



MATERIAL SAFETY DATA SHEET

CHROMATE INDUSTRIAL CORPORATION®
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**FOR CHEMICAL
EMERGENCY**

Call ChemTrec day/night:
1-800-424-9300

PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: DOUBLE/BUBBLE® HIGH PEEL STRENGTH EPOXY (PARTS A & B)
PART NUMBER: 74496
DATE PREPARED: February 9, 2010
CHROMATE INDUSTRIAL CORPORATION
5250-A Naiman Parkway, Solon, OH 44139 • (888) 567-2206

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

PART B
PRODUCT TYPE: POLYAMIDE
HAZARD RATING: HEALTH: 3 FIRE: 1 REACTIVITY: 0
PPI: N/L

PART A — SECTION 2 — INGREDIENT / HAZARD INFORMATION

| HAZARDOUS INGREDIENTS | CAS NUMBER |
|-----------------------|--------------|
| EPOXY RESIN | 25068-38-6 |
| KAOLIN | TRADE SECRET |
| FUMED SILICA | 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 INFORMATION

OTHER HEALTH INFORMATION (EPOXY RESIN)

CHRONIC STUDIES: Recent 2 year bioassays in mice exposed by the dermal route to epoxy resin, the DIGLYCIDYL ETHER OF BISPHENOL A (DGEBA), or to resins predominantly of DGEBA have yielded very limited evidence of weak carcinogenicity. DGEBA is a component of the resin in this product. The authors of this work concluded that the renal tumor evidence with this resin "was of no biological significance" and that the resin "is not a systemic carcinogen when applied to the dorsal skin CF 1 mice." IARC concluded that DGEBA was not classifiable as a carcinogen (IARC GROUP 3), based on the following: HUMAN AND ANIMAL EVIDENCE BOTH INADEQUATE.

MUTAGENICITY: Both the resin and DGEBA, have proven to be inactive when tested by in vivo mutagenicity assays. They have both shown activity by the in vitro microbial mutagenicity screening and have both produced chromosomal aberrations in cultured rat liver cells. The significance of this information to man is unknown.

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.

Water or foam may cause frothing. Use water to cool fire-exposed containers. If a leak or spill has not ignited, use water spray to disperse the vapors and provide protection to the people attempting to stop the leak. Use full turnout gear including self-contained breathing apparatus (SCBA).

Fire-exposed containers may build pressure and burst.

SECTION 6 — ACCIDENTAL RELEASE MEASURES**SPILLS:** Shut off all ignition sources and dike spill to contain and prevent entry into sewers or water sources. Absorb spilled material and place in closed container for disposal. Controlled incineration. Handle in compliance with local, state and federal Environmental Protection Agency 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 |
| KAOLIN | 10.0000 mg/m ³ | N/E | N/E | N/E | 15.0000 mg/m ³ |
| FUMED SILICA | 10.0000 mg/m ³ | N/E | N/E | N/E | N/E |

PERSONAL PROTECTIVE EQUIPMENT: In the absence of proper environmental control or ventilation, wear a respirator approved by NIOSH/MSHA whenever exposed to fumes or vapors. Comply with OSHA 1910.134 (CFR). Self-contained breathing apparatus in high concentrations. Local exhaust is recommended. Use chemical resistant protective gloves, chemical splash goggles, chemical resistant protective clothing to minimize exposure, chemical splash apron, full face shield. Eye wash station and safety shower should be available for emergency use.**SECTION 9 – PHYSICAL / CHEMICAL PROPERTIES****FORM:** Liquid**VAPOR PRESSURE (mmHg):** N/A**EVAPORATION RATE:** N/A**SPECIFIC GRAVITY:** 1.35**VOC:** 1.303 gm/liter***OTHER INFORMATION:**

*VOC CONTENT WAS TESTED VIA EPA METHOD 24

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 | LC ₅₀ |
|-------------------------------|------|------|--------|------------------|
|-------------------------------|------|------|--------|------------------|

TOXICOLOGICAL INFORMATION: No information is available.

SECTION 12 – ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: No information is available.

SECTION 13 – DISPOSAL CONSIDERATIONS

RCRA CONSIDERATIONS: This product, if disposed of in the purchased form, is not considered RCRA hazardous.

SECTION 14 – TRANSPORT INFORMATION

UN NUMBER: N/L

UN CLASS: N/L

IMDG CLASS: N/R

ADR/RID CLASS: N/R

TECHNICAL NAME: N/L

UN PACK GROUP: N/L

ICAO/IATA CLASS: N/R

SHIPPING NAME: PLASTIC LIQUID, NOS

DOT HAZARD CLASS: N/L

SECTION 15 – REGULATORY INFORMATION

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

INVENTORY STATUS: All component(s) of this product have been found on the following inventories:

UNITED STATES

All the component(s) of this product have NOT YET been identified on the following inventories:

EUROPE

CANADA

AUSTRALIA

JAPAN

KOREA

CHINA

PHILIPPINES

SCHEDULE B NUMBER: 3506.91.0000 is the Schedule B Export Classification Number.

PROPOSITION 65 INFORMATION: 74496 PART A contains chemicals known to the State of California to cause cancer/reproductive toxicity.

106-89-8

EPICHLOROHYDRIN

<1 ppm

122-60-1

PHENYL GLYCIDYL ETHER

<6 ppm

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.

