
EC Number: 232-689-0

Titanium Dioxide :

TSCA Inventory Status: Listed
California PROP 65: IARC: Group 2B: Possibly carcinogenic to humans.
Canada DSL: Listed
EC Number: 236-675-5

Ethylene glycol :

TSCA Inventory Status: Listed
Section 313: EPCRA - 40 CFR Part 372 - (SARA Title III) Section 313 Listed Chemical.
Canada DSL: Listed
EC Number: 203-473-3

SECTION 16 : ADDITIONAL INFORMATION

HMIS Ratings:

HMIS Health Hazard: 2
HMIS Fire Hazard: 1
HMIS Reactivity: 0
HMIS Personal Protection: X

Health Hazard	2
Fire Hazard	1
Physical Hazard	0
Personal Protection	X

SDS Creation Date: September 15, 2016
SDS Revision Date: September 15, 2016
SDS Format:
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