



MATERIAL SAFETY DATA SHEET

CHROMATE INDUSTRIAL CORPORATION®
5250-A Naiman Parkway, Solon, OH 44139 • 888-567-2206 • www.chromate.com

**FOR CHEMICAL
EMERGENCY**
Call ChemTrec day/night:
1-800-424-9300

PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: DOUBLE/BUBBLE® WET SURFACE
PATCHING EPOXY (PARTS A & B) **DATE PREPARED:** February 10, 2010
PART NUMBER: 74495 **CHROMATE INDUSTRIAL CORPORATION**
5250-A Naiman Parkway, Solon, OH 44139 • (888) 567-2206

PART A **PART B**
PRODUCT TYPE: EPOXY **PRODUCT TYPE:** AMINE
HAZARD RATING: HEALTH: 2 FIRE: 1 REACTIVITY: 0 **HAZARD RATING:** HEALTH: 3 FIRE: 1 REACTIVITY: 0
PPI: N/L PPI: N/L

PART A — SECTION 2 — INGREDIENT / HAZARD INFORMATION

HAZARDOUS INGREDIENTS	CAS NUMBER
EPOXY RESIN	25068-38-6
CRYSTALLINE SILICA	TRADE SECRET
TRADE SECRET	TRADE SECRET
TALC	TRADE SECRET
ALUMINUM FLAKE	7429-90-5
TITANIUM DIOXIDE	TRADE SECRET

*** ALL Ingredients in this product are listed in the T.S.C.A. Inventory

SECTION 3 — HAZARDS IDENTIFICATION

EYE CONTACT: Product is moderately irritating to the eyes.

SKIN CONTACT: Product is moderately irritating to the skin. May cause skin sensitization. Skin sensitization may be evidenced by rashes, especially hives.

INHALATION: Because of its low volatility this product is not likely to be an inhalation hazard.

INGESTION: This product is considered to have a low order of acute oral toxicity.

AGGRAVATED MEDICAL CONDITIONS: Pre-existing skin and eye disorders may be aggravated by exposure to this product.
Pre-existing skin or lung allergies may increase the chance of developing increased allergy symptoms from exposure to this product.

HEALTH HAZARD INFORMATION

HAZARDOUS FILLER WARNING FOR SILICA: This formula contains hazardous fillers which are not hazardous in a wet or encapsulated state. However, if a formula containing hazardous filler is reduced to a respirable fraction by grinding or putting into an airborne powder, the powder is considered hazardous material. IARC classification for SILICA powder is GROUP 1 (CARCINOGENIC TO HUMANS.)

SECTION 4 — FIRST AID MEASURES

EYE CONTACT: Flush eyes with plenty of water for 15 minutes while holding eyelids open. *GET IMMEDIATE MEDICAL ATTENTION.*

SKIN CONTACT: Remove contaminated clothing and wipe excess from skin. Flush skin with water. Follow by washing with soap and water. If irritation occurs, get medical attention. Launder contaminated clothing. Destroy leather articles including shoes.

INHALATION: Remove person to fresh air and provide oxygen if breathing is difficult. *GET MEDICAL ATTENTION.*

INGESTION: *DO NOT INDUCE VOMITING.* GET MEDICAL ADVICE.

N/A — NOT APPLICABLE
N/L — NOT LISTED

N/D — NOT DETERMINED

N/E — NONE ESTABLISHED

N/R — NOT REGULATED

SECTION 5 — FIRE-FIGHTING MEASURES**FLAMMABILITY CLASS:** IIIB**FLASH RANGE:** N/APENSKEY-MARTENS CLOSED CUP ASTM D 93
>200°F**EXPLOSIVE RANGE:** N/A**FIRE-FIGHTING MEASURES:**

Water fog, dry chemical, foam, carbon dioxide.

Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots), including a positive-pressure, NIOSH-approved, self-contained, breathing apparatus (SCBA). Cool fire-exposed containers with water.

