1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: BENJAMIN MOORE COROTECH QUICK-CURE SYSTEM POLYASPARTIC TOPCOAT CATALYST
Product Code: V531-90
Alternate Product Code: V53190
Product Class: CATALYST
Color: Clear
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)

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity - Inhalation (Vapors)</td>
<td>Category 4</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 2A</td>
</tr>
<tr>
<td>Respiratory sensitization</td>
<td>Category 1</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>Category 1</td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>Category 3</td>
</tr>
<tr>
<td>Flammable liquids</td>
<td>Category 2</td>
</tr>
</tbody>
</table>

Label elements

Danger

Hazard statements
Harmful if inhaled
Causes serious eye irritation
May cause allergy or asthma symptoms or breathing difficulties if inhaled
May cause an allergic skin reaction
May cause respiratory irritation. May cause drowsiness or dizziness
Highly flammable liquid and vapor

Precautionary Statements - Prevention
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Wash face, hands and any exposed skin thoroughly after handling
In case of inadequate ventilation wear respiratory protection
Contaminated work clothing should not be allowed out of the workplace
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting/equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Wear protective gloves/protective clothing/eye protection/face protection
Keep cool

Eyes
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing
If eye irritation persists: Get medical advice/attention

Skin
If skin irritation or rash occurs: Get medical advice/attention
Wash contaminated clothing before reuse
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

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

Fire
In case of fire: Use CO2, dry chemical, or foam for extinction

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>70</td>
</tr>
<tr>
<td>n-Butyl acetate</td>
<td>123-86-4</td>
<td>20</td>
</tr>
<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td>15</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

#### Description of first aid measures

**General Advice**
If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance.

**Eye Contact**
Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If eye irritation persists, consult a specialist.

**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. If not breathing, give artificial respiration. Call a physician immediately.

**Ingestion**
Clean mouth with water and afterwards drink plenty of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician.

**Protection Of First-Aiders**
Use personal protective equipment.

**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

**Flammable Properties**
Vapors may travel considerable distance to a source of ignition and flash back. Vapors may cause flash fire.

**Suitable Extinguishing Media**
Foam, dry powder or water. 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.

Hazardous combustion products

Burning may result in carbon dioxide, carbon monoxide and other combustion products of varying composition which may be toxic and/or irritating.

Specific Hazards Arising From The Chemical

Flammable. Flash back possible over considerable distance. Keep product and empty container away from heat and sources of ignition. Closed containers may rupture if exposed to fire or extreme heat. Thermal decomposition can lead to release of irritating gases and vapors.

Sensitivity To Mechanical Impact

No

Sensitivity To Static Discharge

Yes

Flash Point Data

Flash Point (°F) -4
Flash Point (°C) -20
Method PMCC

Flammability Limits In Air

Lower flammability limit: Not available
Upper flammability limit: Not available

NFPA Health: 2 Flammability: 3 Instability: 0 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

Remove all sources of ignition. Take precautions to prevent flashback. Ground and bond all containers and handling equipment. Take precautionary measures against static discharges. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal protective equipment.

Other Information

Prevent further leakage or spillage if safe to do so. Do not allow material to
contaminate ground water system. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained.

**Environmental precautions**
See Section 12 for additional Ecological Information.

**Methods for Cleaning Up**
Dam up. Soak up with inert absorbent material. Use a non-sparking or explosion proof means to transfer material to a sealed, appropriate container for disposal. Clean contaminated surface thoroughly.

## 7. HANDLING AND STORAGE

### Handling
Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Do not breathe vapors or spray mist. Use only in ventilated areas. Prevent vapor build-up by providing adequate ventilation during and after use.

Take precautionary measures against static discharges. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from heat, sparks and flame. Do not smoke. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and other sources of ignition during use and until all vapors are gone. Ignition and/or flash back may occur.

### Storage

### Incompatible Materials
Incompatible with strong acids and bases and strong oxidizing agents.

### Technical measures/Precautions
Ensure adequate ventilation. Use only where airflow will keep vapors from building up in or near the work area in adjoining rooms. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing and disposal of flammable liquids.

Dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. All equipment should be non-sparking and explosion proof. Use explosion proof electrical equipment for ventilation, lighting and material handling.

