1. Identification

Product identifier used on the label

dcovio® M2351

Recommended use of the chemical and restriction on use
Recommended use*: for industrial processing only

* The “Recommended use” identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the supplier of the safety data sheet

Company:
BASF Canada Inc.
100 Milverton Drive
Mississauga, ON L5R 4H1, CANADA

Telephone: +1 289 360-1300

Emergency telephone number

CANUTEC (reverse charges): (613) 996-6666
BASF HOTLINE: (800) 454-COPE (2673)

Other means of identification
Chemical family: Preparation based on: polyester, modified

2. Hazards Identification

According to Hazardous Products Regulations (HPR) (SOR/2015-17)

Classification of the product

No need for classification according to GHS criteria for this product.

Label elements

The product does not require a hazard warning label in accordance with GHS criteria.

Hazards not otherwise classified
No specific dangers known, if the regulations/notes for storage and handling are considered.

Labeling of special preparations (GHS):
This product is not combustible in the form in which it is shipped by the manufacturer, but may form a combustible dust through downstream activities (e.g. grinding, pulverizing) that reduce its particle size.

3. Composition / Information on Ingredients

According to Hazardous Products Regulations (HPR) (SOR/2015-17)

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Weight %</th>
<th>Chemical name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1317-65-3</td>
<td>&gt;= 10.0 - &lt; 30.0%</td>
<td>Limestone</td>
</tr>
<tr>
<td>14807-96-6</td>
<td>&gt;= 5.0 - &lt; 10.0%</td>
<td>talc</td>
</tr>
</tbody>
</table>

4. First-Aid Measures

Description of first aid measures

General advice:
Remove contaminated clothing.

If inhaled:
After inhalation of decomposition products, remove the affected person to a source of fresh air and keep calm. Provide medical aid. If difficulties occur after dust has been inhaled, remove to fresh air and seek medical attention.

If on skin:
Areas affected by molten material should be quickly placed under cold running water. Burns caused by molten material require hospital treatment. Seek medical assistance for removal of adhering material.

If in eyes:
In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. If irritation develops, seek medical attention.

If swallowed:
Rinse mouth and then drink 200-300 ml of water. If difficulties occur: Seek medical attention. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

Most important symptoms and effects, both acute and delayed

Symptoms: No significant reaction of the human body to the product known.
Hazards: No hazard is expected under intended use and appropriate handling.

Indication of any immediate medical attention and special treatment needed

Note to physician
Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.
5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:
- water spray
- foam
- dry powder
- carbon dioxide

Unsuitable extinguishing media for safety reasons:
- water jet

Special hazards arising from the substance or mixture

Hazards during fire-fighting:
- carbon monoxide
- carbon dioxide
- tetrahydrofuran
- fumes/smoke
- carbon black
- harmful vapours

Formation of further decomposition and oxidation products depends upon the fire conditions. Under special fire conditions traces of other toxic substances are possible.

Advice for fire-fighters

Protective equipment for fire-fighting:
- Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information:

The degree of risk is governed by the burning substance and the fire conditions. In case of combustion evolution of toxic gases/vapours possible. Dusty conditions may ignite explosively in the presence of an ignition source causing flash fire. When large quantities of solid substance/product are involved, melting may occur, in which condition, application of water may cause extensive scattering of molten material. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. Accidental release measures

Further accidental release measures:

High risk of slipping due to leakage/spillage of product. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Avoid the formation and build-up of dust - danger of dust explosion. Dust in sufficient concentration can result in an explosive mixture in air. Handle to minimize dusting and eliminate open flame and other sources of ignition.

Personal precautions, protective equipment and emergency procedures

Avoid inhalation. Sources of ignition should be kept well clear.

Environmental precautions

No special precautions necessary.

Methods and material for containment and cleaning up

- For small amounts: Sweep/shovel up.
- For large amounts: Sweep/shovel up. Vacuum up spilled product.
- Avoid raising dust. Nonsparking tools should be used. Ensure adequate ventilation. After decontamination, spill area can be washed with water.

7. Handling and Storage

Precautions for safe handling

Processing machines must be fitted with local exhaust ventilation. When working on exaust systems special safety precautions must be taken, because dangerous substances can accumulate in the
residue of the exaust system. Avoid the formation and deposition of dust. Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:
Avoid dust formation. Dust in sufficient concentration can result in an explosive mixture in air. Handle to minimize dusting and eliminate open flame and other sources of ignition. Provide exhaust ventilation. When the product is ground (chopped), dust explosion regulations should be noted. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids (2013 Edition) for safe handling. If ignition sources are present, there is danger of fire breaking out and spreading.

