

# Safety Data Sheet

acc. to OSHA Hazard Communication Standard (29 CFR 1910.1200)

Printing date 06/22/2015

Reviewed on 01/29/2015

## 1 Identification

- **Product identifier**
- **Trade name:** Drierite®
- **Article number:** 125430
- **CAS Number:** 7778-18-9
- **EINECS Number:** 231-900-3
- **Application of the substance / the mixture** Laboratory chemicals for research and development
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
 BeanTown Chemical  
 9 Sagamore Park Road  
 Hudson, NH 03051  
 USA
- **Phone:** (603) 402-2234  
**Fax:** (603) 402-9713  
**Email:** [technical@beantownchem.com](mailto:technical@beantownchem.com)  
[www.beantownchem.com](http://www.beantownchem.com)
- **Information department:** Technical Support Department
- **Emergency telephone number:**  
 During normal operating hours, please call (603) 402-2234  
 After hours, please call Chemtrec at (800) 424-9300

## 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS08 Health hazard

*Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.*

*Carc. 1B H350 May cause cancer.*



GHS07

*Skin Sens. 1 H317 May cause an allergic skin reaction.*

- **Label elements**
- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS08

- **Signal word** *Danger*
- **Hazard-determining components of labeling:**  
 Cobalt(II) chloride
- **Hazard statements**  
*May cause allergy or asthma symptoms or breathing difficulties if inhaled.*  
*May cause an allergic skin reaction.*

(Contd. on page 2)

US

# Safety Data Sheet

*acc. to OSHA Hazard Communication Standard (29 CFR 1910.1200)*

Printing date 06/22/2015

Reviewed on 01/29/2015

**Trade name: Drierite®**

(Contd. of page 1)

*May cause cancer.***· Precautionary statements***Wear respiratory protection.**Avoid breathing dust/fume/gas/mist/vapors/spray**Wear protective gloves.**Specific treatment (see on this label).**Store locked up.**Dispose of contents/container in accordance with local/regional/national/international regulations.***· Other hazards****· Results of PBT and vPvB assessment****· PBT:** *Not applicable.***· vPvB:** *Not applicable.*

### 3 Composition/information on ingredients

**· Description:** *Mixture of the substances listed below with nonhazardous additions.***· Dangerous components:**

7778-18-9	Drierite®	98.0%
7646-79-9	Cobalt(II) chloride	2.0%

### 4 First-aid measures

**· Description of first aid measures****· After inhalation:***Supply fresh air and to be sure call for a doctor.**In case of unconsciousness place patient stably in side position for transportation.***· After skin contact:** *Immediately wash with water and soap and rinse thoroughly.***· After eye contact:** *Rinse opened eye for several minutes under running water.***· After swallowing:** *If symptoms persist consult doctor.***· Information for doctor:****· Most important symptoms and effects, both acute and delayed** *No further relevant information available.***· Indication of any immediate medical attention and special treatment needed***No further relevant information available.*

### 5 Fire-fighting measures

**· Extinguishing media****· Suitable extinguishing agents:***CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.***· Special hazards arising from the substance or mixture** *No further relevant information available.***· Advice for firefighters****· Protective equipment:** *No special measures required.*

### 6 Accidental release measures

**· Personal precautions, protective equipment and emergency procedures** *Not required.***· Environmental precautions:***Do not allow product to reach sewage system or any water course.**Inform respective authorities in case of seepage into water course or sewage system.**Do not allow to enter sewers/ surface or ground water.*

(Contd. on page 3)

# Safety Data Sheet

acc. to OSHA Hazard Communication Standard (29 CFR 1910.1200)

Printing date 06/22/2015

Reviewed on 01/29/2015

Trade name: Drierite®

(Contd. of page 2)

- **Methods and material for containment and cleaning up:**  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.  
Prevent formation of dust.
- **Information about protection against explosions and fires:** Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:**  
Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute
- **Control parameters**

### Components with limit values that require monitoring at the workplace:

#### 7778-18-9 Drierite®

PEL Long-term value: 15\* 5\*\* mg/m<sup>3</sup>  
\*total dust \*\*respirable fraction

REL Long-term value: 10\* 5\*\* mg/m<sup>3</sup>  
\*total dust \*\*respirable fraction

TLV Long-term value: 10\* mg/m<sup>3</sup>  
\*as inhalable fraction

#### 7646-79-9 Cobalt(II) chloride

PEL Long-term value: 0.1\* mg/m<sup>3</sup>  
as Co; \*for metal dust and fume

REL Long-term value: 0.05 mg/m<sup>3</sup>  
as Co; metal dust & fume

TLV Long-term value: 0.02 mg/m<sup>3</sup>  
as Co, BEI

- **Additional information:** The lists that were valid during the creation were used as basis.

(Contd. on page 4)

# Safety Data Sheet

*acc. to OSHA Hazard Communication Standard (29 CFR 1910.1200)*

Printing date 06/22/2015

Reviewed on 01/29/2015

**Trade name: Drierite®**

(Contd. of page 3)

- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
*Keep away from foodstuffs, beverages and feed.  
 Immediately remove all soiled and contaminated clothing.  
 Wash hands before breaks and at the end of work.  
 Store protective clothing separately.*
- **Breathing equipment:**  
*In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.*
- **Protection of hands:**  
*Protective gloves  
 The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
 Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
 Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation*
- **Material of gloves**  
*The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.*
- **Penetration time of glove material**  
*The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.*
- **Eye protection:** *Tightly sealed goggles*

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

<b>Form:</b>	Granulate
<b>Color:</b>	According to product specification
- **Odor:** Characteristic
- **Odour threshold:** Not determined.
- **pH-value:** Not applicable.
- **Change in condition**

<b>Melting point/Melting range:</b>	Undetermined
<b>Boiling point/Boiling range:</b>	Undetermined
- **Flash point:** Not applicable.
- **Flammability (solid, gaseous):** Not determined.
- **Ignition temperature:**
- **Decomposition temperature:** Not determined.
- **Auto igniting:** Product is not selfigniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**

<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.

