SAFETY DATA SHEET
Cobalt Blue

1. Identification

Product identifier

Product name Cobalt Blue
Product number 418

Recommended use of the chemical and restrictions on use

Application Industrial color

Details of the supplier of the safety data sheet

Supplier Huntsman Pigments Americas LLC
P.O. Box 4980
The Woodlands, TX 77387
+1 301 210 3400 / +1 323 269 7311
MSDS@huntsman.com

Emergency telephone number

Emergency telephone CHEMTREC: (800) 424-9300 (Contract No: 191118)

2. Hazard(s) Identification

Classification of the substance or mixture

Physical hazards Not Classified
Health hazards Not Classified
Environmental hazards Not Classified

Human health May be slightly irritating to eyes. Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases. May be slightly irritating to skin.

Environmental The product is not expected to be hazardous to the environment.

Label elements

Hazard statements NC Not Classified

Other hazards
This product does not contain any substances classified as PBT or vPvB.

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>CAS number: 68187-11-1</th>
<th>REACH registration number: Proprietary</th>
</tr>
</thead>
<tbody>
<tr>
<td>C.I. PIGMENT BLUE 36</td>
<td>60-100%</td>
</tr>
<tr>
<td>Classification</td>
<td>Not Classified</td>
</tr>
</tbody>
</table>
Cobalt Blue

<table>
<thead>
<tr>
<th>Composition</th>
<th>10-30%</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Barium Sulfate</strong></td>
<td></td>
</tr>
<tr>
<td>CAS number: 7727-43-7</td>
<td></td>
</tr>
<tr>
<td>REACH registration number: Proprietary</td>
<td></td>
</tr>
<tr>
<td><strong>Classification</strong></td>
<td>Not Classified</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Composition</th>
<th>&lt;1%</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C.I. PIGMENT BLACK 28</strong></td>
<td></td>
</tr>
<tr>
<td>CAS number: 68186-91-4</td>
<td></td>
</tr>
<tr>
<td>REACH registration number: Proprietary</td>
<td></td>
</tr>
<tr>
<td><strong>Classification</strong></td>
<td>Not Classified</td>
</tr>
</tbody>
</table>

The Full Text for all Hazard Statements are Displayed in Section 16.

**Composition comments**
Not regarded as a health or environmental hazard under current legislation.

4. First-aid measures

**Description of first aid measures**

**Inhalation**
Move affected person to fresh air at once. Get medical attention if any discomfort continues.

**Ingestion**
Do not induce vomiting. Rinse mouth thoroughly with water. Give plenty of water to drink. Keep affected person under observation. Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel. Never give anything by mouth to an unconscious person.

**Skin Contact**
Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.

**Eye contact**
Rinse with water. Get medical attention if any discomfort continues.

**Most important symptoms and effects, both acute and delayed**

**Inhalation**
Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.

**Ingestion**
Due to the physical nature of this material it is unlikely that swallowing will occur.

**Skin contact**
Prolonged contact may cause redness, irritation and dry skin.

**Eye contact**
May cause temporary eye irritation.

**Indication of immediate medical attention and special treatment needed**

**Notes for the doctor**
No specific recommendations.

5. Fire-fighting measures

**Extinguishing media**

**Suitable extinguishing media**
Use fire-extinguishing media suitable for the surrounding fire.

**Special hazards arising from the substance or mixture**

**Specific hazards**
No unusual fire or explosion hazards noted.

**Advice for firefighters**

**Protective actions during firefighting**
N/A
Cobalt Blue

Special protective equipment for firefighters

Use protective equipment appropriate for surrounding materials.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions
Wear protective clothing as described in Section 8 of this safety data sheet.

Environmental precautions
Avoid spreading dust or contaminated materials. Avoid the spillage or runoff entering drains, sewers or watercourses.

Methods and material for containment and cleaning up

Methods for cleaning up
Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like. Avoid generation and spreading of dust.

Reference to other sections
For personal protection, see Section 8.

7. Handling and storage

Precautions for safe handling

Usage precautions
Do not eat, drink or smoke when using the product. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. For pallets wrapped in polyethylene plastic, removal may cause an electrostatic spark; removal of the wrap should not be done in the presence of flammable vapors.

Conditions for safe storage, including any incompatibilities

Storage precautions
Keep container dry.

Specific end use(s)
The identified uses for this product are detailed in Section 1.2.

8. Exposure Controls/personal protection

Ingredient comments
TLV-TWA: 0.012 mg/m3 as Cr (ACGIH 2009) Cobalt Compounds 0.1 mg/m3 8Hr TWA

Exposure controls

Protective equipment

Appropriate engineering controls
Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection
Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Dust-resistant, chemical splash goggles.