SECTION 6 — ACCIDENTAL RELEASE MEASURES**SPILLS:** Absorb liquid material and place in container for disposal. Comply with local, state and federal EPA Regulations.**SECTION 7 – HANDLING AND STORAGE****STORAGE CONDITIONS:** Store in a cool, dry place. Keep away from open flames and high temperatures.**SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION****OCCUPATIONAL EXPOSURE LIMITS**

	ACGIH TLV	ACGIH TLV-C	ACGIH STEL	OSHA STEL	OSHA PEL
EPOXY RESIN	N/E	N/E	N/E	N/E	N/E
CRYSTALLINE SILICA	0.0250 mg/m ³	N/E	N/E	N/E	0.1000 mg/m ³
TRADE SECRET	N/E	N/E	N/E	N/E	N/E
TALC	2.0000 mg/m ³	N/E	N/E	N/E	2.0000 mg/m ³
ALUMINUM FLAKE	N/E	N/E	N/E	N/E	100.0000 ppm
TITANIUM DIOXIDE	10.0000 mg/m ³	N/E	N/E	N/E	15.0000 mg/m ³

PERSONAL PROTECTIVE EQUIPMENT: Use with adequate ventilation. Normal use of this product does not require a respirator. Wear a respirator approved by NIOSH/MSHA whenever exposed to fumes or vapors. Comply with OSHA 1910.134 (CFR). Local exhaust is recommended. Use chemical resistant protective gloves (nitrile) to protect the skin. Use safety glasses or safety goggles to protect the eyes. Eye wash station and safety shower should be available for emergency use.**EXPOSURE LIMITS (PARTICULATES):** The EXPOSURE LIMIT chart (SECTION 8) will contain the ACGIH LIMIT for TOTAL PARTICULATES, not otherwise classified of 10 mg/m³, unless a specific limit has been established.**SECTION 9 – PHYSICAL / CHEMICAL PROPERTIES****FORM:** Liquid**ODOR:** Mild**VAPOR PRESSURE (mmHg):** N/A**EVAPORATION RATE:** N/A**SPECIFIC GRAVITY:** 1.44**APPEARANCE/COLOR:** Gray**BOILING RANGE:** N/A**MELTING POINT:** N/A**% VOLATILE:** N/A**SECTION 10 – STABILITY AND REACTIVITY****STABILITY:** Stable.**HAZARDOUS POLYMERIZATION:** Will not occur.**REACTIVITY****INCOMPATIBILITY:** Oxidizing agents, strong mineral acids, strong lewis acids, bases, mercaptans, amines.**CONDITIONS TO AVOID:** High temperatures.**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide, carbon dioxide, aldehydes, acids.N/A — NOT APPLICABLE
N/L — NOT LISTED

N/D — NOT DETERMINED

N/E — NONE ESTABLISHED

N/R — NOT REGULATED

SECTION 11 – TOXICOLOGICAL INFORMATION

LETHAL DOSE INFORMATION (PPM) **ORAL** **SKIN** **INHALE** **LC₅₀**

TOXICOLOGICAL INFORMATION

CARCINOGENICITY (EPOXY RESIN COMPONENT): Recent 2-year bioassays in rats and mice exposed by the dermal route to the DIGLYCIDYL ETHER OF BISPHENOL A (BADGE) yielded no evidence of carcinogenicity to the skin or any other organs. This study clarifies prior equivocal results from a 2-year mouse skin-painting study, which were suggestive, but not conclusive, for weak carcinogenicity activity.

NOTE: BADGE is a component in all BPA/ECH-based liquid epoxy resins.

The International Agency for Research on Cancer (IARC) concluded that DIGLYCIDYL ETHER OF BISPHENOL A is not classifiable as a carcinogen (IARC GROUP 3), that is human and animal evidence of carcinogenicity is inadequate.

MUTAGENICITY: Resins of this type, liquid resins based on DIGLYCIDYL ETHER OF BISPHENOL A, have proven to be inactive when tested by in vivo mutagenicity assays. These resins have shown activity in in vitro microbial mutagenicity screening and have produced chromosomal aberrations in cultured rat liver cells. The significance of these tests to man is unknown.

SECTION 12 – ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: No information is available.

SECTION 13 – DISPOSAL CONSIDERATIONS

RCRA CONSIDERATIONS: Place in an appropriate disposal facility in compliance with federal and local regulations.

