



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® REGULAR
SETTING EPOXY (PARTS A & B)
PART NUMBER: 74493

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: AMINE ADDUCT
HAZARD RATING: HEALTH: 2 FIRE: 1 REACTIVITY: 0
PPI: N/L

PART A — SECTION 2 — INGREDIENT / HAZARD INFORMATION

HAZARDOUS INGREDIENTS	CAS NUMBER
EPOXY RESIN	25068-38-6
TRADE SECRET	TRADE SECRET

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

SECTION 3 — HAZARDS IDENTIFICATION

EYE CONTACT: Product may be severely irritating to the eyes.

SKIN CONTACT: Product may be moderately irritating to the skin. Repeated or prolonged contact may result in an allergic skin reaction (sensitization) causing itching, burning, redness and swelling. Product may be slightly toxic by skin contact.

INHALATION: Vapors may irritate the nose, throat and respiratory tract.

INGESTION: Expected to be slightly toxic by this route.

HEALTH HAZARD 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/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: 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
TRADE SECRET	N/E	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: 1.18
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.

PART B — SECTION 2 — INGREDIENT / HAZARD INFORMATION

HAZARDOUS INGREDIENTS	CAS NUMBER
NONYL PHENOL	84852-15-3
4,4 ISOPROPYLIDENEDIPHENOL	80-05-7

*** 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. May be toxic if absorbed through the skin.
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. May cause respiratory sensitization in susceptible individuals. May be moderately toxic if inhaled.
INGESTION:	Corrosive and may cause severe and permanent damage to mouth, throat and stomach. May be moderately toxic, if swallowed.

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

SUPPLEMENTAL HEALTH INFORMATION: Although the significance is unknown, a component of this product has been found to increase the frequency of sister chromatid exchange. It was also found to be positive in the unscheduled DNA mutagenicity assay. Microbial tests and in vitro gene mutation assays were negative. A life-time skin painting study did not result in carcinogenicity. Histopathological effects of the kidney, liver, spleen and adrenals were observed in two rat life-time feeding studies. In a reproductive study on rats, BISPENOL A (80-05-7) caused paternal toxicity, reproductive, kidney and liver effects and fetotoxicity at doses of 0.5% and 1.0% of the diet. No significant treatment related effects were seen at 0.25% of the diet. In other reproductive studies, BISPENOL A produced fetotoxicity in mice at maternally toxic doses, but not in rats.

SECTION 4 — FIRST AID MEASURES

EYE CONTACT:	Flush thoroughly with water for at least 15 minutes, while lifting upper and lower eye lids. <i>GET IMMEDIATE MEDICAL ATTENTION.</i>
SKIN CONTACT:	Wipe excess from skin and flush with water for at least 15 minutes. <i>GET MEDICAL ATTENTION.</i> Launder clothing, discard leather clothing.
INHALATION:	Remove person to fresh air and provide oxygen if breathing is difficult. Giving artificial respiration if not breathing. <i>GET MEDICAL ATTENTION.</i>
INGESTION:	<i>DO NOT INDUCE VOMITING.</i> Administer 3-4 glasses of milk or water. <i>GET IMMEDIATE MEDICAL ATTENTION.</i> 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: 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
NONYL PHENOL	N/E	N/E	N/E	N/E	N/E
4,4 ISOPROPYLIDENEDIPHENOL	N/E	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.

EXPOSURE LIMITS: DOW Chemical has established an exposure guideline for 4,4 ISOPROPYLIDENEDIPHENOL in granular form of 5mg/m³.

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: 0.97	

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

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
CANADA (DSL)
EUROPE

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

JAPAN
AUSTRALIA
KOREA
CHINA
PHILIPPINES

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

PROPOSITION 65 INFORMATION: 74493 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.