## 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>n-Butyl acetate</td>
<td>150 ppm - TWA</td>
<td>150 ppm - TWA</td>
</tr>
<tr>
<td></td>
<td>200 ppm - STEL</td>
<td>710 mg/m³ - TWA</td>
</tr>
<tr>
<td>Acetone</td>
<td>250 ppm - TWA</td>
<td>1000 ppm - TWA</td>
</tr>
<tr>
<td></td>
<td>500 ppm - STEL</td>
<td>2400 mg/m³ - TWA</td>
</tr>
<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
Appropriate engineering controls

Engineering Measures

Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/Face Protection
Safety glasses with side-shields. If splashes are likely to occur, wear: Tightly fitting safety goggles.

Skin Protection
Long sleeved clothing. Protective gloves.

Respiratory Protection
Use only with adequate ventilation. In operations where exposure limits are exceeded, use a NIOSH approved respirator that has been selected by a technically qualified person for the specific work conditions. When spraying the product or applying in confined areas, wear a NIOSH approved respirator specified for paint spray or organic vapors.

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>solvent</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No information available</td>
</tr>
<tr>
<td>Density (lbs/gal)</td>
<td>8.45 - 8.55</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.01 - 1.03</td>
</tr>
<tr>
<td>pH</td>
<td>No information available</td>
</tr>
<tr>
<td>Viscosity (cps)</td>
<td>No information available</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>No information available</td>
</tr>
<tr>
<td>Water solubility</td>
<td>No information available</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>No information available</td>
</tr>
<tr>
<td>Vapor pressure @20 °C (kPa)</td>
<td>No information available</td>
</tr>
<tr>
<td>Vapor density</td>
<td>No information available</td>
</tr>
<tr>
<td>Wt. % Solids</td>
<td>65 - 75</td>
</tr>
<tr>
<td>Vol. % Solids</td>
<td>55 - 65</td>
</tr>
<tr>
<td>Wt. % Volatiles</td>
<td>25 - 35</td>
</tr>
<tr>
<td>Vol. % Volatiles</td>
<td>35 - 45</td>
</tr>
<tr>
<td>VOC Regulatory Limit (g/L)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Boiling Point (°F)</td>
<td>133</td>
</tr>
<tr>
<td>Boiling Point (°C)</td>
<td>56</td>
</tr>
<tr>
<td>Freezing Point (°F)</td>
<td>No information available</td>
</tr>
<tr>
<td>Freezing Point (°C)</td>
<td>No information available</td>
</tr>
<tr>
<td>Flash Point (°F)</td>
<td>-4</td>
</tr>
<tr>
<td>Flash Point (°C)</td>
<td>-20</td>
</tr>
<tr>
<td>Method</td>
<td>PMCC</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Upper flammability limit:</td>
<td>No information available</td>
</tr>
<tr>
<td>Lower flammability limit:</td>
<td>No information available</td>
</tr>
<tr>
<td>Autoignition Temperature (°F)</td>
<td>No information available</td>
</tr>
<tr>
<td>Autoignition Temperature (°C)</td>
<td>No information available</td>
</tr>
<tr>
<td>Decomposition Temperature (°F)</td>
<td>No information available</td>
</tr>
<tr>
<td>Decomposition Temperature (°C)</td>
<td>No information available</td>
</tr>
</tbody>
</table>
Decomposition Temperature (°C)  No information available
Partition coefficient  No information available

10. STABILITY AND REACTIVITY

Reactivity  No data available
Chemical Stability  Stable under normal conditions. Hazardous polymerisation does not occur.
Conditions to avoid  Keep away from open flames, hot surfaces, static electricity and sources of ignition. Sparks. Elevated temperature.
Incompatible Materials  Incompatible with strong acids and bases and strong oxidizing agents.
Hazardous Decomposition Products  Thermal decomposition can lead to release of irritating gases and vapors.
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  Repeated or prolonged exposure to organic solvents may lead to permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling vapors may be harmful or fatal.

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  Causes serious eye irritation. May cause redness, itching, and pain.
Skin contact  May cause skin irritation and/or dermatitis. Prolonged skin contact may defat the skin and produce dermatitis.
Ingestion  Harmful if swallowed. Ingestion may cause irritation to mucous membranes. Small amounts of this product aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury, possibly progressing to death.
Inhalation  Harmful by inhalation. High vapor / aerosol concentrations are irritating to the eyes, nose, throat and lungs and may cause headaches, dizziness, drowsiness, unconsciousness, and other central nervous system effects.
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 - repeated exposure
Causes damage to organs through prolonged or repeated exposure if inhaled.
May cause disorder and damage to the liver, kidney, spleen, blood.

