This is a kit that contains the following components:

QWIKJOINT UVR 1:1 PART A
QWIKJOINT UVR IRONSTONE PT B - 5 GAL
SECTION 1 - PRODUCT IDENTIFICATION

Trade name : QWIKJOINT UVR 1:1 PART A
Product code : 692194
COMPANY : Euclid Chemical Company
Address : 19218 Redwood Road
Cleveland, OH 44110
Telephone : 1-800-321-7628
Emergency Phone : U.S. only: 1-800-424-9300
International Users Call Collect: 1-703-527-3887
Product use : Joint filler

SECTION 2 - HAZARDS IDENTIFICATION

Emergency Overview
Clear. Liquid solution. Vapor and/or mist may irritate nose and throat. May cause allergic respiratory sensitization. Move to fresh air. If required, artificial respiration or administration of oxygen can be performed by trained personnel. Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention.

Acute Potential Health Effects/ Routes of Entry
Inhalation : Vapor and/or mist may irritate nose and throat. May cause allergic respiratory sensitization.
Eyes : Vapor and/or mist may cause eye irritation. May cause sensitization.
Ingestion : May cause irritation to the mouth, throat and stomach. May cause gastrointestinal irritation, nausea, and vomiting.
Skin : May cause sensitization resulting in irritation, itching and redness.

Aggravated Medical Conditions
Pre-existing eye, skin and respiratory disorders may be aggravated by exposure.

Chronic Health Effects
Overexposure may cause dermatitis, asthma, skin and respiratory sensitization and decreased lung function. Diphenylmethane diisocyanate (methylene bisphenyl isocyanate) caused an increased incidence of lung tumors in experimental animals following long term inhalation at concentrations in excess of 100 times the exposure limit. Fillers are encapsulated and not expected to be released from product under normal conditions of use.
Target Organs : Lung, Skin, Eye

SECTION 3 - PRODUCT COMPOSITION

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyurethane Polymer</td>
<td>NJ TSRN# 51721300-5119P</td>
<td>&gt; 60.0</td>
</tr>
</tbody>
</table>
SECTION 4 - FIRST AID MEASURES

Get immediate medical attention for any significant overexposure.

Inhalation : Move to fresh air. If required, artificial respiration or administration of oxygen can be performed by trained personnel. Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention.

Eye contact : Flush with water for at least 15 minutes while holding eye lids apart. Get medical attention immediately.

Skin contact : Wash area of contact thoroughly with hand cleaner followed by soap and water. If irritation, rash or other disorders develop, get medical attention immediately.

Ingestion : Do not induce vomiting unless advised by a physician. Call nearest Poison Control Center or Physician immediately.

SECTION 5 - FIRE FIGHTING MEASURES

Flash point : 325 °F, 163 °C
Method : Seta closed cup
Lower explosion limit : Not available.
Upper explosion limit : Not available.
Autoignition temperature : Not available.

Extinguishing media : If water fog is ineffective, use carbon dioxide, dry chemical or foam.

Hazardous combustion products : Carbon monoxide and carbon dioxide can form. Smoke, fumes. Hydrocyanic acid and nitrogen oxides can form.

Protective equipment for firefighters : Use accepted fire fighting techniques. Wear full firefighting protective clothing, including self-contained breathing apparatus (SCBA).

Fire and explosion conditions : This product not expected to ignite under normal conditions of use.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Use appropriate protective equipment. Avoid contact with material. Absorb spill in sand, earth or other suitable material. Transfer to appropriate container for disposal.

SECTION 7 - HANDLING AND STORAGE

Store under normal warehouse conditions. Change soiled work clothes frequently. Clean hands thoroughly after handling. Prevent inhalation of vapor, ingestion, and contact with skin eyes and clothing. Keep container closed when not in use. Precautions also apply to emptied containers.
SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protection equipment
Respiratory protection: Use full engineering controls before relying on personal protective equipment. Wear appropriate, properly fitted air purifying respirator with combination particulate filter and vapor/gas removing cartridge when airborne contaminant level(s) exceed exposure limits indicated on the MSDS, or product is spray applied.

Hand protection: Use suitable impervious nitrile or neoprene gloves and protective apparel to reduce exposure.

Eye protection: Wear appropriate eye protection. Wear chemical safety goggles and/or face shield to prevent eye contact. Do not wear contact lenses. Do not touch eyes with contaminated body parts or materials. Have eye washing facilities readily available.