PART B — SECTION 2 — INGREDIENT / HAZARD INFORMATION

| HAZARDOUS INGREDIENTS | CAS NUMBER |
|-----------------------|--------------|
| TRADE SECRET | TRADE SECRET |
| KAOLIN | TRADE SECRET |
| TRADE SECRET | TRADE SECRET |
| FUMED SILICA | TRADE SECRET |
| TERTIARY AMINE | TRADE SECRET |
| TITANIUM DIOXIDE | TRADE SECRET |
| CARBON BLACK | TRADE SECRET |

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

SECTION 3 — HAZARDS IDENTIFICATION

- EYE CONTACT:** Corrosive to the eyes and may cause severe damage including blindness. Vapors may be irritating.
- SKIN CONTACT:** Corrosive to the skin. May cause sensitization. Skin sensitization may be evidenced by rashes, especially hives.
- INHALATION:** Vapors may be corrosive to the upper respiratory tract. Repeated or prolonged exposure can result in lung damage. Lung damage may be evidenced by shortness of breath, especially on exertion, and may be accompanied by a chronic cough.
- INGESTION:** Corrosive and may cause severe and permanent damage to mouth, throat and stomach.

AGGRAVATED MEDICAL CONDITIONS: Pre-existing eye, skin and respiratory disorders may be aggravated by exposure to this product.

HEALTH HAZARD INFORMATION

HAZARDOUS FILLER WARNING FOR CARBON BLACK: This formula contains hazardous fillers which are not hazardous in a wet or encapsulated state. However, if a formula containing a hazardous filler is reduced to a respirable fraction by grinding or putting into an airborne powder, the powder is considered a hazardous material. IARC classification for Carbon Black powder is GROUP 2B (Possibly Carcinogenic to Humans).

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:** Wipe excess from skin and flush with water for at least 15 minutes. *GET MEDICAL ATTENTION.* Launder clothing, discard leather clothing.
- INHALATION:** Remove person to fresh air and provide oxygen if breathing is difficult. Giving artificial respiration if not breathing. *GET MEDICAL ATTENTION.*
- 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: IIIB

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.
Water or foam may cause frothing. Use water to cool fire-exposed containers. If a leak or spill has not ignited, use water spray to disperse the vapors and provide protection to the people attempting to stop the leak. Use full turnout gear including self-contained breathing apparatus (SCBA).
Fire-exposed containers may build pressure and burst.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

SPILLS: Shut off all ignition sources and dike spill to contain and prevent entry into sewers or water sources. Absorb spilled material and place in closed container for disposal. Controlled incineration. Handle in compliance with local, state and federal Environmental Protection Agency 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 |
|------------------|---------------------------|-------------|------------|-----------|---------------------------|
| TRADE SECRET | N/E | N/E | N/E | N/E | N/E |
| KAOLIN | 10.0000 mg/m ³ | N/E | N/E | N/E | 15.0000 mg/m ³ |
| TRADE SECRET | N/E | N/E | N/E | N/E | N/E |
| FUMED SILICA | 10.0000 mg/m ³ | N/E | N/E | N/E | N/E |
| TERTIARY AMINE | N/E | N/E | N/E | N/E | N/E |
| TITANIUM DIOXIDE | 10.0000 mg/m ³ | N/E | N/E | N/E | 15.0000 mg/m ³ |
| CARBON BLACK | 3.5000 mg/m ³ | N/E | N/E | N/E | N/E |

PERSONAL PROTECTIVE EQUIPMENT: In the absence of proper environmental control or ventilation, wear a respirator approved by NIOSH/MSHA whenever exposed to fumes or vapors. Comply with OSHA 1910.134 (CFR). Self-contained breathing apparatus in high concentrations. Local exhaust is recommended. Use chemical resistant protective gloves, chemical splash goggles, chemical resistant protective clothing to minimize exposure, chemical splash apron, full face shield. Eye wash station and safety shower should be available for emergency use.

SECTION 9 – PHYSICAL / CHEMICAL PROPERTIES

FORM: Liquid
VAPOR PRESSURE (mmHg): N/A
EVAPORATION RATE: N/A
SPECIFIC GRAVITY: 1.23
BOILING RANGE: N/A
MELTING POINT: N/A
% VOLATILE: N/A
VOC: 103.3 gm/liter*

OTHER INFORMATION: *VOC CONTENT WAS TESTED VIA EPA METHOD 24

SECTION 10 – STABILITY AND REACTIVITY

STABILITY: Stable.
HAZARDOUS POLYMERIZATION: Will not occur.
REACTIVITY
INCOMPATIBILITY: Oxidizing agents, cleaning solutions.
CONDITIONS TO AVOID: High temperatures.
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, nitrogen oxides, ammonia.

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

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

N/D — NOT DETERMINED

N/E — NONE ESTABLISHED

N/R — NOT REGULATED

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/L
UN CLASS: N/L
IMDG CLASS: N/R
ADR/RID CLASS: N/R
TECHNICAL NAME: N/L

UN PACK GROUP: N/L
ICAO/IATA CLASS: N/R
SHIPPING NAME: PLASTIC LIQUID, NOS
DOT HAZARD CLASS: N/L

SECTION 15 – REGULATORY INFORMATION

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

INVENTORY STATUS: All component(s) of this product have been found on the following inventories:
 UNITED STATES

All the component(s) of this product have NOT YET been identified on the following inventories:

EUROPE
 CANADA
 AUSTRALIA
 JAPAN
 KOREA
 CHINA
 PHILIPPINES

SCHEDULE B NUMBER: 3506.91.0000 is the Schedule B Export Classification Number.

PROPOSITION 65 INFORMATION: 74496 PART B does not contain any chemical known to the State of California to cause cancer/reproductive toxicity.

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.