



MATERIAL SAFETY DATA SHEET

CHROMATE INDUSTRIAL CORPORATION®
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**FOR CHEMICAL
EMERGENCY**
Call ChemTrec day/night:
1-800-424-9300

SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: PRO-SHIELD™ **DATE PREPARED:** JUNE 1, 2011
PART NUMBER: 4005PS TO 6360PS – PART A **CHROMATE INDUSTRIAL CORPORATION**
(ALUMINUM) **5250-A Naiman Parkway, Solon, OH 44139 • (888) 567-2206**
PRODUCT TYPE: METAL

SECTION 2 — COMPOSITION INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS #	% BY WEIGHT	OSHA PEL	ACGIH TLV	STEL
ALUMINUM	7429-90-5	90 - 99%	5 mg/m ³	5 mg/m ³	N/D

* An asterisk (*) indicates the toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and 40 CFR 372.

SECTION 3 — HAZARDS IDENTIFICATION

NFR RATINGS:	HEALTH: 0	FLAMMABILITY: 1	REACTIVITY: 1	SPECIFIC: 0
HAZARD RATINGS:	HEALTH: 0	FLAMMABILITY: 1	REACTIVITY: 1	PROTECTION: B

PRIMARY ROUTES OF ENTRY: INHALATION, INGESTION, SKIN, AND EYES

EFFECTS OF OVEREXPOSURE:

INHALATION: Breathing of high vapor concentrations may be irritating. Temporary headache may occur. May develop lack of coordination and stagger.

INGESTION: Headache and general weakness may occur. The substance is moderately toxic if swallowed. Swallowing large quantities may cause vomiting.

SKIN CONTACT: Prolonged or repeated contact may cause irritation. Itching sensation will occur. Painful sensation will occur.

EYE CONTACT: May cause slight irritation to sensitive individuals. May cause more damage to people with ophthalmological problems. Intense watering of eyes will occur.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None.

SECTION 4 — FIRST AID MEASURES

EMERGENCY FIRST AID PROCEDURES: Contact a physician in all cases of exposure. First aiders should provide for their own safety prior to rendering assistance.

INHALATION: Remove the victim to cool uncontaminated area. Monitor the patient for respiratory distress.

INGESTION: Induce vomiting. Give water. Contact physician. Never administer anything to an unconscious person.

SKIN CONTACT: Wash affected area(s) with soap and water. Contact physician. Always clean contaminated clothing and gear prior to reuse.

EYE CONTACT: Wash affected eyes under slowly running water for 15 minutes. Contact physician immediately.

CAUTION: If unconscious, having trouble breathing, or in convulsions, DO NOT INDUCE VOMITING OR GIVE WATER.

SECTION 5 — FIRE FIGHTING MEASURES

FLASH POINT (METHOD USE): N/A

FLAMMABLE LIMITS: LEL: N/A UEL: N/A

EXTINGUISHING MEDIA: Never allow run-off to enter sewers or waterways. Dry chemical. Do not use water.

FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus.

UNUSUAL AND EXPLOSION HAZARDS: Runoff to sewer may create a fire or explosion hazard. Wear self-contained breathing apparatus/protective clothing.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

SPILLS OR LEAKS: Never allow spills to enter sewers or waterways. Eliminate sources of ignition. Avoid dusting. Sweep up and collect for disposal in plastic recovery drum. Always use non-sparking tools. Flush residue with large quantities of water to chemical drain. For large spills, entry into large tanks, vessels or enclosed small spaces with inadequate ventilation, a pressure-demand, self-contained breathing apparatus is recommended.

SECTION 7 — HANDLING AND STORAGE

SPECIAL PRECAUTIONS: Material should be stored in the properly sealed original container. NON-REGULATED.

SECTION 8 — EXPOSURE CONTROLS / PERSONAL PROTECTION

RESPIRATORY: If the OSHA-PEL/ACGIH-TLV are exceeded, it is recommended that a NIOSH approved respirator be used. Consult with your industrial hygienist for appropriate cartridge selection and use. For large spills, entry into large tanks, vessels or enclosed small spaces with inadequate ventilation, a pressure-demand, self-contained breathing apparatus is recommended.

SKIN PROTECTION: Chemical aprons, boots and gloves. If clothing is contaminated, remove clothing and thoroughly wash the affected body area. Launder contaminated clothing before reuse. Consult with your Safety Professional/Industrial Hygienists for specific information regarding applications at your facility.

