

# CREST Membrana 3010

## SECTION 1. PRODUCT IDENTIFICATION

**Crest Norteamérica, S.A. de C.V.**  
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Trade Name: **CREST MEMBRANA 3010®**  
Description: **Waterproofing Membrane**

## SECTION 2. HAZARDS IDENTIFICATION

**Emergency Overview:** Contact with this material can cause irritation to the skin, eyes and mucous membranes. Thermal decomposition/burning may produce toxic gases and fumes. Closed containers may rupture when exposed to high temperatures, or when the product has been contaminated with water. Avoid breathing hot mists and vapors. This product contains a respiratory and skin sensitizer. Causes respiratory tract irritation and may cause allergic respiratory reaction. May cause permanent respiratory damage. Product vapors are potentially irritating to skin. May cause allergic skin reaction and dermatitis.

**Potential Health Effects Eyes:** Wet product exposure can dry the skin, cause alkali burns and affect the mucous membranes. May cause temporary corneal injury.

**Skin:** Not considered a likely route of exposure under normal product handling conditions. This product may cause irritation to the skin. Isocyanates may react with skin protein and moisture to cause itching, reddening, swelling, scaling or blistering. Individuals previously sensitized to this material may experience these symptoms from exposure to very small amounts of liquid or vapor.

**Ingestion:** May cause gastrointestinal harm, nausea, vomiting and diarrhea. This product may produce corrosive damage to the gastrointestinal tract if it is swallowed.

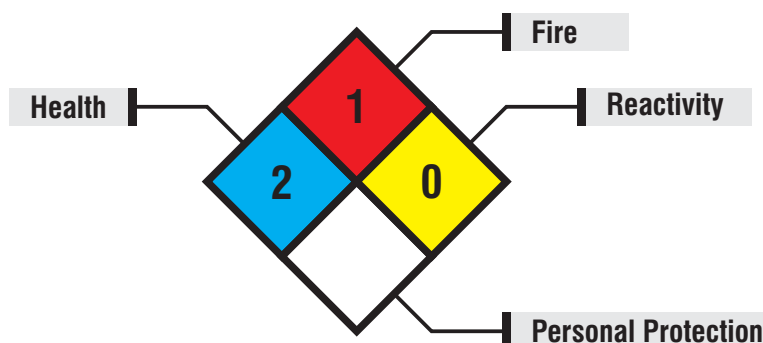
**Inhalation:** Hypersensitivity to product, allergies and skin or respiratory disorders. This product may cause irritation to the respiratory system. Single large doses, and/or repeated exposures, may lead to sensitization to diisocyanates or polyisocyanates (asthma or asthma-like symptoms), causing an individual to experience adverse effects at exposure levels well below exposure limits or guidelines. Symptoms may include chest tightness, wheezing, shortness of breath, coughing or asthmatic attack, and may be delayed up to several hours. Extreme asthmatic reactions can be life threatening. Once sensitized, an individual may experience adverse symptoms upon exposure to dust, cold air or other irritants. Sensitization can last several months, years or be permanent in some cases.

**Medical Conditions:** This product contains Methylene Diphenyl Isocyanate (MDI) which is a potential skin sensitizer and has been shown to alter cells in certain experiments. Although inconclusive, these cellular changes are thought to indicate potential carcinogenicity. Risk to your health depends on duration and concentration of exposure.

**HMIS Ratings:**

**Pers. Protection:**  
Safety glasses, gloves.

**Hazard Scale:**  
0 = Minimal  
1 = Slight  
2 = Moderate  
3 = Serious  
4 = Severe



## SECTION 3. PRODUCT COMPOSITION

INGREDIENTS	CAS NUMBER	PERCENTAGE
NAPHTHA (petroleum), heavy alkylate	64741-65-7	5 - 10
METHYLENE DIPHENYL ISOCYANATE (MDI)	101-68-8	0.1 - 1
SILICA, QUARTZ	14808-60-7	0.1 - 1

The rest of the ingredients are not regulated by OSHA and are considerate confidential.

## SECTION 4. FIRST AID MEASURES

### First Aid: Eyes

Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists, get medical attention.

### First Aid: Skin

Flush with large amounts of water. If irritation persists, get medical attention.

### First Aid: Ingestion

Flush out mouth with water. If ingestion of a large amount does occur, seek medical attention. Do not induce vomiting.

### First Aid: Inhalation

Immediately remove the affected person to fresh air. If breathing is difficult, administer oxygen, if not breathing, give artificial respiration. If symptoms persist, get medical attention.

