1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: WATERBORNE URETHANE CATALYST
Product Code: V540-90
Alternate Product Code: V54090
Product Class: CATALYST
Color: All
Recommended use: Industrial paint
Restrictions on use: No information available

Manufacturer:
Benjamin Moore & Co.
101 Paragon Drive
Montvale, NJ 07645
Phone: 1-866-708-9180
corotechcoatings.com

Emergency Telephone:
CHEMTREC (US): 800-424-9300
CHEMTREC (outside US): (703)-527-3887

2. HAZARDS IDENTIFICATION

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

| Acute toxicity - Inhalation (Vapors) | Category 4 |
| Acute toxicity - Inhalation (Dusts/Mists) | Category 4 |
| Respiratory sensitization | Category 1 |
| Skin sensitization | Category 1 |
| Specific target organ toxicity (single exposure) | Category 3 |
| Specific target organ toxicity (repeated exposure) | Category 2 |

Label elements

Danger

Hazard statements
Harmful if inhaled
May cause allergy or asthma symptoms or breathing difficulties if inhaled
May cause an allergic skin reaction
May cause respiratory irritation
May cause damage to organs through prolonged or repeated exposure
Appearance  liquid
Odor  solvent

Precautionary Statements - Prevention
Use only outdoors or in a well-ventilated area
In case of inadequate ventilation wear respiratory protection
Contaminated work clothing should not be allowed out of the workplace
Wear protective gloves
Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response
Get medical advice/attention if you feel unwell
Skin
IF ON SKIN: Wash with plenty of soap and water
If skin irritation or rash occurs: Get medical advice/attention
Wash contaminated clothing before reuse
Inhalation
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician

Precautionary Statements - Storage
Store in a well-ventilated place. Keep container tightly closed
Store locked up

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)
Not applicable

Other information
No information available

Other hazards
IMPORTANT: Designed to be mixed with other components. Mixture will have hazards of all components. Before opening packages, read all warning labels. Follow all precautions.

3. COMPOSITION INFORMATION ON COMPONENTS

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS No.</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hexane, 1,6-diisocyanato-, homopolymer</td>
<td>28182-81-2</td>
<td>80</td>
</tr>
<tr>
<td>Polyisocyanate based on HDI</td>
<td>-</td>
<td>25</td>
</tr>
<tr>
<td>Hexamethylene-1,6-diisocyanate</td>
<td>822-06-0</td>
<td>0.5</td>
</tr>
</tbody>
</table>
4. FIRST AID MEASURES

**General Advice**  
No hazards which require special first aid measures.

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

**Skin Contact**  
Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician. Wash clothing before reuse. Destroy contaminated articles such as shoes.

**Inhalation**  
Move to fresh air. If symptoms persist, call a physician.

**Ingestion**  
Clean mouth with water and afterwards drink plenty of water. Consult a physician if necessary.

**Most Important Symptoms/Effects**  
May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause allergic skin reaction.

**Notes To Physician**  
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Protective Equipment And Precautions For Firefighters**  
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**Specific Hazards Arising From The Chemical**  
Closed containers may rupture if exposed to fire or extreme heat.

**Sensitivity To Mechanical Impact**  
No

**Sensitivity To Static Discharge**  
No

**Flash Point Data**  
Flash Point (°F) 381.0  
Flash Point (°C) 193.9  
Method PMCC

**Flammability Limits In Air**

- Lower flammability limit: Not applicable
- Upper flammability limit: Not applicable

**NFPA**  
Health: 2  
Flammability: 1  
Instability: 1  
Special: Not Applicable
NFPA Legend
0 - Not Hazardous
1 - Slightly
2 - Moderate
3 - High
4 - Severe

The ratings assigned are only suggested ratings, the contractor/employer has ultimate responsibilities for NFPA ratings where this system is used.

Additional information regarding the NFPA rating system is available from the National Fire Protection Agency (NFPA) at www.nfpa.org.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions
Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.