EYE PROTECTION: Splash-proof goggles; face shields.

VENTILATION: General ventilation is recommended. Additionally, local exhaust ventilation is recommended where vapors, dusts, mists, or aerosols may be released.

SECTION 9 — PHYSICAL / CHEMICAL PROPERTIES

BOILING POINT: N/A

VAPOR PRESSURE: N/A

DENSITY: 168 Lb/Cubic Feet

SOLUBILITY IN WATER: Insoluble

APPEARANCE AND ODOR: Gray Color, Odorless

SPECIFIC GRAVITY (H₂O = 1): N/A

MELTING POINT: N/A

pH: Does not apply

FREEZING POINT: N/A

FORM: Solid

SECTION 10 — STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID: Heat, sparks, open flame, water, strong oxidizing agents.

HAZARDOUS POLYMERIZATION: Will not occur

INCOMPATIBILITY (MATERIALS TO AVOID): Acids, oxidizing agents, strong bases.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Unknown

SECTION 11 — TOXICOLOGICAL INFORMATION

TOXICOLOGY: Toxicity Studies have not been conducted on this product. However, toxicity literature surveys have been conducted on the ingredient(s) in Section 2. The results are as follows:

ACUTE ORAL TOXICITY: Unknown

ACUTE DERMAL TOXICITY: Unknown

ACUTE RESPIRATORY TOXICITY: Unknown

TOXICITY HAZARD REVIEW (THR): Unknown

CARCINOGENICITY: NTP: N/L IARC MONOGRAPH: N/L OSHA REGULATED: N/R

SECTION 12 — ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: Do not allow to reach water. Water Hazard Class 2. Technical Directive Air (Styrene) Class II.

SECTION 13 — DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of by an approved method at an approved secure facility. Due to more restrictive waste disposal regulations, NEVER waste treat or dispose of material until you check your appropriate State and Federal, and/or local authorities.

SECTION 14 — TRANSPORTATION INFORMATION

D.O.T. PROPER SHIPPING NAME: Aluminum Powder Uncoated	IATA: Aluminum Powder Uncoated
HAZARD: Dangerous when wet	ITA CLASS: 4.3 ITA SUB CLASS: 0.0
UN/NA #: UN1396	UN/NA #: UN1396 PKG GROUP: II
IMO: Aluminum Powder	EXPORT LICENSE MAY BE REQUIRED TO EXPORT THIS PRODUCT
IMO CLASS: No data available	IMO SUB CLASS: No data available
UN #: No data available	PKG GROUP: No data available

SECTION 15 — REGULATORY INFORMATION

EXPOSURE LIMITS: No data available.

SECTION 16 — OTHER INFORMATION

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in this MSDS. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.



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SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: PRO-SHIELD™
(ZINC COMPONENT)
(ZINC COMPONENT OF PRO-SHIELD COATING)
DATE PREPARED: JUNE 1, 2011

PART NUMBER: 4005PS TO 6360PS – PART B
CHROMATE INDUSTRIAL CORPORATION
5250-A Naiman Parkway, Solon, OH 44139 • (888) 567-2206

PRODUCT TYPE: ZINC DUST

SECTION 2 — COMPOSITION INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS #	% BY WEIGHT	OSHA PEL	ACGIH TLV	STEL
ZINC	7440-66-6	95 - 97%	10 mg/m ³	N/D	N/D
ZINC OXIDE	1314-13-2	3 - 5%	5 mg/m ³ (FUME) 10 mg/m ³ (DUST)	N/D	N/D

* An asterisk (*) indicates the toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and 40 CFR 372.

SECTION 3 — HAZARDS IDENTIFICATION

NFR RATINGS: HEALTH: 0 FLAMMABILITY: 1 REACTIVITY: 1 SPECIFIC: 0
HAZARD RATINGS: HEALTH: 0 FLAMMABILITY: 1 REACTIVITY: 1 PROTECTION: A

PRIMARY ROUTES OF ENTRY: INHALATION, INGESTION, SKIN, AND EYES

EFFECTS OF OVEREXPOSURE:

INHALATION: When zinc fumes are inhaled, they may cause flu-like symptoms or fever, chills and nausea.

INGESTION: Ingestion may cause fever, stomach cramps and diarrhea.

SKIN CONTACT: May irritate skin.

EYE CONTACT: May irritate eyes.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None.