Skin and body protection: Prevent contact with shoes and clothing.

Protective measures: Use professional judgment in the selection, care, and use.

Engineering measures: Use only in well ventilated areas. Provide maximum ventilation in enclosed areas. Use general ventilation and/or local exhaust to reduce the airborne contaminant concentration below the exposure limit listed in the MSDS.

Exposure Limits

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>Regulation</th>
<th>Limit</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,4’-Methylene bis(phenylisocyanate)</td>
<td>101-68-8</td>
<td>ACGIH TWA:</td>
<td>0.005 ppm</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Form: Liquid solution
Color: Clear
Odor: Slight
pH: Not available.
Vapour pressure: Not available.
Vapor density: Heavier than air
Melting point/range: Not available.
Freezing point: Not available.
Boiling point/range: Not available.
Water solubility: Negligible
Specific Gravity: 1.05
% Volatile Weight: 0.0 %
SECTION 10 - REACTIVITY / STABILITY

Substances to avoid: Strong acids, Strong bases, Amines, Water or moisture, Alcohols.
Stability: Material is stable under normal storage, handling, and use.
Hazardous polymerization: Will not occur under normal conditions.

SECTION 11 - TOXICOLOGICAL INFORMATION

4,4’-Methylene bis(phenylisocyanate), CAS-No.: 101-68-8
Acute inhalation toxicity (LC-50) 0.369 mg/l for 4 h (Rat) 0.38 mg/l for 4 h (Rat)

SECTION 12 - ECOLOGICAL INFORMATION

No Data Available

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal Method: Waste not regulated under RCRA. Incinerate at EPA approved facility or dispose of waste in compliance with state and local regulations.

SECTION 14 - TRANSPORTATION / SHIPPING DATA

CFR / DOT:
Not Regulated

TDG:
Not Regulated

IMDG:
Not Regulated

SECTION 15 - REGULATORY INFORMATION

North American Inventories:
All components are listed or exempt from the TSCA inventory.
This product or its components are listed on, or exempt from the Canadian Domestic Substances List.
U.S. Federal Regulations:
SARA 313 Components : 4,4’-Methylene bis(phenylisocyanate) 101-68-8
SARA 311/312 Hazards : Acute Health Hazard

OSHA Hazardous Components :
4,4’-Methylene bis(phenylisocyanate) 101-68-8

OSHA Status: Considered hazardous based on the following criteria:
Irritant Sensitizer

When appropriately mixed with the other part, product has a VOC less water and exempt solvent of:
0 g/l

U.S. State Regulations:
MASS RTK Components : 4,4’-Methylene bis(phenylisocyanate) 101-68-8

Penn RTK Components :
Polyurethane Polymer NJ TSRN# 51721300-5119P
4,4’-Methylene bis(phenylisocyanate) 101-68-8
Diphenylmethane diisocyanate 26447-40-5

NJ RTK Components :
Polyurethane Polymer NJ TSRN# 51721300-5119P
4,4’-Methylene bis(phenylisocyanate) 101-68-8
Diphenylmethane diisocyanate 26447-40-5

WARNING! Contains chemicals known to the State of California to cause cancer, birth defects and/or other reproductive harm:
None known.

SECTION 16 - OTHER INFORMATION

HMIS Rating :
\[
\begin{array}{|c|c|}
\hline
\text{Health} & 1 \\
\text{Flammability} & 1 \\
\text{Reactivity} & 0 \\
\hline
\end{array}
\]
0 = Minimum
1 = Slight
2 = Moderate
3 = Serious
4 = Severe

Further information:
For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.

Prepared by: Rich Mikol

Legend
ACGIH - American Conference of Governmental Hygienists
PEL - Permissible Exposure Limit
Material Safety Data Sheet

QWIJKJOIN UVR 1:1 PART A

Version 1.0

REVISION DATE: 01/10/2013

Print Date 01/10/2014

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act
DOT - Department of Transportation
DSL - Domestic Substance List
EPA - Environmental Protection Agency
HMIS - Hazardous Materials Information System
IARC - International Agency for Research on Cancer
MSHA - Mine Safety Health Administration
NDSL - Non-Domestic Substance List
NIOSH - National Institute for Occupational Safety and Health
NTP - National Toxicology Program
OSHA - Occupational Safety and Health Administration