Hand protection
Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.

Hygiene measures
Wash hands at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke.

Respiratory protection
Wear NIOSH-certified particulate respirator
### Cobalt Blue

#### 9. Physical and Chemical Properties

**Information on basic physical and chemical properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Dusty powder.</td>
</tr>
<tr>
<td>Color</td>
<td>Blue-green.</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless.</td>
</tr>
<tr>
<td>Initial boiling point and range</td>
<td>Not relevant.</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Insoluble in water.</td>
</tr>
<tr>
<td>Other information</td>
<td>No information required.</td>
</tr>
<tr>
<td>Volatile organic compound</td>
<td>This product contains a maximum VOC content of None.</td>
</tr>
</tbody>
</table>

#### 10. Stability and reactivity

<table>
<thead>
<tr>
<th>Reactivity</th>
<th>There are no known reactivity hazards associated with this product.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stability</td>
<td>Stable at normal ambient temperatures and when used as recommended.</td>
</tr>
<tr>
<td>Possibility of hazardous reactions</td>
<td>Not relevant.</td>
</tr>
<tr>
<td>Conditions to avoid</td>
<td>There are no known conditions that are likely to result in a hazardous situation.</td>
</tr>
<tr>
<td>Materials to avoid</td>
<td>No specific material or group of materials is likely to react with the product to produce a hazardous situation.</td>
</tr>
<tr>
<td>Hazardous decomposition products</td>
<td>Does not decompose when used and stored as recommended.</td>
</tr>
</tbody>
</table>

#### 11. Toxicological information

**Information on toxicological effects**

<table>
<thead>
<tr>
<th>Toxicological effects</th>
<th>No data recorded.</th>
</tr>
</thead>
<tbody>
<tr>
<td>General information</td>
<td>No specific health hazards known.</td>
</tr>
</tbody>
</table>

#### 12. Ecological Information

<table>
<thead>
<tr>
<th>Ecotoxicity</th>
<th>The product is not expected to be hazardous to the environment.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toxicity</td>
<td>Not considered toxic to fish.</td>
</tr>
<tr>
<td>Persistence and degradability</td>
<td>The product is not readily biodegradable.</td>
</tr>
<tr>
<td>Bioaccumulative potential</td>
<td>Bioaccumulation is unlikely to be significant because of the low water-solubility of this product.</td>
</tr>
<tr>
<td>Bio-Accumulative Potential</td>
<td>Bioaccumulation is unlikely to be significant because of the low water-solubility of this product.</td>
</tr>
<tr>
<td>Mobility in soil</td>
<td>The product is insoluble in water.</td>
</tr>
<tr>
<td>Mobility</td>
<td>The product is insoluble in water.</td>
</tr>
</tbody>
</table>
Cobalt Blue

Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB.

Other adverse effects

None known.

13. Disposal considerations

Waste treatment methods

General information
Waste to be treated as controlled waste. Disposal in accordance with federal, state and local regulations.

Disposal methods
Reuse or recycle products wherever possible. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

14. Transport information

General
The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DoT).

UN Number
Not applicable.

UN proper shipping name
Not applicable.

Transport hazard class(es)
Not applicable.

Packing group
Not applicable.

Environmental hazards
Environmentally Hazardous Substance
No.

Special precautions for user
Not applicable.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

15. Regulatory information

US Federal Regulations

SARA 313 Emission Reporting
Chromium compound.
1.0 %
Cobalt compound.
0.1 %

US State Regulations
Cobalt Blue

State Regulations Comments

California Prop 65 Warning: This product contains chemicals, as trace impurities and not intentionally added, known to the state of California to cause cancer (C) and birth defects or other reproductive (R) harm.

Massachusetts "Right To Know" List

CALCIUM CARBONATE
Yes.

Rhode Island "Right To Know" List

CALCIUM CARBONATE
Yes.

Minnesota "Right To Know" List

CALCIUM CARBONATE
Yes.

New Jersey "Right To Know" List

CALCIUM CARBONATE
Yes.

Pennsylvania "Right To Know" List

CALCIUM CARBONATE
Yes.

Inventories

EU - EINECS/ELINCS
EINECS
All the ingredients are listed or exempt.

Canada - DSL/NDSL
All the ingredients are listed or exempt.

US - TSCA
All the ingredients are listed or exempt.

US - TSCA 12(b) Export Notification
No.

16. Other information

Issued by
Product Regulations Dept
Revision date
6/11/2015
Revision
5
Supersedes date
2/12/2014
SDS No.
21269
SDS status
Approved.

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