SECTION 4 — FIRST AID MEASURES

EMERGENCY FIRST AID PROCEDURES:

INHALATION: Consult physician immediately.

INGESTION: Consult physician immediately.

SKIN CONTACT: Wash thoroughly with soap and water.

EYE CONTACT: Flush eyes with luke warm, gently running water. If irritation persists, consult physician.

SECTION 5 — FIRE FIGHTING MEASURES

FLASH POINT (METHOD USE): N/A

FLAMMABLE LIMITS: LEL: 480 g/m³ Zinc Dust UEL: N/A

EXTINGUISHING MEDIA: Class O, Dry Powder Type, Avoid water.

FIRE FIGHTING PROCEDURES: Use approved self-contained breathing apparatus and full protective clothing if fighting fire.

UNUSUAL AND EXPLOSION HAZARDS: Finely divided zinc dust may form explosive mixtures with air if ignited. Contact with acids or alkaline hydroxides may evolve hydrogen gas.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

SPILLS OR LEAKS: Ensure adequate ventilation during cleanup.

N/A — NOT APPLICABLE

N/D — NOT DETERMINED

N/E — NONE ESTABLISHED

N/R — NOT REGULATED

N/L — NOT LISTED

SECTION 7 — HANDLING AND STORAGE

SPECIAL PRECAUTIONS: Keep dust levels low. Keep in dry, cool, well ventilated area away from heat.

SECTION 8 — EXPOSURE CONTROLS / PERSONAL PROTECTION

RESPIRATORY: Use OSHA approved dust mask or air supplied mask if the permissible exposure limit is exceeded.

SKIN PROTECTION: Not applicable

EYE PROTECTION: Safety glasses

HYGIENIC PRACTICES: Wash zinc dust from skin and protect against contamination of street clothes.

SECTION 9 — PHYSICAL / CHEMICAL PROPERTIES

BOILING POINT: 906°C

VAPOR PRESSURE: N/A

VAPOR DENSITY: N/A

SOLUBILITY IN WATER: Insoluble

APPEARANCE AND ODOR: Gray Dust/Powder

SPECIFIC GRAVITY (H₂O = 1): 7.1

MELTING POINT: N/A

REACTIVITY IN WATER: N/A

pH: DOES NOT APPLY

FORM: Solid

SECTION 10 — STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions.

CONDITIONS TO AVOID: Avoid moisture or high humidity. Bulk dust in damp state may heat spontaneously and ignite on exposure to air. Contact with acids or alkaline hydroxides may evolve explosive hydrogen gas. Forms zinc oxide when heated.

HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBILITY (MATERIALS TO AVOID): Halogen gases, acids, bases, oxidizers may react violently or cause hydrogen to be evolved.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Heat generates zinc oxide fumes.

SECTION 11 — TOXICOLOGICAL INFORMATION

EYE: No data available.

SKIN: No data available.

INGESTION: No data available.

INHALATION: No data available.

SUBCHRONIC: No data available.

CHRONIC CARCINOGENICITY

CARCINOGENICITY: NTP: N/L

IARC MONOGRAPH: N/L

OSHA REGULATED: N/R

TERATOLOGY: No data available.

REPRODUCTION: No data available.

MUTAGENICITY: No data available.

SECTION 12 — ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: Do not allow to reach water. Water Hazard Class 2. Technical Directive Air (Styrene) Class II.

SECTION 13 — DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose in accordance with local regulations.

SECTION 14 — TRANSPORTATION INFORMATION

TRANSPORTATION REQUIREMENTS (49CFR172-101)

D.O.T. CLASSIFICATION: CONSUMER COMMODITY ORM-D

D.O.T. SHIPPING NAME: NONE

SECTION 15 — REGULATORY INFORMATION

EXPOSURE LIMITS: No data available.

SECTION 16 — OTHER INFORMATION

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SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: PRO-SHIELD™
(TIN COMPONENT)
(TIN COMPONENT OF PRO-SHIELD COATING)
PART NUMBER: 4005PS TO 6360PS – PART C
PRODUCT TYPE: TIN POWDER

DATE PREPARED: JUNE 1, 2011
CHROMATE INDUSTRIAL CORPORATION
5250-A Naiman Parkway, Solon, OH 44139 • (888) 567-2206

SECTION 2 — COMPOSITION INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS #	% BY WEIGHT	OSHA PEL	ACGIH TLV	STEL
TIN	7440-31-5	100%	2 mg/m ³	N/D	N/D

* An asterisk (*) indicates the toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and 40 CFR 372.