### First Aid: Notes to Physician

Provide general supportive measures and treat symptomatically.

## SECTION 5. FIRE FIGHTING MEASURES

**Flash Point Method:** 160°F (71.1 °C)

**Lower/Upper Explosion Limits:** LEL %: NA ; UEL %: NA

**Extinguishing Media:** Dry chemical, foam, carbon dioxide, water fog

### Protective Equipment for Firefighters:

Use accepted firefighting techniques. Wear full firefighting protective clothing, including self-contained breathing apparatus (SCBA). Avoid contact with isocyanates. During a fire, isocyanate vapors and other irritating and highly toxic gases may be produced.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### Containment Procedures:

Isolate spill area. Stop discharge if safe to do so. Stop material from contaminating soil or from entering sewers or water streams. Liquid spills: Cover spills with absorbent clay or sawdust and collect material in open container and neutralize with a solution containing 2% liquid detergent, 3% concentrated ammonium hydroxide and 95% water. Wash spill area clean with the neutralization solution. Remove container to a safe place, cover loosely and allow to stand for 24 to 48 hours letting evolved carbon dioxide escape. Collect and contain for disposal.

### Emergency action:

Wear appropriate personal protective equipment. Do not allow product to enter sewer or waterways. Follow all Local, State, Federal and Provincial regulations for disposal. Regulations vary. Consult local authorities before disposal.

### Evacuation Procedures:

Isolate area. Keep unnecessary personnel away.

### Special Procedures:

None

### Spill or leak procedure:

Scrape up material and place in steel drums that are in good condition. Thoroughly clean area where spill occurred. Remove sources of ignition. Ventilate area of spill.

## SECTION 7. HANDLING AND STORAGE

### Handling Procedures:

Do not get this material in contact with skin or eyes. Do not breathe dust from this material. Wash hands after handling and before eating. Do not breathe gas/fumes/vapor/spray. Wear respiratory protection if the material is heated, sprayed, used in a confined space or if exposure limit is exceeded. This product can produce asthmatic sensitization. Individuals with lung or breathing problems or prior allergic reactions to isocyanates must avoid fumes from this product. Wear appropriate protective equipment to avoid contact with skin and eyes. Keep out the reach of children.

### Storage Procedures:

Store it in a cool, dry, well-ventilated area. Keep the container tightly closed. Do not freeze. Keep away from heat. Keep away from direct sunlight. Do not handle or store near an open flame, heat or other sources of ignition.

## SECTION 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

### Component Exposure Limits

Ingredient	NIOSH	ACGIH - TLV
Methylene Diphenyl Isocyanate (MDI) (101-68-8)	METHYLENE BISPHENYL ISOCYANATE 0.2 MGM3 - 0.020 PPM 10-min	METHYLENE BISPHENYL ISOCYANATE (MDI) 0.005 PPM

**Engineering Controls:**

When using product, provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product. Explosion proof exhaust ventilation should be used.

**Personal Protective Equipment:**

**Eye/Face Protection:**

Wear approved eye protection (properly fitted dust- or splash- proof chemical safety goggles) and face protection (face shield).

**Skin and Body Protection:**

Wear suitable protective clothing and impervious gloves.

**Respiratory Protection:**

A NIOSH approved dust mask or filtering face piece is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2).

**General Hygiene Considerations:**

Handle according to established industrial hygiene and safety practices.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

TARGET SOLIDS: 92.5%  
DENSITY: 1.69 g/cc  
ODOR: Slight  
COLOR: White  
PHYSICAL STATE: Paste  
FREEZE PROTECT: No  
VOC (G/Lt.): 40 g/l

**SECTION 10. CHEMICAL STABILITY AND REACTIVITY INFORMATION**

**Chemical Stability**

This is a stable material under normal conditions but will react slightly with water to release some heat and carbon dioxide. The reaction is not violent. Carbon dioxide, carbon monoxide and in high temperature (800° F) low oxygen atmospheres such as in fire situations, hydrogen cyanide may be released.

**Chemical Stability: Conditions to Avoid**

Avoid Strong Acids. Avoid amines, strong bases, alcohols and metallic hydrides. Keep away from sources of ignition.

**Incompatibility**

Not Determined

**Hazardous Decomposition**

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Additional decomposition products include oxides of nitrogen, amines, hydrogen cyanide and isocyanate-containing compounds.

