1. Identification

Product identifier: OCAL Patching Compound - Green

Other means of identification:
- SDS number: SDS-00079-CA
- Product code: PATCHP-GN
- Recommended use: Vinyl Resin Coating
- Recommended restrictions: None known.

Manufacturer/Importer/Supplier/Distributor information:
- Company name: ABB Installation Products Inc.
- Address: 860 Ridge Lake Blvd.
  Memphis, TN 38120
  USA
- Telephone: 901-252-5000 ext. 8324
- Emergency telephone:
  CHEMTREC - 24 HOURS:
  +1-800-424-9300 (Toll-free)
  +1 703-741-5970

2. Hazard identification

Physical hazards: Not classified.

Health hazards: Not classified.

Label elements:
- Hazard symbol: None.
- Signal word: None.
- Hazard statement: The mixture does not meet the criteria for classification.

Precautionary statement:
- Prevention: Observe good industrial hygiene practices.
- Response: Wash hands after handling.
- Storage: Store away from incompatible materials.
- Disposal: Dispose of waste and residues in accordance with local authority requirements.

Supplemental information: None.

Other hazards: None known.

3. Composition/information on ingredients

Mixtures:

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td></td>
<td>13463-67-7</td>
<td>0.1 - 1</td>
</tr>
</tbody>
</table>

Composition comments:
The exact concentrations of the above listed chemicals are being withheld as a trade secret. All concentrations are in percent by volume unless otherwise indicated. Components not listed are either non-hazardous or are below reportable limits.

4. First-aid measures

Inhalation: Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact: Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact: Rinse with water. Get medical attention if irritation develops and persists.

Ingestion: Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed: Direct contact with eyes may cause temporary irritation.
Indication of immediate medical attention and special treatment needed

Treat symptomatically.

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media

Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Containers may explode when heated. During fire, hazardous combustion products are released that may include: Carbon oxides. Toxic fumes.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Cool containers exposed to flames with water until well after the fire is out. Prevent runoff from fire control or dilution from entering streams, sewers or drinking water supply.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Ensure adequate ventilation. In case of spills, beware of slippery floors and surfaces. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Avoid breathing mist or vapour. Avoid contact with eyes, skin, and clothing. Do not ingest. Use with adequate ventilation. Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored, and processed. Wash hands thoroughly after handling. In case of spills, beware of slippery floors and surfaces. Wear appropriate personal protective equipment (See Section 8). Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Store in original container. Protect from direct sunlight. Protect from freezing. Keep container tightly closed and sealed until ready for use. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store away from incompatible materials (see section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

<table>
<thead>
<tr>
<th>US- ACGIH Threshold Limit Values</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Components</td>
<td>TWA</td>
<td>10 mg/m3</td>
</tr>
<tr>
<td>Titanium dioxide (CAS 13463-67-7)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Canada. Alberta OELs (Occupational Health &amp; Safety Code, Schedule 1, Table 2)</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
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<tr>
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<table>
<thead>
<tr>
<th>Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Components</td>
<td>TWA</td>
<td>3 mg/m3</td>
<td>Respirable fraction.</td>
</tr>
<tr>
<td>Titanium dioxide (CAS 13463-67-7)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 mg/m³</td>
<td>Total dust.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide (CAS 13463-67-7)</td>
<td>TWA</td>
<td>10 mg/m³</td>
</tr>
</tbody>
</table>

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide (CAS 13463-67-7)</td>
<td>TWA</td>
<td>10 mg/m³</td>
</tr>
</tbody>
</table>

Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide (CAS 13463-67-7)</td>
<td>TWA</td>
<td>10 mg/m³</td>
<td>Total dust.</td>
</tr>
</tbody>
</table>

Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide (CAS 13463-67-7)</td>
<td>15 minute</td>
<td>20 mg/m³</td>
</tr>
<tr>
<td>8 hour</td>
<td>10 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles). Wear face shield if there is risk of splashes.

Skin protection

Hand protection

Wear appropriate chemical resistant gloves. Nitrile, butyl rubber or neoprene gloves are recommended. Other suitable gloves can be recommended by the glove supplier.

Other

Wear suitable protective clothing. Selection of specific items such as boots, apron, or full body suit will depend on task.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. Selection and use of respiratory protective equipment should be in accordance with CSA Standard Z94.4. Check with respiratory protective equipment suppliers.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state

Liquid.

Form

Liquid.

Colour

Green.

Odour

Characteristic.

Odour threshold

Not available.

pH

Not available.

Melting point/freezing point

Not available.

Initial boiling point and boiling range

> 100 °C (> 212 °F)

Flash point

> 100 °C (> 212 °F)

Evaporation rate

Not available.
### Flammability (solid, gas)

- Not applicable.