SECTION 3 — HAZARDS IDENTIFICATION

NFR RATINGS:	HEALTH: 0	FLAMMABILITY: 1	REACTIVITY: 1	SPECIFIC: 0
HAZARD RATINGS:	HEALTH: 0	FLAMMABILITY: 1	REACTIVITY: 1	PROTECTION: A

PRIMARY ROUTES OF ENTRY: INHALATION, INGESTION, SKIN, AND EYES

EFFECTS OF OVEREXPOSURE:

INHALATION: May cause irritation of the respiratory tract. Tin dust or fume can cause a benign condition of lungs known as Stamosis.

INGESTION: No documented effects.

SKIN CONTACT: May cause some irritation.

EYE CONTACT: May irritate eyes.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Excessive exposure to tin fumes or dust may cause stamosis, a chronic respiratory disease resulting in reduced lung capacity and benign tumors.

SECTION 4 — FIRST AID MEASURES

EMERGENCY FIRST AID PROCEDURES:

INHALATION: Remove from exposure and consult a physician.

INGESTION: Consult physician immediately.

SKIN CONTACT: Wash affected areas with soap and water.

EYE CONTACT: Flush eyes with water for at least 15 minutes.

SECTION 5 — FIRE FIGHTING MEASURES

FLASH POINT (METHOD USE): N/A

FLAMMABLE LIMITS: LEL: 220 UEL: Not Known

EXTINGUISHING MEDIA: Dry sand or other inert material. Do not use water or Class "A", "B", or "C" extinguishers or halogenated agents.

FIRE-FIGHTING PROCEDURES: Gently cover the burning powder and form a ring around it with sand or other inert material. Allow to cool.

UNUSUAL AND EXPLOSION HAZARDS: Moderate fire and explosion hazard in the form of dust when exposed to flame.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

SPILLS OR LEAKS: Wear protective clothing, goggles and a NIOSH-approved respirator. Sprinkle moderate with damp sand and collect for disposal avoiding dust clouds as much as possible.

N/A — NOT APPLICABLE

N/D — NOT DETERMINED

N/E — NONE ESTABLISHED

N/R — NOT REGULATED

N/L — NOT LISTED

SECTION 7 — HANDLING AND STORAGE

SPECIAL PRECAUTIONS: Store in a cool, dry place avoiding contact with heat and acids. Avoid creating dust clouds.

SECTION 8 — EXPOSURE CONTROLS / PERSONAL PROTECTION

VENTILATION REQUIREMENTS: Local exhaust, minimum face velocity of 60 f.p.m.

RESPIRATORY: Use NIOSH/MSHA approved respirator. Use supplied air respiratory protection in confined or enclosed spaces if needed.

SKIN PROTECTION: Use chemical resistant gloves and apron to avoid prolonged or repeated skin contact.

EYE PROTECTION: Goggles or face splash shield.

HYGIENIC PRACTICES: Wash after use and before eating and drinking.

SECTION 9 — PHYSICAL / CHEMICAL PROPERTIES

BOILING POINT: 2260°C

VAPOR PRESSURE (mm Hg): N/A

VAPOR DENSITY (AIR = 1): N/A

SOLUBILITY IN WATER: None

APPEARANCE AND ODOR: Gray and Odorless

SPECIFIC GRAVITY (H₂O = 1): 7.3

MELTING POINT: 231.9°C

pH: N/A

EVAPORATION RATE (BUTYL ACETATE = 1): N/A

FORM: Solid

SECTION 10 — STABILITY AND REACTIVITY

STABILITY: Stable.

HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBILITY (MATERIALS TO AVOID): Open flames, strong acids, sulfur, chlorine, sodium and potassium peroxide.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Reaction with strong acids can produce toxic organic or inorganic tin compounds.

SECTION 11 — TOXICOLOGICAL INFORMATION

EYE: No data available.

SKIN: No data available.

INGESTION: No data available.

INHALATION: No data available.

SUBCHRONIC: No data available.

CHRONIC CARCINOGENICITY

CARCINOGENICITY: NTP: N/L

IARC MONOGRAPH: N/L

OSHA REGULATED: N/R

TERATOLOGY: No data available.

REPRODUCTION: No data available.

MUTAGENICITY: No data available.

