1. Identification

1.1. Product Identifier

Product Name

PANELTACK HM BLACK

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use

Adhesives and/or sealants.

Uses advised against

No information available

1.3. Details of the supplier of the safety data sheet

Responsible Party

Bostik Inc.

11320 W. Watertown Plank Road

Wauwatosa, Wisconsin 53226 USA

Phone: +1 (800) 843-0844 (Domestic Toll Free)

Phone: +1 (414) 774-2250 (International)

Fax: +1 (414) 774-8075

E-mail msds@bostik.com

Manufacturer

Bostik SA

420 rue d’Estienne d’Orves

92700 Colombes

FRANCE

Tel: +33 (0) 1 49 00 90 00

1.4. Emergency telephone number

Telephone: 1-800-227-0332

(Outside U.S.) 1-703-527-3887

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Not a dangerous substance or mixture according to OSHA 29 CFR 1910.1200.

2.2. Label Elements

EMERGENCY OVERVIEW

| Appearance | Paste |
| Physical State | Liquid |
| Odor | No information available |

Precautionary Statements - Prevention

Not applicable

Precautionary Statements - Response

Not applicable

Precautionary Statements - Storage

Not applicable

Precautionary Statements - Disposal

Not applicable
Hazard identification

2.3. Other information

May be harmful in contact with skin. Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing.

Section 3: Composition/Information on Ingredients

3.1. Substances

Not applicable

3.2. Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbonic acid, calcium salt (1:1)</td>
<td>471-34-1</td>
<td>30 - 60</td>
</tr>
<tr>
<td>Trimethoxyvinylsilane</td>
<td>2768-02-7</td>
<td>1 - 5</td>
</tr>
<tr>
<td>1-Propanamine, 3-(trimethoxysilyl)</td>
<td>13822-56-5</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Calcium stearate</td>
<td>1592-23-0</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Carbon black</td>
<td>1333-86-4</td>
<td>0.1 - 1</td>
</tr>
</tbody>
</table>

*The exact percentage (concentration) of composition has been withheld as a trade secret.

Section 4: First Aid Measures

4.1. Description of first aid measures

Eye contact
Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If eye irritation persists: Get medical advice/attention.

Skin contact
Wash off immediately with soap and plenty of water. In the case of skin irritation or allergic reactions see a physician.

Inhalation
Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Ingestion
If swallowed, rinse mouth with water (only if the person is conscious). If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms
None known.

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians
Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing. Treat symptomatically.

4.4. Reference to Other Sections

Reference to other sections
Section 8: Exposure Controls/Personal Protection
Section 11: Toxicology Information

Section 5: Fire-Fighting Measures
5.1. Extinguishing media

Suitable extinguishing media
Carbon dioxide (CO2). Extinguishing powder. Water spray or fog. Alcohol resistant foam.

Unsuitable extinguishing media
Strong water jet.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical

Hazardous combustion products Carbon monoxide. Carbon dioxide (CO2).

Explosion Data
- Sensitivity to mechanical impact: None.
- Sensitivity to static discharge: None.

5.3. Advice for firefighters

Special protective actions for fire-fighters
Do not allow run-off from fire-fighting to enter drains or water courses. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions
Use personal protection equipment. Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling.

6.2. Environmental precautions

Environmental precautions
Prevent entry into waterways, sewers, basements or confined areas. Do not allow to enter into soil/subsoil. See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment
Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

Methods for cleaning up
Use personal protective equipment as required. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly.

6.4. Reference to other sections

Reference to other sections
Section 7: HANDLING AND STORAGE
Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION
Section 13: DISPOSAL CONSIDERATIONS

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling
Use personal protective equipment as required. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Avoid
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contact with skin, eyes or clothing. Wash hands thoroughly after handling. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions
Keep away from food, drink and animal feeding stuffs. Protect from sunlight. Store in a well-ventilated place. Keep at temperatures between 41 and 95 °F. Protect from moisture. Product cures with moisture.

Incompatible materials
Water.

7.3. Specific end use(s)

Specific Use(s)
Adhesives and/or sealants. Sealant.

Other information
No information available.

7.4. References to Other Sections

Reference to other sections
Section 13: DISPOSAL CONSIDERATIONS
Section 10: STABILITY AND REACTIVITY