### Upper/lower flammability or explosive limits

- **Explosive limit - lower (%)**
  - Not available.
- **Explosive limit – upper (%)**
  - Not available.

### Vapour pressure

- Not available.

### Vapour density

- Not available.

### Relative density

- 1.05 (Water=1)

### Solubility(ies)

- **Solubility (water)**
  - Not available.

### Partition coefficient (n-octanol/water)

- Not applicable.

### Auto-ignition temperature

- Not available.

### Decomposition temperature

- Not available.

### Viscosity

- Not available.

### Other information

- **Explosive properties**
  - Not explosive.
- **Oxidising properties**
  - Not oxidising.

### 10. Stability and reactivity

#### Reactivity

- The product is stable and non-reactive under normal conditions of use, storage and transport.

#### Chemical stability

- Material is stable under normal conditions.

#### Possibility of hazardous reactions

- No dangerous reaction known under conditions of normal use.

#### Conditions to avoid

- Protect from freezing. Protect against direct sunlight. Contact with incompatible materials.

#### Incompatible materials

- Strong oxidising agents.

#### Hazardous decomposition products

- Decomposition is not expected under normal conditions of use and storage. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Toxic fumes.

### 11. Toxicological information

#### Information on likely routes of exposure

- **Inhalation**
  - Prolonged inhalation may be harmful.
- **Skin contact**
  - Prolonged skin contact may cause temporary irritation.
- **Eye contact**
  - Direct contact with eyes may cause temporary irritation.
- **Ingestion**
  - May cause discomfort if swallowed.

#### Symptoms related to the physical, chemical and toxicological characteristics

- Direct contact with eyes may cause temporary irritation.

#### Information on toxicological effects

- **Acute toxicity**
  - Not expected to be acutely toxic.

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide (CAS 13463-67-7)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>&gt; 5000 mg/kg</td>
</tr>
</tbody>
</table>

- **Skin corrosion/irritation**
  - Prolonged skin contact may cause temporary irritation.

- **Serious eye damage/eye irritation**
  - Direct contact with eyes may cause temporary irritation.

### Respiratory or skin sensitisation

- **Canada - Alberta OELs: Irritant**
  - Titanium dioxide (CAS 13463-67-7) Irritant

- **Respiratory sensitisation**
  - Not a respiratory sensitiser.
This product is not expected to cause skin sensitisation.

Skin sensitisation

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Germ cell mutagenicity

Due to the form of the product, exposure to the potentially carcinogenic components is not expected.

Carcinogenicity

ACGIH Carcinogens
Titanium dioxide (CAS 13463-67-7) A4 Not classifiable as a human carcinogen.

Canada - Manitoba OELs: carcinogenicity
Titanium dioxide (CAS 13463-67-7) Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity
Titanium dioxide (CAS 13463-67-7) 2B Possibly carcinogenic to humans.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - single exposure
Not classified.

Specific target organ toxicity - repeated exposure
Not classified.

Aspiration hazard
Not an aspiration hazard.

12. Ecological information

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Ecotoxicity

Components | Species | Test Results
--- | --- | ---
Titanium dioxide (CAS 13463-67-7) | Aquatic | 
Acute | Crustacea | EC50 | Daphnia magna | > 100 mg/l, 48 Hours
Fish | LL50 | Oryzias latipes | > 100 mg/l, 96 Hours

Persistence and degradability
No data is available on the degradability of this product.

Bioaccumulative potential
No data available on bioaccumulation.

Mobility in soil
No data available for this product.

Other adverse effects
No data available.

13. Disposal considerations

Disposal instructions
Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Local disposal regulations
Dispose in accordance with all applicable regulations.

Hazardous waste code
The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products
Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging
Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

TDG
Not regulated as dangerous goods.

IATA
Not regulated as dangerous goods.

IMDG
Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not established.
15. Regulatory information

Canadian regulations
This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

**Controlled Drugs and Substances Act**
Not regulated.

**Export Control List (CEPA 1999, Schedule 3)**
Not listed.

**Greenhouse Gases**
Not listed.

**Precursor Control Regulations**
Not regulated.

International regulations

**Stockholm Convention**
Not applicable.

**Rotterdam Convention**
Not applicable.

**Kyoto Protocol**
Not applicable.

**Montreal Protocol**
Not applicable.

**Basel Convention**
Not applicable.

International Inventories

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Industrial Chemicals (AICIS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>No</td>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>Yes</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>Yes</td>
</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Taiwan</td>
<td>Taiwan Chemical Substance Inventory (TCSI)</td>
<td>Yes</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)*

*A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).*

16. Other information

**Issue date**
15-October-2021

**Revision date**
-

**Version No.**
01

**Disclaimer**
ABB Installation Products Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user’s responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.