SECTION 12 — ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: Do not allow to reach water. Water Hazard Class 2. Technical Directive Air (Styrene) Class II.

SECTION 13 — DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Put in a closed container for disposal. Disposal must comply with federal, state or local waste disposal laws.

SECTION 14 — TRANSPORTATION INFORMATION

TRANSPORTATION REQUIREMENTS (49CFR172-101)

D.O.T. CLASSIFICATION: CONSUMER COMMODITY ORM-D

D.O.T. SHIPPING NAME: NONE

SECTION 15 — REGULATORY INFORMATION

EXPOSURE LIMITS: No data available.

SECTION 16 — OTHER INFORMATION

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in this MSDS. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.



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SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: PRO-SHIELD™
SEALER COMPONENT)
(SEALER COMPONENT OF PRO-SHIELD COATING)
DATE PREPARED: JUNE 1, 2011
CHROMATE INDUSTRIAL CORPORATION
5250-A Naiman Parkway, Solon, OH 44139 • (888) 567-2206
PART NUMBER: 4005PS TO 6360PS – PART D
PRODUCT TYPE: SEALER

SECTION 2 — COMPOSITION INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS #	% BY WEIGHT	OSHA PEL	ACGIH TLV	STEL
SODIUM SILICATE	1344-09-8	90 - 100%	10 mg/m ³	N/D	N/D

* An asterisk (*) indicates the toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and 40 CFR 372.

SECTION 3 — HAZARDS IDENTIFICATION

NFR RATINGS:	HEALTH: 2	FLAMMABILITY: 0	REACTIVITY: 0	SPECIFIC: 0
HAZARD RATINGS:	HEALTH: 2	FLAMMABILITY: 0	REACTIVITY: 0	PROTECTION: B

PRIMARY ROUTES OF ENTRY: INHALATION, INGESTION, SKIN, AND EYES

EFFECTS OF OVEREXPOSURE:

INHALATION: No effects likely except through misting. May cause burns to entire respiratory system. Acute pulmonary adema may develop.
INGESTION: May burn mouth/throat and stomach. Damage to digestive tract including corrosive effects. Pale or blush face develops.
SKIN CONTACT: Itching and tingling sensation may be produced. Contact with liquid or mists can cause severe burns. Painful sensation will occur.
EYE CONTACT: Brief contact with liquid or mists will severely burn eyes. Intense water of the eyes will occur. Prolonged contact may cause permanent eye injury (blindness).
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None.

SECTION 4 — FIRST AID MEASURES

EMERGENCY FIRST AID PROCEDURES: Contact a physician in all cases of exposure. First aiders should provide for their own safety prior to rendering assistance.

INHALATION: Remove the victim to cool uncontaminated area. Monitor the patient for respiratory distress.

INGESTION: Rinse the mouth and throat liberally with water. Do not induce vomiting. Contact physician immediately.

SKIN CONTACT: If contacted, wash the skin with water for 15 minutes. Remove and isolate all contaminated clothes and shoes. Always clean contaminated clothing and gear prior to reuse.

EYE CONTACT: Wash affected eyes under slowly running water for 15 minutes. Contact physician immediately.

CAUTION: If unconscious – having trouble breathing – or in convulsions – DO NOT INDUCE VOMITING OR GIVE WATER.

SECTION 5 — FIRE FIGHTING MEASURES

FLASH POINT (METHOD USE): N/A

FLAMMABLE LIMITS: LEL: N/A UEL: N/A

EXTINGUISHING MEDIA: Never allow run-off to enter sewers or waterways. As appropriate for surrounding material. For massive fires use unmanned hose holder or monitor nozzle.

FIRE-FIGHTING PROCEDURES: Wear self-contained breathing apparatus/protective clothing. Fight fire from remote locations.

UNUSUAL AND EXPLOSION HAZARDS: Wear self-contained breathing apparatus/protective clothing.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

SPILLS / LEAKS: Caution – spills may cause floors to become slippery. Soak up into inert absorbent material. DO NOT use sawdust, or other organic materials. Collect for disposal in plastic recovery drum. Flush residue with plenty of water to chemical drain.

SECTION 7 — HANDLING AND STORAGE

STORAGE TEMPERATURE: **MAXIMUM:** 120.0°F (48.88°C) **MINIMUM:** 35°F (2°C)

SPECIAL PRECAUTIONS: Material should be stored in the properly sealed original container. Acid containing material should be stored separate from Alkaline materials and Cyanides. Corrosive materials MUST NOT be stored above, below or adjacent to flammables or oxidizers.

