

**Product Name:** DYNABOND Two-Part Quick Set Catalyst

SDS Version No.: 1.0  
Issue Date: January 2022  
Revision Date: N/A

## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** DYNABOND Two-Part Quick Set Catalyst

**PRODUCT DESCRIPTION:** Catalyst

**PRODUCT USAGE:** Catalyst used with adhesive to bond screen printing mesh to frames

### SUPPLIER

NBC Meshtec Americas Inc.  
512 Kingsland Drive  
Batavia, IL 60510

**Website:** nbcmeshtec.com

**Phone:** 1 (800) 235-5056

**Fax:** 1 (630) 293-5647

### 24/7 EMERGENCY PHONE CONTACT

1 (800) 535-5053 Infotrac United States and Canada

+1 (352) 323-3500 Infotrac International (Call collect)

## 2. HAZARDS IDENTIFICATION

### GHS CLASSIFICATIONS

#### Health:

Acute Toxicity (Inhalation), Category 4

Skin Irritation, Category 2

Eye Irritation, Category 2B

Respiratory Sensitization, Category 1

Skin Sensitization, Category 1

Target Organ Toxicity (Single exposure), Category 3

Target Organ Toxicity (Repeated exposure), Category 1

### GHS LABEL



GHS07



GHS08

**SIGNAL WORD:** DANGER

### HAZARD STATEMENTS

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H332: Harmful if inhaled.

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335: May cause respiratory irritation.

H372: Causes damage to organs through prolonged or repeated exposure.

H320: Causes eye irritation.

### PRECAUTIONARY STATEMENT(S)

#### Prevention:

P264: Wash skin thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P260: Do not breathe dust/fume/gas/mist/vapors/spray.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P272: Contaminated work clothing should not be allowed out of the workplace.

P271: Use only outdoors or in a well-ventilated area.

P284: [In case of inadequate ventilation] wear respiratory protection.

**Response:**

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P362: Take off contaminated clothing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice/attention.

P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER/doctor/physician.

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P312: Call a POISON CENTER/doctor/physician if you feel unwell.

P314: Get medical advice/attention if you feel unwell.

P321: Specific treatment (see FIRST AID MEASURES in this document).

**Storage:**

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P405: Store locked up.

**Disposal:**

P501: Dispose of contents/container in accordance with applicable federal/state/local regulations.

### 3. COMPOSITION INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Polymeric Isocyanates	40 - 65	9016-87-9
Methylene Bisphenyl Isocyanate	30 - 45	101-68-8
Diphenylmethane-2,4'-di-isocyanate	2 - 9	5873-54-1
2,2-Diphenylmethane Diisocyanate	0.1 – 1.2	2536-05-2

### 4. FIRST AID MEASURES

**EYES:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**SKIN:** Wash off with soap and plenty of water. Consult a physician.

**INGESTION:** DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**INHALATION:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

### 5. FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

**HAZARDOUS COMBUSTION PRODUCTS:** N/A

**FIRE FIGHTING EQUIPMENT:** Wear self-contained breathing apparatus for firefighting if necessary.

**HAZARDOUS DECOMPOSITION PRODUCTS:** N/A

### 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal. Clean surface thoroughly to remove residual contamination.

**LARGE SPILL:** Wear suitable protective equipment. Contain spill. Soak up with absorbent material and transfer to a container for disposal according to local/state/federal regulations.

### 7. HANDLING AND STORAGE

**HANDLING:** Avoid contact with eyes, skin, and clothing. Avoid inhalation of vapors. Wash thoroughly after handling.

**STORAGE:** Keep container tightly closed.

**SHELF LIFE:** 24 months

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)				
EXPOSURE LIMITS				
Chemical Name	Type		ppm	mg/m <sup>3</sup>
	Methylene Bisphenyl Isocyanate	ACGIH TLV	TWA	0.005

**ENGINEERING CONTROLS:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US).

**SKIN:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**RESPIRATORY:** Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US).

**PROTECTIVE CLOTHING:** Apron recommended.

**WORK HYGIENIC PRACTICES:** Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when handling this material: (1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored. (2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the restroom. (3) Wash exposed skin promptly to remove accidental splashes of contact with this material.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Liquid

**ODOR:** Musty

**COLOR:** Brown

**pH:** N/A

**PERCENT VOLATILE:** 0

**FLASH POINT AND METHOD:** 198.8°C (390°F)

**FLAMMABLE LIMITS:** N/A

**AUTOIGNITION TEMPERATURE:** N/A

**VAPOR PRESSURE:** N/A

**VAPOR DENSITY:** N/A

**BOILING POINT:** N/A

**FREEZING POINT:** N/A

**POUR POINT:** N/A

**THERMAL DECOMPOSITION:** N/A

**SOLUBILITY IN WATER:** Insoluble

**EVAPORATION RATE:** N/A

**SPECIFIC GRAVITY:** 1.253

**(VOC):** 0 g/L

## 10. STABILITY AND REACTIVITY

**REACTIVITY:** Yes

**STABILITY:** Stable under recommended storage conditions.

**CONDITIONS TO AVOID:** Exposure to air. Exposure to moisture.

**INCOMPATIBLE MATERIALS:** Water, amines, strong alkalis, alcohols

## 11. TOXICOLOGICAL INFORMATION

### ACUTE TOXICITY

Chemical Name	ORAL LD <sub>50</sub>	INHALATION LC <sub>50</sub>
Polymeric Isocyanates		0.49 mg/L [Rat] 4 h
Methylene Bisphenyl Isocyanate	9200 mg/kg [Rat]	> 2.24 mg/L [rat] 1 h

**DERMAL LD<sub>50</sub>:** Not yet determined for this product

**ORAL LD<sub>50</sub>:** Not yet determined for this product

**INHALATION LC<sub>50</sub>:** Not yet determined for this product

**SERIOUS EYE DAMAGE/IRRITATION:** CAS # 101-68-8 Serious eye damage/eye irritation

Eyes - Rabbit

Result: Moderate eye irritation

**RESPIRATORY OR SKIN SENSITISATION:** CAS # 101-68-8 Respiratory or skin sensitization

In vivo assay - Guinea pig

Result: May cause sensitization by inhalation.