**Conditions for safe storage, including any incompatibilities**
Segregate from strong oxidizing agents.

Suitable materials for containers: Carbon steel (Iron), High density polyethylene (HDPE), Low density polyethylene (LDPE), Polypropylene (PP)

Further information on storage conditions: Protect against moisture. Avoid extreme heat. Avoid all sources of ignition: heat, sparks, open flame. Keep container tightly closed and dry; store in a cool place. Avoid direct sunlight. Storage together with other substances, especially hazardous substances, must be avoided.

Storage stability:
Avoid prolonged storage at high temperatures.

### 8. Exposure Controls/Personal Protection

**Components with occupational exposure limits**

<table>
<thead>
<tr>
<th>Component</th>
<th>OSHA PEL</th>
<th>TWA value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limestone</td>
<td>PEL 5 mg/m³ Respirable fraction ; PEL 15 mg/m³ Total dust ; TWA value 5 mg/m³ Respirable fraction ; TWA value 15 mg/m³ Total dust ;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Talc</td>
<td>OSHA PEL</td>
<td>TWA value 2 mg/m³ Respirable dust ; TWA value 20 millions of particles per cubic foot of air ; TWA value 2.4 millions of particles per cubic foot of air Respirable ;</td>
<td>The exposure limit is calculated from the equation, 250/(%SiO₂+5), using a value of 100% SiO₂. Lower percentages of SiO₂ will yield higher exposure limits. TWA value 0.1 mg/m³ Respirable ; The exposure limit is calculated from the equation, 10mg/m³/(%SiO₂+2), using a value of 100% SiO₂. Lower percentages of SiO₂ will yield higher exposure limits.</td>
</tr>
<tr>
<td>ACGIH TLV</td>
<td>TWA value 2 mg/m³ Respirable fraction ;</td>
<td>The value is for particulate matter containing no asbestos and &lt;1% crystalline silica.</td>
<td></td>
</tr>
</tbody>
</table>


Advice on system design:
Provide exhaust ventilation at sources when processing molten product. Provide local exhaust ventilation to control dusts/vapours. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Use only appropriately classified electrical equipment and powered industrial trucks. It is recommended to control the adherence of the DNEL/DMEL-values by measurements.

Personal protective equipment

Respiratory protection:
Breathing protection if dusts are formed. Wear respiratory protection if ventilation is inadequate. Respiratory protection may not be required under normal operating conditions if adequate ventilation is provided.

Hand protection:
Chemical resistant protective gloves, Use additional heat protection gloves when handling hot molten masses (EN 407), e.g. of textile or leather.

Eye protection:
Safety glasses with side-shields. Wear splash goggles to protect from hot molten substance/product.

Body protection:
Body protection must be chosen based on level of activity and exposure.

General safety and hygiene measures:
Avoid contact of molten material with skin. Avoid inhalation of dusts/mists/vapours. Eye wash fountains and safety showers must be easily accessible. Wearing of closed work clothing is recommended. Hands and/or face should be washed before breaks and at the end of the shift.

9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>pellets</td>
</tr>
<tr>
<td>Odour</td>
<td>faint specific odour, product specific</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>not determined</td>
</tr>
<tr>
<td>Colour</td>
<td>natural</td>
</tr>
<tr>
<td>pH value</td>
<td>7</td>
</tr>
<tr>
<td>Melting range</td>
<td>110 - 120 °C (DIN 53736)</td>
</tr>
<tr>
<td></td>
<td>Based on known data of one component</td>
</tr>
<tr>
<td></td>
<td>150 - 160 °C (DIN 53736)</td>
</tr>
<tr>
<td></td>
<td>Based on known data of one component</td>
</tr>
<tr>
<td>Boiling range</td>
<td>The substance / product decomposes therefore not determined.</td>
</tr>
<tr>
<td>Sublimation point</td>
<td>No applicable information available.</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 280 °C (ASTM D1929)</td>
</tr>
<tr>
<td>Flammability</td>
<td>not highly flammable</td>
</tr>
<tr>
<td>Flammability of Aerosol Products</td>
<td>not applicable, the product does not form flammable aerosoles</td>
</tr>
</tbody>
</table>
Lower explosion limit: For solids not relevant for classification and labelling. As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.

Upper explosion limit: For solids not relevant for classification and labelling. As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.

Autoignition: > 400 °C (ASTM D1929)

Vapour pressure: not applicable

Density: approx. 0.8 - 1.4 g/cm³ (20 °C, 1,013 hPa)

Relative density: approx. 0.8 - 1.4 (20 °C, 1,013 hPa)

Bulk density: approx. 500 - 1,000 kg/m³ (20 °C, 1,013 hPa) (DIN 53466)

Vapour density: not applicable, The product is a non-volatile solid.