SECTION 8 — EXPOSURE CONTROLS / PERSONAL PROTECTION

RESPIRATORY: If the OSHA-PEL/ACGIH-TLV are exceeded, it is recommended that a NIOSH-approved respirator be used. Consult with your industrial hygienist for appropriate cartridge selection and use. For large spills, entry into large tanks, vessels or enclosed small spaces with inadequate ventilation, a pressure-demand, self-contained breathing apparatus is recommended.

SKIN PROTECTION: Chemically resistant aprons, boots and gloves. Recommended material of construction: PVC, rubber, neoprene. The availability of a safety shower is recommended. If clothing is contaminated, remove clothing and thoroughly wash the affected body area. Launder contaminated clothing before reuse. There are general recommendations to provide a safe level of protection for various material handling conditions. Consult with your Safety Professional/Industrial Hygienist for specific information regarding applications at your facility.

EYE PROTECTION: Safety glasses and/or splash proof goggles, face shields and the availability of an eye wash is recommended.

VENTILATION: General ventilation is recommended. Additionally, local exhaust ventilation is recommended where vapors, dusts, mists, or aerosols may be released.

SECTION 9 — PHYSICAL / CHEMICAL PROPERTIES

BOILING POINT: N/D	SPECIFIC GRAVITY (H₂O = 1): 1.475
VAPOR PRESSURE: N/D	FREEZING POINT: 30.0°F / -1.11°C
VAPOR DENSITY: 12.300 lb/gl	REACTIVITY IN WATER: N/A
SOLUBILITY IN WATER: Complete Solubility	pH: 11.40
APPEARANCE AND ODOR: Pink / Odorless	FORM: Liquid

SECTION 10 — STABILITY AND REACTIVITY

STABILITY: Stable.

HAZARDOUS POLYMERIZATION: Unknown.

INCOMPATIBILITY (MATERIALS TO AVOID): Acids and flammable liquids.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Unknown.

SECTION 11 — TOXICOLOGICAL INFORMATION

TOXICOLOGY: Toxicity studies have not been conducted on this product. However, toxicity literature surveys have been conducted on the ingredient(s) in *SECTION 2*. The results are as follows:

ACUTE ORAL TOXICITY: Unknown.

ACUTE DERMAL TOXICITY: Unknown.

ACUTE RESPIRATORY TOXICITY: Unknown.

TOXICITY HAZARD REVIEW (THR): SODIUM SILICATE: Irritant to skin, eyes and mucous membrane. Inhalation of the dust or mist can cause damage to upper respiratory tract and to lung tissues. Exposure signs such as sneezing, burning or itching in nose and throat, itching or burning of skin, pain, redness and tearing in eye exposure.

CARCINOGENICITY: **NTP:** N/L **IARC MONOGRAPH:** N/L **OSHA REGULATED:** N/R

SECTION 12 — ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: Do not allow to reach water. Water Hazard Class 2. Technical Directive Air (Styrene) Class II.

SECTION 13 — DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dilute with large amounts of water and neutralize with dilute acids. Discharge to chemical waste treatment system. Due to more restrictive waste disposal regulations, NEVER waste-treat or dispose of material until you check your appropriate local, state and federal regulations for requirements. Spills may REQUIRE notification to Federal, State, and local authorities.

SECTION 14 — TRANSPORTATION INFORMATION

D.O.T. CLASSIFICATION: Corrosive Liquid, Basic, Inorganic, N.O.S. (Contains Sodium Silicate)
HAZARD: 8 / Corrosive Material **IATA:** Corrosive Liquid, Basic, Inorganic, N.O.S.
UN/NA #: UN3266 **PKG GROUP:** III **IATA CLASS / SUB CLASS:** Corrosive / 8 / 0
IMO: Corrosive Liquid, Basic, Inorganic, N.O.S. **UN #:** UN3266 **PKG GROUP:** III
IMO CLASS / SUB CLASS: Corrosive / 8 / 0 **EXPORT LICENSE MAY BE REQUIRED TO EXPORT THIS PRODUCT**
UN #: UN3266 / 8147-1 **PKG GROUP:** III

SECTION 15 — REGULATORY INFORMATION

EXPOSURE LIMITS: No data available.

SECTION 16 — OTHER INFORMATION

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