SECTION 14 – TRANSPORT INFORMATION

UN NUMBER: N/A **UN PACK GROUP:** N/A
UN CLASS: N/A **ICAO/IATA CLASS:** N/R
IMDG CLASS: N/R **SHIPPING NAME:** PLASTIC LIQUID, NOS
ADR/RID CLASS: N/R **DOT HAZARD CLASS:** N/L

PRODUCT PACKING CONFORMS TO 49 CFR 173.4 REQUIREMENTS FOR “SMALL QUANTITY EXCEPTIONS”.

SECTION 15 – REGULATORY INFORMATION

SARA TITLE III SECTION 313: This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right to Know Act of 1986 and of 40 CFR 372:

CHEMICAL NAME	CAS NUMBER	%
ALUMINUM FLAKE	7429-90-5	0.5 - 1.5

TSCA STATUS: All ingredients contained in this product are on the TSCA Inventory.

INVENTORY STATUS: All component(s) of this product have been verified to be listed on the following inventories:
 UNITED STATES (TSCA) CANADA (DSL)
 EUROPE (EU) AUSTRALIA (AICS)
 JAPAN KOREA
 CHINA PHILIPPINES (PICCS)

SECTION 16 – OTHER INFORMATION

DISCLAIMER:

Although the information and recommendations set forth herein (hereinafter known as, “Information”) are presented in good faith and believed to be correct, as of the date hereof, Chromate Industrial Corporation (hereinafter known as, “CIC”) makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will CIC be responsible for damages of any nature whatsoever resulting from the use of, or reliance upon, information. No representations, or warranties, either expressed or implied, or merchantability, fitness for a particular purpose of any nature are made hereunder with respect to information or the product to which information refers.

N/A — NOT APPLICABLE N/D — NOT DETERMINED N/E — NONE ESTABLISHED N/R — NOT REGULATED
 N/L — NOT LISTED

PART B — SECTION 2 — INGREDIENT / HAZARD INFORMATION

HAZARDOUS INGREDIENTS	CAS NUMBER
TRADE SECRET	TRADE SECRET
AMINOETHYL PIPERAZINE	140-31-8
TRADE SECRET	TRADE SECRET
4,4 ISOPROPYLIDENEDIPHENOL	80-05-7
NONYL PHENOL	84852-15-3
FUMED SILICA	TRADE SECRET

*** ALL Ingredients in this product are listed in the T.S.C.A. Inventory

SECTION 3 — HAZARDS IDENTIFICATION

EYE CONTACT: Severe eye irritant. Corrosive to eyes.
SKIN CONTACT: Severe skin irritant. Corrosive to the skin. May cause skin sensitization. May be toxic if absorbed through the skin.
INHALATION: Severe respiratory tract irritant. Repeated exposure may cause lung damage.
INGESTION: Not expected to be a relevant route of exposure, however, will cause burns to mouth, throat and severe gastric disturbances. May be moderately toxic if swallowed.

OTHER HEALTH HAZARD INFORMATION: Repeated and/or prolonged contact may result in adverse respiratory effects, (i.e. cough or shortness or breath), adverse eye effects, (i.e. corneal damage), adverse skin effects, (i.e. a rash or corrosion to the skin).

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Asthma, chronic respiratory disease, eye disease, skin disorders and allergies.

CARCINOGENICITY: This product does not contain carcinogens as listed by Occupational and Safety Health Administration (OSHA), National Toxicology Program (NTP) and International Agency for Research on Cancer (IARC).

SECTION 4 — FIRST AID MEASURES

EYE CONTACT: Flush thoroughly with water for at least 15 minutes, while lifting upper and lower eye lids.
GET IMMEDIATE MEDICAL ATTENTION.

SKIN CONTACT: Flush with water for at least 15 minutes. Get medical attention if skin becomes irritated.

INHALATION: Remove person to fresh air and call a physician. Prevent aspiration of vomit by turning victim's head to the side.

INGESTION: *DO NOT INDUCE VOMITING.* Administer 3-4 glasses of milk or water. *GET IMMEDIATE MEDICAL ATTENTION.*
 Nothing by mouth if victim is drowsy, convulsing or unconscious.