RCRA - Resource Conservation and Recovery Act
RTK - Right To Know
SARA - Superfund Amendments and Reauthorization Act
STEL - Short Term Exposure Limit
TLV - Threshold Limit Value
TSCA - Toxic Substances Control Act
TWA - Time Weighted Average
V - Volume
VOC - Volatile Organic Compound
WHMIS - Workplace Hazardous Materials Information System
SECTION 1 - PRODUCT IDENTIFICATION

Trade name : QWIKJOINT UVR IRONSTONE PT B - 5 GAL
Product code : 692I94

COMPANY : Euclid Chemical Company
19218 Redwood Road
Cleveland, OH 44110

Telephone : 1-800-321-7628
Emergency Phone: U.S. only: 1-800-424-9300
International Users Call Collect: 1-703-527-3887

Product use : Curative

SECTION 2 - HAZARDS IDENTIFICATION

Emergency Overview
Dark Gray. Liquid solution. May cause slight irritation to the respiratory system. Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention.

Acute Potential Health Effects/ Routes of Entry
Inhalation : May cause slight irritation to the respiratory system.
Eyes : Vapors or liquid may cause tearing, blurred vision, severe irritation, and possible chemical burns.
Ingestion : May cause irritation to the mouth, throat and stomach. May cause chemical burns to stomach, mouth, nose, and throat.
Skin : May cause moderate irritation. May cause sensitization resulting in irritation, itching and redness.

Aggravated Medical Conditions
Pre-existing eye, skin and respiratory disorders may be aggravated by exposure.

Chronic Health Effects
May aggravate persons sensitized to amines. Prolonged skin contact may cause irritation, burns or dermatitis. Polyamines are reported to cause liver and kidney damage in experimental animals on prolonged and repeated overexposure. Carbon black is classified by IARC to be a known animal carcinogen and a possible human carcinogen (Group 2B). Carbon black is encapsulated by resin and not expected to have adverse effects unless made airborne. Animal studies have shown adverse effects in the pancreas, liver, thyroid and eyes caused by diethyltoluenediamine (DETDA). In rare instances, sensitization to DETDA has been reported to occur in humans. Prolonged and repeated exposure to excessive airborne concentrations of talc can result in scarring of the lungs (pneumoconiosis) or the covering of the lungs (pleural thickening). Fillers are encapsulated and not expected to be released from product under normal conditions of use.

Target Organs : Skin, Eye, Lung
SECTION 3 - PRODUCT COMPOSITION

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bis (2-propylheptyl) phthalate</td>
<td>53306-54-0</td>
<td>40.0 - 70.0</td>
</tr>
<tr>
<td>Talc</td>
<td>14807-96-6</td>
<td>10.0 - 30.0</td>
</tr>
<tr>
<td>Polyether polyol</td>
<td>25723-16-4</td>
<td>10.0 - 30.0</td>
</tr>
<tr>
<td>Diethyltoluenediamine</td>
<td>68479-98-1</td>
<td>5.0 - 10.0</td>
</tr>
<tr>
<td>Propoxylated Amine</td>
<td>102-60-3</td>
<td>3.0 - 7.0</td>
</tr>
<tr>
<td>Amorphous silica</td>
<td>7631-86-9</td>
<td>1.0 - 5.0</td>
</tr>
<tr>
<td>Diisodecyl phthalate</td>
<td>26761-40-0</td>
<td>1.0 - 5.0</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>13463-67-7</td>
<td>1.0 - 5.0</td>
</tr>
<tr>
<td>Carbon Black</td>
<td>1333-86-4</td>
<td>0.1 - 1.0</td>
</tr>
</tbody>
</table>

SECTION 4 - FIRST AID MEASURES

Get immediate medical attention for any significant overexposure.

Inhalation: Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention.

Eye contact: Flush with water for 15 minutes. If irritation persists, get medical attention.

Skin contact: Wash area of contact thoroughly with hand cleaner followed by soap and water. If irritation, rash or other disorders develop, get medical attention immediately.

Ingestion: Do not induce vomiting unless advised by a physician. Call nearest Poison Control Center or Physician immediately.