Other Information
Prevent further leakage or spillage if safe to do so.

Environmental precautions
See Section 12 for additional Ecological Information.

Methods for Cleaning Up
Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Handling
Avoid contact with skin, eyes and clothing. Avoid breathing vapors, spray mists or sanding dust. In case of insufficient ventilation, wear suitable respiratory equipment.

Storage
Keep container tightly closed. Keep out of the reach of children.

Incompatible Materials
No information available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hexamethylene-1,6-diisocyanate</td>
<td>0.005 ppm - TWA</td>
<td>N/E</td>
</tr>
</tbody>
</table>

Legend
ACGIH - American Conference of Governmental Industrial Hygienists Exposure Limits
OSHA - Occupational Safety & Health Administration Exposure Limits
N/E - Not Established

Engineering Measures
Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/Face Protection
Safety glasses with side-shields.

Skin Protection
Protective gloves and impervious clothing.

Respiratory Protection
In case of insufficient ventilation wear suitable respiratory equipment.

Hygiene Measures
Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Wash thoroughly after handling.
9. PHYSICAL AND CHEMICAL PROPERTIES

- **Appearance**: liquid
- **Odor**: solvent
- **Odor Threshold**: No information available
- **Density (lbs/gal)**: 9.55 - 9.65
- **Specific Gravity**: 1.14 - 1.6
- **pH**: No information available
- **Viscosity (cps)**: No information available
- **Solubility(ies)**: No information available
- **Water solubility**: No information available
- **Evaporation Rate**: No information available
- **Vapor pressure @20 °C (kPa)**: No information available
- **Vapor density**: No information available
- **Wt. % Solids**: 90 - 100
- **Vol. % Solids**: 90 - 100
- **Wt. % Volatiles**: 0 - 10
- **Vol. % Volatiles**: 0 - 10
- **VOC Regulatory Limit (g/L)**: <100
- **Boiling Point (°F)**: No information available
- **Boiling Point (°C)**: No information available
- **Freezing Point (°F)**: No information available
- **Freezing Point (°C)**: No information available
- **Flash Point (°F)**: 381.0
- **Flash Point (°C)**: 193.9
- **Method**: PMCC
- **Flammability (solid, gas)**: Not applicable
- **Upper flammability limit**: Not applicable
- **Lower flammability limit**: Not applicable
- **Autoignition Temperature (°F)**: No information available
- **Autoignition Temperature (°C)**: No information available
- **Decomposition Temperature (°F)**: No information available
- **Decomposition Temperature (°C)**: No information available
- **Partition coefficient**: No information available

10. STABILITY AND REACTIVITY

- **Reactivity**: Not Applicable
- **Chemical Stability**: Stable under normal conditions.
- **Conditions to avoid**: Prevent from freezing.
- **Incompatible Materials**: No materials to be especially mentioned.
- **Hazardous Decomposition Products**: None under normal use.
- **Possibility of hazardous reactions**: None under normal conditions of use.

11. TOXICOLOGICAL INFORMATION

- **Product Information**
Information on likely routes of exposure

Principal Routes of Exposure  
Eye contact, skin contact and inhalation.

Acute Toxicity

Product Information  
No information available

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms  
No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Eye contact  
May cause slight irritation.

Skin contact  
Substance may cause slight skin irritation. Prolonged or repeated contact may dry skin and cause irritation.

Inhalation  
May cause irritation of respiratory tract.

Ingestion  
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Sensitization  
Respiratory sensitizer  
May cause allergy or asthma symptoms or breathing difficulties if inhaled  
May cause an allergic skin reaction

Neurological Effects  
No information available.

Mutagenic Effects  
No information available.

Reproductive Effects  
No information available.

Developmental Effects  
No information available.

Target organ effects  
No information available.

STOT - single exposure  
No information available.

STOT - repeated exposure  
No information available.

Other adverse effects  
No information available.