STOT - single exposure
May cause disorder and damage to the Respiratory system, Central nervous system.

Other adverse effects
No information available.

Aspiration Hazard
May be harmful if swallowed and enters airways. Small amounts of this product aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury, possibly progressing to death.

Numerical measures of toxicity

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

<table>
<thead>
<tr>
<th>Component Information</th>
<th>Acute Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hexane, 1,6-diisocyanato-, homopolymer</td>
<td>LD50 Oral: &gt; mg/kg (Rat)</td>
</tr>
<tr>
<td></td>
<td>LD50 Dermal: &gt; mg/kg (Rabbit)</td>
</tr>
<tr>
<td></td>
<td>LC50 Inhalation (Vapor): mg/m³ (Rat, 4 hr.)</td>
</tr>
<tr>
<td>n-Butyl acetate</td>
<td>Sensitization skin - positive (guinea pig)</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral: 10768 mg/kg (Rat)</td>
</tr>
<tr>
<td></td>
<td>LD50 Dermal: &gt; 17600 mg/kg (Rabbit)</td>
</tr>
<tr>
<td></td>
<td>LC50 Inhalation (Vapor): ppm (Rat, 4 hr.)</td>
</tr>
<tr>
<td></td>
<td>Sensitization non-sensitizing (guinea pig)</td>
</tr>
<tr>
<td>Acetone</td>
<td>LD50 Oral: 5800 mg/kg (Rat)</td>
</tr>
<tr>
<td>Hexamethylene-1,6-diisocyanate</td>
<td>LD50 Oral: µL/kg (Rat)</td>
</tr>
<tr>
<td></td>
<td>LD50 Dermal: µL/kg (Rabbit)</td>
</tr>
<tr>
<td></td>
<td>LC50 Inhalation (Vapor): mg/m³ (Rat, 4 hr.)</td>
</tr>
<tr>
<td></td>
<td>Sensitization Respiratory sensitizer skin - positive (guinea pig)</td>
</tr>
</tbody>
</table>

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
Not applicable

Component Information

Acute Toxicity to Fish

n-Butyl acetate
LC50: 18 mg/L (Fathead Minnow - 96 hr.)
Acetone
LC50: 8300 (Bluegill - 96 hr.) mg/L

Acute Toxicity to Aquatic Invertebrates

n-Butyl acetate
EC50: 72.8 mg/L (Daphnia magna - 48 hr.)
Acetone
EC50: 12600 mg/L (Daphnia magna - 48 hr.)

Acute Toxicity to Aquatic Plants

Hexane, 1,6-diisocyanato-, homopolymer
EC50: > 1000 mg/L (Green algae (Scenedesmus subspicatus), 72 hrs.)
n-Butyl acetate
EC50: 674.7 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.

**Empty Container Warning**
Emptied containers may retain product residue. Follow label warnings even after container is emptied. Residual vapors may explode on ignition.

### 14. TRANSPORT INFORMATION

**DOT**
- **Proper Shipping Name**: PAINT
- **Hazard class**: 3
- **UN-No.**: UN1263
- **Packing Group**: II
- **Description**: UN1263, PAINT, 3, II

**ICAO / IATA**
Contact the preparer for further information.

**IMDG / IMO**
Contact the preparer for further information.

### 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**: No
- **Fire hazard**: Yes
- **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:
Hexamethylene-1,6-diisocyanate | 822-06-0 | 0.5 | Listed

### US State Regulations

#### California Proposition 65

**WARNING:** Cancer and Reproductive Harm—[www.P65warnings.ca.gov](http://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>
</tr>
</thead>
<tbody>
<tr>
<td>n-Butyl acetate</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Acetone</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Hexamethylene-1,6-diisocyanate</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

**Legend**

X - Listed

### 16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>HMIS -</th>
<th>Health: 2</th>
<th>Flammability: 3</th>
<th>Reactivity: 0</th>
<th>PPE: -</th>
</tr>
</thead>
</table>

**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](http://www.epa.gov/lead).

**Prepared By**

Product Stewardship Department
Benjamin Moore & Co.
Disclaimer
The information contained herein is presented in good faith and believed to be accurate as of the effective date shown above. This information is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. Any use of this data and information must be determined by the user to be in accordance with applicable federal, provincial, and local laws and regulations.

END OF SAFETY DATA SHEET