Partitioning coefficient n-octanol/water (log Pow): not applicable

Self-ignition temperature: not self-igniting

Thermal decomposition: > 280 °C
To avoid thermal decomposition, do not overheat.

Viscosity, kinematic: not applicable, the product is a solid

Solubility in water: not soluble

Solubility (quantitative): No applicable information available.

Solubility (qualitative): No applicable information available.

Evaporation rate: not applicable, The product is a non-volatile solid.

10. Stability and Reactivity

Reactivity
No hazardous reactions if stored and handled as prescribed/indicated.

Oxidizing properties:
not fire-propagating

Chemical stability
The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions
The product is stable if stored and handled as prescribed/indicated.

Conditions to avoid
Avoid extreme heat. Avoid all sources of ignition: heat, sparks, open flame.
Incompatible materials
chlorinated hydrocarbons, aromatic solvents, strong oxidizing agents

Hazardous decomposition products

Decomposition products:
Possible decomposition products: At prolonged and/or strong thermal stressing above the decomposition temperature dangerous decomposition products can be formed.

Thermal decomposition:
> 280 °C
To avoid thermal decomposition, do not overheat.

11. Toxicological information

Primary routes of exposure
Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

Acute toxicity
Assessment of acute toxicity: Contact with molten product may cause thermal burns. The resin in pelleted form poses a low hazard.
Virtually nontoxic after a single ingestion. The product has not been tested. The statement has been derived from the properties of the individual components.

Oral
Type of value: ATE
Value: > 5,000 mg/kg

Inhalation
Not inhalable due to the physico-chemical properties of the product.

Dermal
Type of value: ATE
Value: > 5,000 mg/kg

Irritation / corrosion
Assessment of irritating effects: Not irritating to the eyes. Not irritating to the skin. Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.
Frequent and prolonged contact can lead to skin irritation.

Sensitization
Assessment of sensitization: Skin sensitizing effects were not observed in animal studies. The product has not been tested. The statement has been derived from the properties of the individual components.

Chronic Toxicity/Effects

Repeated dose toxicity
Assessment of repeated dose toxicity: Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.
Genetic toxicity
Assessment of mutagenicity: Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

Carcinogenicity
Assessment of carcinogenicity: Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

Reproductive toxicity
Assessment of reproduction toxicity: Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

Teratogenicity
Assessment of teratogenicity: Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

Other Information
Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

Symptoms of Exposure
No significant reaction of the human body to the product known.

Medical conditions aggravated by overexposure
Data available do not indicate that there are medical conditions that are generally recognized as being aggravated by exposure to this substance/product.

12. Ecological Information

Toxicity
Aquatic toxicity
Assessment of aquatic toxicity:
There is a high probability that the product is not acutely harmful to aquatic organisms.
The product has not been tested. The statement has been derived from the structure of the product.

Toxicity to fish

*Information on: Polyester, modified*

Aquatic invertebrates

*Information on: Polyester, modified*

Aquatic plants

*Information on: Polyester, modified*
Persistence and degradability

Assessment biodegradation and elimination (H2O)
The product is biodegradable. The product has not been tested. The statement has been derived from the properties of the individual components.

Assessment biodegradation and elimination (H2O)

Bioaccumulative potential

Bioaccumulation potential
Because of the product's consistency and low water solubility, bioavailability is improbable.

Bioaccumulation potential

Additional information

At the present state of knowledge, no negative ecological effects are expected.

13. Disposal considerations

Waste disposal of substance:
This product is not regulated by RCRA. This product is not regulated by CERCLA ('Superfund'). Dispose of in accordance with national, state and local regulations. Do not discharge into waterways or sewer systems without proper authorization.

Container disposal:
Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product. Completely emptied packagings can be given for recycling.
14. Transport Information

Land transport
TDG

Not classified as a dangerous good under transport regulations

Sea transport
IMDG

Not classified as a dangerous good under transport regulations

Air transport
IATA/ICAO

Not classified as a dangerous good under transport regulations

15. Regulatory Information

Federal Regulations

Registration status:
Chemical                DSL, CA released / listed

NFPA Hazard codes:
Health: 1     Fire: 1     Reactivity: 0     Special:

16. Other Information

SDS Prepared by:
BASF NA Product Regulations
SDS Prepared on: 2018/10/12

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

ecovio® M2351 is a registered trademark of BASF Canada or BASF SE
In addition to the information given in the safety data sheet we refer to the product specific ‘Technical Information’.

END OF DATA SHEET