**Possibility of Hazardous Reactions**

Hazardous polymerization can occur with elevated temperatures or contact with water.

**SECTION 11. TOXICOLOGICAL INFORMATION**

**Acute Dose Effects**

**A: General Product Information**

It may cause eye, skin and respiratory tract irritation. Harmful if swallowed.

**Carcinogenicity**

If this product contains any carcinogens, they will be noted below: This product contains Methylene Diphenyl Isocyanate (MDI). MDI is not listed by the NTP, IARC or regulated by OSHA as a carcinogen. However, it has been shown to alter cells in certain experiments. Although inconclusive, these cellular changes are thought to indicate potential carcinogenicity.

**Local Effects**

Single large does, and/or repeated exposures, may lead to sensitization to diisocyanates or polyisocyanates (asthma or asthma-like symptoms), causing an individual to experience adverse effects at exposure levels well below exposure limits or guidelines. Symptoms may include chest tightness, wheezing, shortness of breath, coughing or asthmatic attack, and may be delayed up to several hours. Extreme asthmatic reactions can be life threatening. Once sensitized, an individual may experience adverse symptoms upon exposure to dust, cold air or other irritants. Sensitization can last several months, years or be permanent in some cases.

Chronic exposure may cause lung damage, including fibrosis and decreased lung function, which may be permanent.

## SECTION 12. ECOLOGICAL INFORMATION

### Eco toxicity

#### A: General Product Information

No information available for the product.

#### B: Component Analysis - Eco toxicity - Aquatic Toxicity

No Eco toxicity data are available for this product's components.

## SECTION 13. DISPOSAL CONSIDERATIONS

### US EPA Waste Number & Descriptions

#### Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

### Disposal Instructions

All wastes must be handled in accordance with local, state and federal regulations. See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

## SECTION 14. TRANSPORTATION INFORMATION

### US DOT Information

Shipping Name: Not Regulated as hazardous goods.

### IATA Information

Shipping Name: Not Regulated as hazardous goods.

### IMDG Information

Shipping Name: Not Regulated as hazardous goods.

## SECTION 15. REGULATORY INFORMATION

This MSDS is prepared and distributed pursuant to the Federal Hazard Communication Standard, 29 CFR 1910.1200.

### US Federal Regulations

#### Component Analysis

US EPCRA (SARA Title III) Section 313 –

Methylene Diphenyl Isocyanate (MDI)	(101-68-8)	METHYLENEBIS(PHENYLISOCYANATE) (MDI) US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance
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### State Regulations

If this product contains any California Proposition 65 chemicals at reportable levels they will be listed below:

Butyl Benzyl Phthalate (BBP)  
Di-Isodecyl Phthalate (DIDP)  
Furan  
Methanol

### Restriction of Hazardous Substances (RoHS)

The product(s) covered by this (M)SDS do not contain or are under the prescribed levels of prohibited substances listed under 2011/65/EU Hazardous Substances Restricted or Prohibited in Electrical Equipment, including lead (CAS # 7439-92-1), mercury (CAS # 7439-97-6), cadmium (CAS # 7440-43-9), hexavalent chromium (CAS # 7440-47-3), polybrominated biphenyls (PBB) and polybrominated diphenyl ethers (PBDE).

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause cancer.

**Component Analysis - WHMIS IDL** the following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List

**Substances of Very High Concern (SVHC)**

The product(s) covered by this (M)SDS do not include any of the substances above a concentration of 0.1% weight by weight (w/w) in the Candidate List of Substances of Very High Concern (SVHC) for authorization published or proposed by ECHA on the following dates:

- October 28, 2008
- August 31, 2009
- January 13, 2010
- March 8, 2010
- June 18, 2010
- October 14, 2010
- December 15, 2010
- June 20, 2011
- December 19, 2011
- February 17, 2012
- June 18, 2012
- December 19, 2012
- June 20, 2013
- December 16, 2013
- June 16, 2014
- December 17, 2014

**International Regulations**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and contains all the information required by the Controlled Products Regulations.

**IMPORTANT**

The information offered in good faith as typical values and not as a product specification. No warranty, either expressly or implications about what is written in this document. Industrial hygiene and Safety Management Procedures is suggested to applicable. However, each user should review these recommendations in the specific context and determine whether they are appropriate. Since we do not know the conditions of employment of the user, the information contained in this safety sheet is based, in the state of our knowledge and National Standards.

The product should not be used for other uses than the specified in the data sheet.