Aspiration Hazard  
No information available

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (inhalation-dust/mist)  
3.3 mg/L

ATEmix (inhalation-vapor)  
14 mg/L

Hexane, 1,6-diisocyanato-, homopolymer

LD50 Oral: > mg/kg (Rat)
LD50 Dermal: > mg/kg (Rabbit)
LC50 Inhalation (Vapor): mg/m³ (Rat, 4 hr.)
Sensitization  skin - positive (guinea pig)

Hexamethylene-1,6-diisocyanate

LD50 Oral: µL/kg (Rat)
LD50 Dermal: µL/kg (Rabbit)
LC50 Inhalation (Vapor): mg/m³ (Rat, 4 hr.)
Sensitization  Respiratory sensitizer skin - positive (guinea pig)

Carcinogenicity

There are no known carcinogenic chemicals in this product above reportable levels.
12. ECOLOGICAL INFORMATION

Ecotoxicity Effects
The environmental impact of this product has not been fully investigated.

Product Information

Acute Toxicity to Fish
No information available

Acute Toxicity to Aquatic Invertebrates
No information available

Acute Toxicity to Aquatic Plants
No information available

Persistence / Degradability
No information available.

Bioaccumulation
No information available.

Mobility in Environmental Media
No information available.

Ozone
No information available

Component Information

Acute Toxicity to Fish
No information available

Acute Toxicity to Aquatic Invertebrates
No information available

Acute Toxicity to Aquatic Plants

Hexane, 1,6-diisocyanato-, homopolymer
EC50: > 1000 mg/L (Green algae (Scenedesmus subspicatus), 72 hrs.)

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method
Dispose of in accordance with federal, state, and local regulations. Local requirements may vary, consult your sanitation department or state-designated environmental protection agency for more disposal options.

14. TRANSPORT INFORMATION

DOT
Not regulated
15. REGULATORY INFORMATION

International Inventories

TSCA: United States Yes - All components are listed or exempt.
DSL: Canada Yes - All components are listed or exempt.

Federal Regulations

SARA 311/312 hazardous categorization

- Acute health hazard: Yes
- Chronic Health Hazard: Yes
- Fire hazard: No
- Sudden release of pressure hazard: No
- Reactive Hazard: No

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

None

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following HAPs:

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS No.</th>
<th>Weight-%</th>
<th>Hazardous Air Pollutant (HAP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hexamethylene-1,6-diisocyanate</td>
<td>822-06-0</td>
<td>0.5</td>
<td>Listed</td>
</tr>
</tbody>
</table>

US State Regulations

California Proposition 65

⚠️ WARNING: Cancer and Reproductive Harm– www.P65warnings.ca.gov

State Right-to-Know

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Massachusetts</th>
<th>New Jersey</th>
<th>Pennsylvania</th>
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</thead>
<tbody>
<tr>
<td>Hexamethylene-1,6-diisocyanate</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

Legend

X - Listed
16. OTHER INFORMATION

HMIS - Health: 2* Flammability: 1 Reactivity: 1 PPE: -

HMIS Legend
0 - Minimal Hazard
1 - Slight Hazard
2 - Moderate Hazard
3 - Serious Hazard
4 - Severe Hazard
* - Chronic Hazard
X - Consult your supervisor or S.O.P. for "Special" handling instructions.

Note: The PPE rating has intentionally been left blank. Choose appropriate PPE that will protect employees from the hazards the material will present under the actual normal conditions of use.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer, has chosen to provide them. HMIS® ratings are to be used only in conjunction with a fully implemented HMIS® program by workers who have received appropriate HMIS® training. HMIS® is a registered trade and service mark of the NPCA. HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

WARNING! If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

Prepared By
Product Stewardship Department
Benjamin Moore & Co.
101 Paragon Drive
Montvale, NJ 07645
800-225-5554

Revision Date: 20-Sep-2018
Revision Summary
Not available

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END OF SAFETY DATA SHEET