SECTION 5 — FIRE-FIGHTING MEASURES

FLAMMABILITY CLASS: III B

FLASH RANGE: N/A
 Pensky-Martens Closed Cup ASTM D 93
 >200°F

EXPLOSIVE RANGE: N/A

FIRE-FIGHTING MEASURES: Water fog, dry chemical, foam, carbon dioxide.
 Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots), including a positive-pressure, NIOSH-approved, self-contained, breathing apparatus (SCBA). Cool fire-exposed containers with water.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

SPILLS: Absorb liquid material and place in container for disposal. Comply with local, state and federal EPA Regulations.

SECTION 7 — HANDLING AND STORAGE

STORAGE CONDITIONS: Store in a cool, dry place. Keep away from open flames and high temperatures.

N/A — NOT APPLICABLE
 N/L — NOT LISTED

N/D — NOT DETERMINED

N/E — NONE ESTABLISHED

N/R — NOT REGULATED

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS

	ACGIH TLV	ACGIH TLV-C	ACGIH STEL	OSHA STEL	OSHA PEL
TRADE SECRET	N/E	N/E	N/E	N/E	N/E
AMINOETHYL PIPERAZINE	N/E	N/E	N/E	N/E	N/E
TRADE SECRET	N/E	N/E	N/E	N/E	N/E
4,4 ISOPROPYLIDENEDIPHENOL	N/E	N/E	N/E	N/E	N/E
NONYL PHENOL	N/E	N/E	N/E	N/E	N/E
FUMED SILICA	3.0000 mg/m ³	N/E	N/E	N/E	0.8000 mg/m ³

PERSONAL PROTECTIVE EQUIPMENT: Use with adequate ventilation. Normal use of this product does not require a respirator. Wear a respirator approved by NIOSH/MSHA whenever exposed to fumes or vapors. Comply with OSHA 1910.134 (CFR). Local exhaust is recommended. Use chemical resistant protective gloves (nitrile) to protect the skin. Use safety glasses or safety goggles to protect the eyes. Eye wash station and safety shower should be available for emergency use.

EXPOSURE LIMITS (PARTICULATES): The EXPOSURE LIMIT chart (SECTION 8) will contain the ACGIH LIMIT for TOTAL PARTICULATES, not otherwise classified of 10 mg/m³, unless a specific limit has been established.

SECTION 9 – PHYSICAL / CHEMICAL PROPERTIES

FORM: Liquid	APPEARANCE/COLOR: Amber
ODOR: Amine	BOILING RANGE: N/A
VAPOR PRESSURE (mmHg): N/A	MELTING POINT: N/A
EVAPORATION RATE: N/A	% VOLATILE: N/A
SPECIFIC GRAVITY: 1.17	

SECTION 10 – STABILITY AND REACTIVITY

STABILITY: Stable.
HAZARDOUS POLYMERIZATION: Will not occur.

REACTIVITY
INCOMPATIBILITY: Oxidizing agents, mineral and organic acids, water.
CONDITIONS TO AVOID: High temperatures.
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, nitrogen oxides, traces of Phenol.

SECTION 11 – TOXICOLOGICAL INFORMATION

LETHAL DOSE INFORMATION (PPM)	ORAL	SKIN	INHALE	LC ₅₀
TOXICOLOGICAL INFORMATION:	No information is available			

SECTION 12 – ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: No information is available

SECTION 13 – DISPOSAL CONSIDERATIONS

RCRA CONSIDERATIONS: Place in an appropriate disposal facility in compliance with federal and local regulations.

SECTION 14 – TRANSPORT INFORMATION

UN NUMBER: 1760
 UN CLASS: 8
 IMDG CLASS: 8
 ADR/RID CLASS: 8
 TECHNICAL NAME: N/L

UN PACK GROUP: III
 ICAO/IATA CLASS: 8
 SHIPPING NAME: CORROSIVE LIQUID, NOS (Polyalkylamines)
 DOT HAZARD CLASS: N/L

PRODUCT PACKING CONFORMS TO 49 CFR 173.4 REQUIREMENTS FOR “SMALL QUANTITY EXCEPTIONS”.

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CHEMICAL NAME	CAS NUMBER	%
4,4-ISOPROPYLDENEDIPHENOL	80-05-7	10 - 15

TSCA STATUS: All ingredients contained in this product are on the TSCA Inventory.

INVENTORY STATUS: All component(s) of this product have been verified to be listed on the following inventories:

UNITED STATES
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 CHINA
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