In vivo assay - Mouse

Result: May cause sensitization by skin contact.

**GERM CELL MUTAGENICITY:** CAS # 101-68-8 Laboratory experiments have shown mutagenic effects.

Ames test *S. typhimurium*

Result: negative

Mutagenicity (micronucleus test) Rat - male

Result: negative

### CARCINOGENICITY

**IARC:** CAS # 9016-87-9 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Isocyanic acid, polymethylenepolyphenylene ester)

CAS # 101-68-8 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Diphenylmethane-4,4'-diisocyanate)

**NTP:** Not listed

**OSHA:** Not listed

**REPRODUCTIVE TOXICITY:** CAS # 101-68-8

Reproductive toxicity - Rat – Inhalation

Maternal Effects: Other effects.

Specific Developmental Abnormalities: Musculoskeletal system.

## 12. ECOLOGICAL INFORMATION

**BIOACCUMULATION/ACCUMULATION:** N/A

### AQUATIC TOXICITY (ACUTE)

**Notes:** CAS # 101-68-8

Toxicity to daphnia and other aquatic invertebrates EC50 - *Daphnia magna* (Water flea) - 0.35 mg/l - 24 h

## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**EMPTY CONTAINER:** Dispose of as unused product.

## 14. TRANSPORT INFORMATION

### DOT (DEPARTMENT OF TRANSPORTATION)

**PROPER SHIPPING NAME:** Other Regulated Substances, Liquid, n.o.s. (contains 4,4'- diphenylmethane diisocyanate (MDI))

**PRIMARY HAZARD CLASS/DIVISION:** 9

**UN/NA NUMBER:** 3082

**PACKING GROUP:** III

**LABEL:** 9

### AIR (ICAO/IATA)

**SHIPPING NAME:** Other Regulated Substances, Liquid, n.o.s. (contains 4,4'- diphenylmethane diisocyanate (MDI))

**UN/NA NUMBER:** 3082

**PRIMARY HAZARD CLASS/DIVISION:** 9

**PACKING GROUP:** III

**LABEL:** 9

## 15. REGULATORY INFORMATION

### UNITED STATES

#### SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

**311/312 HEALTH HAZARDS:** ACUTE HEALTH HAZARD, CHRONIC HEALTH HAZARD

**313 REPORTABLE INGREDIENTS:** Polymeric Diphenylmethane Diisocyanate (pMDI), 4,4-Diphenylmethane Diisocyanate (MDI)

#### EPCRA SECTION 313 SUPPLIER NOTIFICATION

Chemical Name	Wt. %	CAS
Polymeric Isocyanates	40 - 65	9016-87-9
Methylene Bisphenyl Isocyanate	30 - 45	101-68-8

#### 302/304 EMERGENCY PLANNING

**EMERGENCY PLAN:** None

#### CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

**CERCLA REGULATORY:** 4,4-Diphenylmethane Diisocyanate (MDI)

Chemical Name	Wt. %	CERCLA RQ
Methylene Bisphenyl Isocyanate	30 - 45	5,000

**CERCLA RQ:** 5000 lbs

#### TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS
Polymeric Isocyanates	9016-87-9
Methylene Bisphenyl Isocyanate	101-68-8
Diphenylmethane-2,4'-di-isocyanate	5873-54-1

**TSCA REGULATORY:** No substances are subject to TSCA 12(b) export notification requirements.

### REGULATIONS

**STATE REGULATIONS:** CAS # 9016-87-9 Delaware Air Quality Management, Pennsylvania Right To Know Component, New Jersey Right To Know Component; CAS # 101-68-8 CA Hazardous Substance, Delaware Air Quality Management, Idaho Air Pollutant, Illinois Toxic Air Contaminant, Maine Hazardous Air Pollutant, Massachusetts Hazardous Substance, Minnesota Hazardous Substance, New York Hazardous Substance, Pennsylvania Hazardous Substance, Washington PELs for Air Contaminant, Wisconsin Hazardous Air Contaminant

CANADA  
WHMIS HAZARD SYMBOL AND CLASSIFICATION



Poison

**WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM):** Controlled Product

**WHMIS CLASS:** D

**DOMESTIC SUBSTANCE LIST (INVENTORY):** All components of this product are listed on the Domestic Substances List.

**16. OTHER INFORMATION**

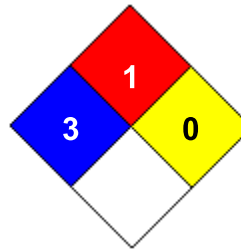
**PREPARED BY:** SDS Regulatory Specialist  
**REVISION SUMMARY:** N/A

**Date Revised:** 01/27/2022

**HMIS RATING**

<b>HEALTH</b>		<b>3</b>
<b>FLAMMABILITY</b>		<b>1</b>
<b>PHYSICAL HAZARD</b>		<b>0</b>
<b>PERSONAL PROTECTION</b>		<b>X</b>

**NFPA CODES**



**HMIS RATINGS NOTES:** (X) - site specific

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