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure Guidelines
This product contains substances which in their raw state are powder form, however in this product they are in a non-respirable form. Inhalation of powder/dust particles is unlikely to occur from exposure to this product. Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>ACGIH TLV</th>
<th>NIOSH IDLH</th>
<th>OSHA PEL</th>
<th>Mexico</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbonic acid, calcium salt (1:1)</td>
<td>No data available</td>
<td>TWA: 10 mg/m³ total dust</td>
<td>TWA: 5 mg/m³ respirable dust</td>
<td>-</td>
</tr>
<tr>
<td>471-34-1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calcium stearate 1592-23-0</td>
<td>TWA: 10 mg/m³ inhalable particulate matter except stearates of toxic metals TWA: 3 mg/m³ respirable particulate matter except stearates of toxic metals</td>
<td>-</td>
<td>-</td>
<td>TWA: 10 mg/m³</td>
</tr>
<tr>
<td>Carbon black 1333-86-4</td>
<td>TWA: 3 mg/m³ inhalable particulate matter</td>
<td>IDLH: 1750 mg/m³ TWA: 3.5 mg/m³ TWA: 0.1 mg/m³ Carbon black in presence of Polycyclic aromatic hydrocarbons PAH</td>
<td>TWA: 3.5 mg/m³</td>
<td>TWA: 3 mg/m³</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Argentina</th>
<th>Brazil</th>
<th>Chile</th>
<th>Venezuela</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbonic acid, calcium salt (1:1)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>TWA: 10 mg/m³</td>
</tr>
<tr>
<td>471-34-1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calcium stearate 1592-23-0</td>
<td>TWA: 10 mg/m³</td>
<td>TWA: 10 mg/m³</td>
<td>-</td>
<td>TWA: 10 mg/m³</td>
</tr>
<tr>
<td>Carbon black 1333-86-4</td>
<td>TWA: 3.5 mg/m³</td>
<td>TWA: 3 mg/m³</td>
<td>-</td>
<td>TWA: 3.5 mg/m³</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>ACGIH TLV</th>
<th>NIOSH IDLH</th>
<th>OSHA PEL</th>
<th>Mexico</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl alcohol 67-56-1</td>
<td>STEL: 250 ppm</td>
<td>IDLH: 6000 ppm</td>
<td>TWA: 200 ppm</td>
<td>TWA: 200 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA: 200 ppm</td>
<td>TWA: 200 ppm</td>
<td>TWA: 260 mg/m³</td>
<td>STEL: 250 ppm</td>
</tr>
</tbody>
</table>
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<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Argentina</th>
<th>Brazil</th>
<th>Chile</th>
<th>Venezuela</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl alcohol</td>
<td>TWA: 200 ppm</td>
<td>TWA: 156 ppm</td>
<td>TWA: 175 ppm</td>
<td>Skin</td>
</tr>
<tr>
<td>67-56-1</td>
<td>Skin</td>
<td>TWA: 200 ppm</td>
<td>TWA: 229 mg/m³</td>
<td>Skin</td>
</tr>
<tr>
<td></td>
<td>STEL: 250 ppm</td>
<td>Skin</td>
<td></td>
<td>STEL: 250 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>TWA: 200 ppm</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

OTHER INFORMATION
Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing.

Engineering controls
Showers
Eyewash stations
Ventilation systems.

Personal protective equipment [PPE]

Eye/face protection
Wear safety glasses with side shields (or goggles).

Skin and body protection
Wear suitable chemical resistant gloves. The selection of suitable gloves does not only depend on the material, but also on further marks of quality and various manufacturers.

Respiratory protection
If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General hygiene considerations
Use personal protective equipment as required. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing. Wash hands thoroughly after handling. Take off contaminated clothing and wash before reuse. Regular cleaning of equipment, work area and clothing is recommended.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks • Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>Paste</td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>Black</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Melting point / freezing point</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable for liquids</td>
<td></td>
</tr>
<tr>
<td>Flammability Limit in Air</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper flammability or explosive limits</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Lower flammability or explosive limits</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Vapor density</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Relative density</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Water solubility</td>
<td>Immiscible in water</td>
<td></td>
</tr>
<tr>
<td>Solubility in Other Solvents</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>No information available</td>
<td></td>
</tr>
</tbody>
</table>
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10.1. Reactivity

Product cures with moisture.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Protect from moisture. Product cures with moisture. Keep away from heat, sparks and flames.

10.5. Incompatible materials

Water.

10.6. Hazardous decomposition products

None under normal use conditions.

Section 11: TOXICOLOGY INFORMATION

11.1. Information on toxicological effects

Product Information

In vitro Bovine Corneal Opacity and Permeability tests (BCOP test; OECD 437) have been carried out on this product.

Inhalation

Based on available data, the classification criteria are not met.

Eye contact

The test item induced a mean In-vitro irritancy score \( \leq 3 \), the test item was considered as a test chemical not requiring classification for eye irritation or serious eye damage (UN GHS No Category). By analogy to another tested similar product: No irritation after contact to the eyes. (H319 is void).

Skin contact

Based on available data, the classification criteria are not met.

Ingestion

Based on available data, the classification criteria are not met.

Component Information

Explosive properties

No information available

Oxidizing properties

No information available

9.2. Other information

Softening Point

No information available

Molecular weight

No information available

Solvent content (%)

No information available

Solid content (%)

No information available

Density

1.48 g/cm³

VOC Content (%)

0 g/L

European directive n°2010/75/UE

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

Product cures with moisture.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Protect from moisture. Product cures with moisture. Keep away from heat, sparks and flames.

10.5. Incompatible materials

Water.

10.6. Hazardous decomposition products

None under normal use conditions.

Component Information

Autoignition temperature

No information available

Decomposition temperature

No information available

Kinematic viscosity

No information available

Dynamic viscosity

7000 - 13000 Pa.s

@ 20 °C

Solvent content (%)

No information available

Solid content (%)

No information available

Density

1.48 g/cm³

VOC Content (%)

0 g/L

European directive n°2010/75/UE

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

Product cures with moisture.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Protect from moisture. Product cures with moisture. Keep away from heat, sparks and flames.