SECTION 5 - FIRE FIGHTING MEASURES

Flash point: > 200 °F, > 93 °C
Method: Not available.
Lower explosion limit: Not available.
Upper explosion limit: Not available.
Autoignition temperature: Not available.
Extinguishing media: If water fog is ineffective, use carbon dioxide, dry chemical or foam.
Hazardous combustion products: Carbon monoxide, carbon dioxide, and nitrogen oxides.
Protective equipment for firefighters: Use accepted fire fighting techniques. Wear full firefighting protective clothing, including self-contained breathing apparatus (SCBA).
Fire and explosion conditions: Product may ignite if heated in excess of its flash point.
SECTION 6 - ACCIDENTAL RELEASE MEASURES

Stop flow. Contain spill. Keep out of water courses. Absorb spill in sand, earth or other suitable material. Transfer to appropriate container for disposal.

SECTION 7 - HANDLING AND STORAGE

Store under normal warehouse conditions. Handle in compliance with common hygienic practices. Clean hands thoroughly after handling. Prevent inhalation of vapor, ingestion, and contact with skin eyes and clothing. Keep container closed when not in use. Precautions also apply to emptied containers.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protection equipment
Respiratory protection: Use full engineering controls before relying on personal protective equipment. Wear NIOSH/MSHA approved vapor respirator with appropriate cartridge when the vapor concentration is expected to exceed exposure limits indicated on the MSDS. Follow manufacturer's directions for respirator use.

Hand protection: Protect hands with impervious gloves.

Eye protection: Wear chemical safety goggles and/or face shield to prevent eye contact. Do not wear contact lenses. Do not touch eyes with contaminated body parts or materials. Have eye washing facilities readily available.

Protective measures: Use professional judgment in the selection, care, and use.

Engineering measures: Use local exhaust when the general ventilation is inadequate.

Exposure Limits

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>Regulation</th>
<th>Limit</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Talc</td>
<td>14807-96-6</td>
<td>ACGIH TWA:</td>
<td>2 mg/m³</td>
<td>Respirable fraction.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA TWA:</td>
<td>0.1 mg/m³</td>
<td>Respirable.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA TWA:</td>
<td>0.3 mg/m³</td>
<td>Total dust.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA PEL:</td>
<td>15 mg/m³</td>
<td>Total dust.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA PEL:</td>
<td>5 mg/m³</td>
<td>Respirable fraction.</td>
</tr>
<tr>
<td>Amorphous silica</td>
<td>7631-86-9</td>
<td>ACGIH TWA:</td>
<td>3 mg/m³</td>
<td>Respirable particles.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA TWA:</td>
<td>10 mg/m³</td>
<td>Inhalable particles.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA PEL:</td>
<td>15 mg/m³</td>
<td>Total dust.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA PEL:</td>
<td>5 mg/m³</td>
<td>Respirable fraction.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA TWA:</td>
<td>0.8 mg/m³</td>
<td>Total dust.</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>13463-67-7</td>
<td>ACGIH TWA:</td>
<td>10 mg/m³</td>
<td>Total dust.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA PEL:</td>
<td>15 mg/m³</td>
<td>Total dust.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA TWA:</td>
<td>15 mg/m³</td>
<td>Total dust.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA TWA:</td>
<td>5 mg/m³</td>
<td>Respirable fraction.</td>
</tr>
</tbody>
</table>
**Material Safety Data Sheet**

**QWIKJOINT UVR IRONSTONE PT B - 5 GAL**

**Version 1.0**

**REVISION DATE: 01/10/2013**

**Print Date 01/10/2014**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>Regulation</th>
<th>Limit</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon Black</td>
<td>1333-86-4</td>
<td>ACGIH TWA:</td>
<td>3.5 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA PEL:</td>
<td>3.5 mg/m³</td>
<td>Liquid solution</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA TWA:</td>
<td>15 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA TWA:</td>
<td>5 mg/m³</td>
<td>Respirable fraction.</td>
</tr>
</tbody>
</table>

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

- **Form**: Liquid solution
- **Color**: Dark Gray
- **pH**: Not available.
- **Vapour pressure**: Not available.
- **Vapor density**: Not available.
- **Melting point/range**: Not available.
- **Freezing point**: Not available.
- **Boiling point/range**: Not available.
- **Water solubility**: Not available.
- **Specific Gravity**: 1.1
- **% Volatile Weight**: 0.0 %

**SECTION 10 - REACTIVITY / STABILITY**

- **Substances to avoid**: Acids.
- **Stability**: Stable under normal conditions. Avoid welding arcs, flames or other high temperature sources.
- **Hazardous polymerization**: Will not occur under normal conditions.

**SECTION 11 - TOXICOLOGICAL INFORMATION**

- **Amorphous silica, CAS-No.: 7631-86-9**
  - Acute oral toxicity (LD-50 oral): 22,500 mg/kg (Rat) 15,000 mg/kg (Mouse)
SECTION 12 - ECOLOGICAL INFORMATION

No Data Available

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal Method: Waste not regulated under RCRA. Incinerate at EPA approved facility or dispose of waste in compliance with state and local regulations.

SECTION 14 - TRANSPORTATION / SHIPPING DATA

CFR / DOT:
- Not Regulated

TDG:
- Not Regulated

IMDG:
- Not Regulated

SECTION 15 - REGULATORY INFORMATION

North American Inventories:
- All components are listed or exempt from the TSCA inventory.
- One or more components are listed on the NDSL.

U.S. Federal Regulations:
- SARA 313 Components: None present or none present in regulated quantities.
- SARA 311/312 Hazards: Acute Health Hazard
  Chronic Health Hazard

OSHA Hazardous Components:
- Talc: 14807-96-6
- Amorphous silica: 7631-86-9
- Diisodecyl phthalate: 26761-40-0
- Titanium dioxide: 13463-67-7
- Carbon Black: 1333-86-4

OSHA Status: Considered hazardous based on the
- Irritant
- Carcinogen
following criteria:

OSHA Flammability : Not Regulated

When appropriately mixed with the other part, product has a VOC less water and exempt solvent of: 0 g/l

Chemical is listed as an IARC, NTP, OSHA, or ACGIH Carcinogen:
Carbon Black 1333-86-4

U.S. State Regulations:

MASS RTK Components : Talc 14807-96-6
Amorphous silica 7631-86-9
Titanium dioxide 13463-67-7
Crystalline Silica (Quartz)/ Silica Sand 14808-60-7

Penn RTK Components : Bis (2-propylheptyl) phthalate 53306-54-0
Talc 14807-96-6
Polyether polyol 25723-16-4
Diethyltoluenediamine 68479-98-1
Propoxylated Amine 102-60-3
Amorphous silica 7631-86-9
Diisodecyl phthalate 26761-40-0
Titanium dioxide 13463-67-7

NJ RTK Components : Bis (2-propylheptyl) phthalate 53306-54-0
Talc 14807-96-6
Polyether polyol 25723-16-4
Diethyltoluenediamine 68479-98-1
Propoxylated Amine 102-60-3
Titanium dioxide 13463-67-7
Carbon Black 1333-86-4

WARNING! Contains chemicals known to the State of California to cause cancer, birth defects and/or other reproductive harm:
26761-40-0 Diisodecyl phthalate
13463-67-7 Titanium dioxide
1333-86-4 Carbon Black
68515-49-1 Diisodecyl phthalate (mixed Is)

SECTION 16 - OTHER INFORMATION

HMIS Rating :

<table>
<thead>
<tr>
<th>Health</th>
<th>1</th>
<th>0 = Minimum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability</td>
<td>1</td>
<td>1 = Slight</td>
</tr>
<tr>
<td>Reactivity</td>
<td>0</td>
<td>2 = Moderate</td>
</tr>
<tr>
<td>PPE</td>
<td></td>
<td>3 = Serious</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4 = Severe</td>
</tr>
</tbody>
</table>
Further information:
For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.

Prepared by: Rich Mikol

Legend
ACGIH - American Conference of Governmental Hygienists
CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act
DOT - Department of Transportation
DSL - Domestic Substance List
EPA - Environmental Protection Agency
HMIS - Hazardous Materials Information System
IARC - International Agency for Research on Cancer
MSHA - Mine Safety Health Administration
NDSL - Non-Domestic Substance List
NIOSH - National Institute for Occupational Safety and Health
NTP - National Toxicology Program
OSHA - Occupational Safety and Health Administration
PEL - Permissible Exposure Limit
RCRA - Resource Conservation and Recovery Act
RTK - Right To Know
SARA - Superfund Amendments and Reauthorization Act
STEL - Short Term Exposure Limit
TLV - Threshold Limit Value
TSCA - Toxic Substances Control Act
TWA - Time Weighted Average
V - Volume
VOC - Volatile Organic Compound
WHMIS - Workplace Hazardous Materials Information System