(Contd. on page 5)

# Safety Data Sheet

acc. to OSHA Hazard Communication Standard (29 CFR 1910.1200)

Printing date 06/22/2015

Reviewed on 01/29/2015

Trade name: Drierite®

(Contd. of page 4)

· <b>Vapor pressure:</b>	Not applicable.
· <b>Density:</b>	Not determined.
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not applicable.
· <b>Evaporation rate</b>	Not applicable.
· <b>Solubility in / Miscibility with Water:</b>	Insoluble.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not applicable.
<b>Kinematic:</b>	Not applicable.
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	0.0 %
<b>Solids content:</b>	100.0 %
· <b>Other information</b>	No further relevant information available.

## 10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

7646-79-9 Cobalt(II) chloride

Oral	LD50	80 mg/kg (rat)
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- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:**
- Sensitization possible through inhalation.
- Sensitization possible through skin contact.
- **Additional toxicological information:**
- The product shows the following dangers according to internally approved calculation methods for preparations:
- Harmful
- Irritant

(Contd. on page 6)

US

# Safety Data Sheet

acc. to OSHA Hazard Communication Standard (29 CFR 1910.1200)

Printing date 06/22/2015

Reviewed on 01/29/2015

Trade name: **Drierite®**

(Contd. of page 5)

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

7646-79-9 | Cobalt(II) chloride

2B

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

## 12 Ecological information

- **Toxicity**

- **Aquatic toxicity:** No further relevant information available.

- **Persistence and degradability** No further relevant information available.

- **Behavior in environmental systems:**

- **Bioaccumulative potential** No further relevant information available.

- **Mobility in soil** No further relevant information available.

- **Ecotoxicological effects:**

- **Remark:** Harmful to fish

- **Additional ecological information:**

- **General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Harmful to aquatic organisms

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**

- **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- **UN-Number**

- **DOT, ADN, IMDG, IATA**

not regulated

- **UN proper shipping name**

- **DOT, ADN, IMDG, IATA**

not regulated

- **Transport hazard class(es)**

- **DOT, ADN, IMDG, IATA**

- **Class**

not regulated

(Contd. on page 7)

US

# Safety Data Sheet

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Reviewed on 01/29/2015

Trade name: **Drierite®**

(Contd. of page 6)

- |  |                        |
|--|------------------------|
| · <b>Packing group</b>   |                        |
| · <b>DOT, IMDG, IATA</b>   | <i>not regulated</i>   |
| · <b>Environmental hazards:</b>  |                        |
| · <b>Marine pollutant:</b>   | <i>Yes</i>             |
| · <b>Special precautions for user</b>  | <i>Not applicable.</i> |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | <i>Not applicable.</i> |
| · <b>UN "Model Regulation":</b>  | -                      |

## 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

· <b>Section 355 (extremely hazardous substances):</b>
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<i>None of the ingredients is listed.</i>
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· <b>Section 313 (Specific toxic chemical listings):</b>
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7646-79-9   Cobalt(II) chloride
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· <b>TSCA (Toxic Substances Control Act):</b>
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<i>All ingredients are listed.</i>
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· <b>Proposition 65</b>
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· <b>Chemicals known to cause cancer:</b>
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<i>None of the ingredients is listed.</i>
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· <b>Chemicals known to cause reproductive toxicity for females:</b>
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<i>None of the ingredients is listed.</i>
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· <b>Chemicals known to cause reproductive toxicity for males:</b>
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<i>None of the ingredients is listed.</i>
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· <b>Chemicals known to cause developmental toxicity:</b>
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<i>None of the ingredients is listed.</i>
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· <b>Carcinogenic categories</b>
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· <b>EPA (Environmental Protection Agency)</b>
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<i>None of the ingredients is listed.</i>
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· <b>TLV (Threshold Limit Value established by ACGIH)</b>
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<i>None of the ingredients is listed.</i>
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· <b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b>
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<i>None of the ingredients is listed.</i>
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· <b>RTECS</b>
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<i>None of the ingredients is listed.</i>
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· <b>National regulations:</b>
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· <b>Information about limitation of use:</b>
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<i>Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.</i>
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(Contd. on page 8)

# Safety Data Sheet

*acc. to OSHA Hazard Communication Standard (29 CFR 1910.1200)*

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Reviewed on 01/29/2015

Trade name: **Drierite®**

(Contd. of page 7)

· **Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

## 16 Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

· **NFPA ratings (scale 0-4)**

Health = 0

Fire = 0

Reactivity = 0

· **HMIS ratings (scale 0-4)**

Health = \*1

Fire = 0

Reactivity = 0

· **Department issuing SDS:** *Technical Support Department*· **Contact:** *Technical Support Department*· **Date of preparation / last revision** 06/22/2015 / -· **Abbreviations and acronyms:**

*ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*

*ACGIH: American Conference of Governmental Industrial Hygienists*

*EINECS: European Inventory of Existing Commercial Chemical Substances*

*ELINCS: European List of Notified Chemical Substances*

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1*

*Skin Sens. 1: Sensitisation - Skin, Hazard Category 1*

*Carc. 1B: Carcinogenicity, Hazard Category 1B*