10.5. Incompatible materials

Water.

10.6. Hazardous decomposition products

None under normal use conditions.

Component Information

Autoignition temperature

No information available

Decomposition temperature

No information available

Kinematic viscosity

No information available

Dynamic viscosity

7000 - 13000 Pa.s

@ 20 °C

Explosive properties

No information available

Oxidizing properties

No information available

Softening Point

No information available

Molecular weight

No information available

Solvent content (%)

No information available

Solid content (%)

No information available

Density

1.48 g/cm³

VOC Content (%)

0 g/L

European directive n°2010/75/UE
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Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
---------------|-----------|-------------|----------------|
Carbonic acid, calcium salt (1:1) | LD50 > 2000 mg/kg (Rattus) | LD50 > 2000 mg/kg (Rattus) | LC50 (4h) > 3 mg/ml (Rattus) |
Trimehthoxyvinylsilane | LD50 = 7120 - 7236 mg/kg (Rattus) | = 3360 µL/kg (Oryctolagus cuniculus) | LC50 (4hr) 16.8 mg/l (Rattus) |
1-Propanamine, 3-(trimethoxysilyl)-13822-56-5 | LD50 (Rattus) > 2000 mg/kg (2.97 ml/kg) (OECD 401) | LD50 (Oryctolagus cuniculus) > 2000 mg/kg 11.3 ml/kg) | - |
Calcium stearate | > 10 g/kg (Rattus) | - | - |
Carbon black | LD50 > 8000 mg/kg (Rattus) | > 3 g/kg (Oryctolagus cuniculus) | - |

Symptoms
No information available.

Skin corrosion/irritation
No information available.

Serious eye damage/eye irritation
By analogy to another tested similar product: No irritation after contact to the eyes. (H319 is void).

Irritation
No information available.

Corrosivity
No information available.

Sensitization
No information available.

Germ cell mutagenicity
No information available.

Reproductive toxicity
No information available.

Developmental toxicity
No information available.

Teratogenicity
No information available.

STOT - single exposure
No information available.

STOT - repeated exposure
No information available.

Chronic Toxicity
No information available.

Target organ effects
No information available.

Aspiration hazard
Not applicable.

Carcinogenicity
The table below indicates whether each agency has listed any ingredient as a carcinogen. As Carbon black (1333-86-4) is inextricably bound in the polymer matrix, it is not expected to be available as an airborne hazard (dust, mist, or spray) under normal condition of uses.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon black</td>
<td>A3</td>
<td>Group 2B</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>1333-86-4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

ACGIH (American Conference of Governmental Industrial Hygienists)
A3 - Confirmed animal carcinogen with unknown relevance to humans

IARC (International Agency for Research on Cancer)
Group 2B - Possibly Carcinogenic to Humans

OSHA (Occupational Safety and Health Administration of the US Department of Labor)
X - Present

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Harmful to aquatic life

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Toxicity to Microorganisms</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbonic acid, calcium salt (1:1)</td>
<td>IC50 72H Algae &gt;1000 mg/l</td>
<td>CL50 96H &gt;1000 mg/l</td>
<td>EC50 48H Daphnia &gt;1000 mg/l</td>
<td></td>
</tr>
<tr>
<td>Trimehthoxyvinylsilane</td>
<td>EC 50 (72h) &gt; 957 mg/l</td>
<td>LC50 (96h) = 191 mg/l</td>
<td>EC50(48hr) 168.7 mg/l</td>
<td></td>
</tr>
</tbody>
</table>
12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

There is no data for this product.

12.4. Mobility in soil

No information available.

Other adverse effects

No information available

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Disposal of Wastes

It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Contaminated packaging

Dispose of in accordance with federal, state and local regulations

Section 14: TRANSPORT INFORMATION

DOT

Not regulated

IATA

Not regulated

IMDG

Not regulated

Section 15: REGULATORY INFORMATION

Global Inventories

TSCA | Listed
DSL | Not Listed

Legend:
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL - Canadian Domestic Substances List
Listed - The components of this product are either listed or exempt from listing on inventory.
Not Listed - One or more components of this product are not listed on inventory.
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United States of America

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories
Classification is shown in section 2 of this SDS

Europe

Restrictions of Use of Hazardous Substances (RoHS) Directive 2011/65/EU
This product does not contain Lead (7439-92-1), Cadmium (7440-43-9), Mercury (7439-97-6), Hexavalent chromium (7440-47-3), Polybrominated biphenyls (PBB), and Polybrominated diphenyl ethers (PBDE) above the regulated limit mentioned in this regulation

SVHC: Substances of Very High Concern for Authorization:
This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Section 16: OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet
No information available

Key Literature References and Sources for Data
No information available

Prepared By
Product Safety & Regulatory Affairs

Revision date
23-Apr-2020

Revision note
Not applicable.

Training Advice
When working with hazardous materials, regular training of operators is required by law

Further information
No information available

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet