

# SAFETY DATA SHEET

Creation Date 13-Nov-2009

Revision Date 26-Feb-2018

**Revision Number** 1

### 1. Identification **Product Name** Cobalt(II) chloride hexahydrate A16346 Cat No. : CAS-No 7791-13-1 Synonyms Cobalt muriate hexahydrate; Cobaltous chloride hexahydrate **Recommended Use** Laboratory chemicals. Uses advised against Not for food, drug, pesticide or biocidal product use Details of the supplier of the safety data sheet **Company** Alfa Aesar

Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757 **Email:** tech@alfa.com www.alfa.com

### **Emergency Telephone Number**

During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.

## 2. Hazard(s) identification

### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

| Acute oral toxicity                         | Category 4  |
|---|-------------|
| Acute Inhalation Toxicity - Dusts and Mists | Category 4  |
| Respiratory Sensitization                   | Category 1  |
| Skin Sensitization                          | Category 1  |
| Germ Cell Mutagenicity                      | Category 2  |
| Carcinogenicity                             | Category 1B |
| Reproductive Toxicity                       | Category 1B |
|   |             |

### Label Elements

Signal Word Danger

### **Hazard Statements**

Harmful if swallowed May cause an allergic skin reaction Harmful if inhaled May cause allergy or asthma symptoms or breathing difficulties if inhaled Suspected of causing genetic defects May cause cancer by inhalation May damage fertility



#### Precautionary Statements Prevention

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Use only outdoors or in a well-ventilated area In case of inadequate ventilation wear respiratory protection Contaminated work clothing should not be allowed out of the workplace Wear protective gloves Do not breathe dust/fume/gas/mist/vapors/spray Response IF exposed or concerned: Get medical attention/advice Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician Skin IF ON SKIN: Wash with plenty of soap and water If skin irritation or rash occurs: Get medical advice/attention Wash contaminated clothing before reuse Indestion IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth Storage Store locked up Disposal Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC) Very toxic to aquatic life with long lasting effects

### 3. Composition/Information on Ingredients

| Component                       | CAS-No    | Weight % |
|---------------------------------|-----------|----------|
| Cobalt(II) chloride hexahydrate | 7791-13-1 | >95      |
| Cobalt(II) chloride             | 7646-79-9 | -        |

| 4. First-aid measures |  |  |  |  |
|-----------------------|--|--|--|--|
| General Advice        | Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.  |  |  |  |
| Eye Contact           | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. |  |  |  |

| Skin Contact  | Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.   |
|---|---|
| Inhalation  | Move to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.                          |
| Ingestion   | Do not induce vomiting. Call a physician or Poison Control Center immediately.  |
| Most important symptoms and effects<br>Notes to Physician | None reasonably foreseeable. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause allergic skin reaction. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing Treat symptomatically |
|   | 5. Fire-fighting measures   |
|   |   |

| Suitable Extinguishing Media                 | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
|--|--|
| Unsuitable Extinguishing Media               | No information available   |
| Flash Point<br>Method -                      | No information available<br>No information available                     |
| Autoignition Temperature<br>Explosion Limits |  |
| Upper  | No data available  |
| Lower  | No data available  |
| Sensitivity to Mechanical Impac              |  |
| Sensitivity to Static Discharge              | No information available   |

### **Specific Hazards Arising from the Chemical**

Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes. Do not allow run-off from fire fighting to enter drains or water courses.

### **Hazardous Combustion Products**

Hydrogen chloride gas Cobalt oxides.

### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

| NFPA<br>Health<br>3                   | Flammability<br>0  | Instability<br>0   | Physical hazards<br>N/A   |  |
|---------------------------------------|--|--|---|--|
|                                       | 6. Accidental re   | lease measures   |   |  |
| Personal Precautions                  | Keep people away from a  | quipment. Avoid dust formation.<br>nd upwind of spill/leak. Evacuate | e personnel to safe areas.  |  |
| Environmental Precautions             | Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. Should not be released into the environment. |  |   |  |
| Methods for Containment and Cle<br>Up | an Sweep up or vacuum up s formation.  | pillage and collect in suitable co                                   | ontainer for disposal. Avoid dust                                   |  |
|                                       | 7. Handling  | and storage  |   |  |
| Handling                              |  | equipment. Avoid dust formation<br>er a chemical fume hood. Do not   | n. Do not get in eyes, on skin, or<br>t breathe vapors/dust. Do not |  |

ingest.

### Storage

Keep containers tightly closed in a dry, cool and well-ventilated place.

### 8. Exposure controls / personal protection

### Exposure Guidelines

| Component           | ACGIH TLV                   | OSHA PEL | NIOSH IDLH | Mexico OEL (TWA) |
|---------------------|-----------------------------|----------|------------|------------------|
| Cobalt(II) chloride | TWA: 0.02 mg/m <sup>3</sup> |          |            |                  |
| hexahydrate         | _                           |          |            |                  |
| Cobalt(II) chloride | TWA: 0.02 mg/m <sup>3</sup> |          |            |                  |

### <u>Legend</u>

ACGIH - American Conference of Governmental Industrial Hygienists

**Engineering Measures** Use only under a chemical fume hood. Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

### Personal Protective Equipment

| Eye/face Protection      | Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.   |
|--------------------------|---|
| Skin and body protection | Long sleeved clothing.  |
| Respiratory Protection   | Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. |
| Hygiene Measures         | Handle in accordance with good industrial hygiene and safety practice.  |

### 9. Physical and chemical properties

| 7. Thysical and chemical properties    |                          |  |  |  |
|--|--------------------------|--|--|--|
| Physical State                         | Solid Crystalline        |  |  |  |
| Appearance                             | Reddish-violet           |  |  |  |
| Odor                                   | Odorless                 |  |  |  |
| Odor Threshold                         | No information available |  |  |  |
| рН                                     | 4.6 50 g/l aq.sol        |  |  |  |
| Melting Point/Range                    | 86 °C / 186.8 °F         |  |  |  |
| Boiling Point/Range                    | No information available |  |  |  |
| Flash Point                            | No information available |  |  |  |
| Evaporation Rate                       | Not applicable           |  |  |  |
| Flammability (solid,gas)               | No information available |  |  |  |
| Flammability or explosive limits       |                          |  |  |  |
| Upper                                  | No data available        |  |  |  |
| Lower                                  | No data available        |  |  |  |
| Vapor Pressure                         | negligible               |  |  |  |
| Vapor Density                          | Not applicable           |  |  |  |
| Specific Gravity                       | No information available |  |  |  |
| Bulk Density                           | 1.92 g/cm3               |  |  |  |
| Solubility                             | Soluble in water         |  |  |  |
| Partition coefficient; n-octanol/water | No data available        |  |  |  |
| Autoignition Temperature               |                          |  |  |  |
| Decomposition Temperature              | 400 °C                   |  |  |  |
| Viscosity                              | Not applicable           |  |  |  |
| Molecular Formula                      | Cl2 Co . 6 H2 O          |  |  |  |
| Molecular Weight                       | 237.93                   |  |  |  |
|  |                          |  |  |  |
|  |                          |  |  |  |

|  |  |                                     | 10. Stab   | ility and rea  | ctivity  |  |   |
|--|--|-------------------------------------|--|--|--|--|---|
| Reactive Hazard  | ctive Hazard None known, based on information available          |                                     |  |  |  |  |   |
| Stability  |  |                                     | Stable under normal conditions.  |  |  |  |   |
| Conditions to Avoid  | ł  |                                     | Avoid dust formati   | on. Incompatible pr  | oducts. Exposure   | to moisture. Exce  | ss heat.  |
| Incompatible Mater   | ials   |                                     | Strong oxidizing a   | gents, Metals  |  |  |   |
| Hazardous Decomp   | osition Pro  | ducts                               | Hydrogen chloride  | gas, Cobalt oxides   |  |  |   |
| Hazardous Polyme   | rization   |                                     | No information ava   | ailable.   |  |  |   |
| Hazardous Reactio  | ns   |                                     | None under norma   | al processing.   |  |  |   |
|  |  |                                     | 11. Toxico   | ological info  | rmation  |  |   |
| Acute Toxicity   |  |                                     |  |  |  |  |   |
| Product Information<br>Oral LD50<br>Mist LC50<br>Component Information   |  |                                     | Category 4. ATE =<br>Category 4. ATE =   | = 300 - 2000 mg/kg.<br>= 1 - 5 mg/l.   |  |  |   |
| Componer   | nt   |                                     | LD50 Oral  |  | .D50 Dermal  | LC50   | Inhalation  |
| Cobalt(II) chloride he   | exahydrate   |                                     | 766 mg/kg(Rat)   | LD50   | ) > 2 g/kg (Rat)   | N  | ot listed   |
| Cobalt(II) chic<br>Toxicologically Syr   |  |                                     | 586 mg/kg ( Rat )<br>No information ava  |  | Not listed   | N  | ot listed   |
| Products<br>Delayed and immed  | liate effects  |                                     | ell as chronic effe  |  | d long-term expo   | sure_  |   |
| Sensitization  |  |                                     | No information ava   | ailable  |  |  |   |
| Sensitization<br>Carcinogenicity   |  |                                     |  |  | ch agency has list   | ed any ingredient  | as a carcinogen.  |
|  | CAS-N<br>7791-13   | 0                                   |  | ailable  | ch agency has list<br>ACGIH<br>A3  | ed any ingredient  | as a carcinogen.<br>Mexico<br>Not listed                                    |
| Carcinogenicity  |  | <b>o</b><br>-1                      | The table below in   | ailable<br>dicates whether ea<br><u>NTP</u><br>Reasonably<br>Anticipated<br>Reasonably   | ACGIH  | OSHA   | Mexico  |
| Carcinogenicity Component Cobalt(II) chloride hexahydrate Cobalt(II) chloride IARC: (Internation   | 7791-13<br>7646-79<br>nal Agency fc                              | o<br>-1<br>-9<br>or Rese            | The table below in<br>IARC<br>Group 2B<br>Group 2B   | ailable<br>dicates whether ea<br><u>NTP</u><br>Reasonably<br>Anticipated<br>Reasonably<br>Anticipated<br><i>IARC: (Interr<br/>Group 1 - Ca<br/>Group 2A - F<br/>Group 2B - F<br/>al A1 - Known</i>   | ACGIH<br>A3<br>A3<br>national Agency for F<br>arcinogenic to Huma.<br>Probably Carcinogen<br>Possibly Carcinogen<br>Human Carcinogen<br>ted Human Carcinog   | OSHA<br>X<br>X<br>Research on Cancel<br>ns<br>ic to Humans<br>c to Humans<br>c to Humans   | Mexico<br>Not listed<br>Not listed  |
| Carcinogenicity Cobalt(II) chloride hexahydrate Cobalt(II) chloride IARC: (Internation ACGIH: (America   | 7791-13<br>7646-79<br>nal Agency fc                              | o<br>-1<br>-9<br>or Rese<br>e of Gc | The table below in<br>IARC<br>Group 2B<br>Group 2B<br>arch on Cancer)  | ailable<br>dicates whether ea<br>NTP<br>Reasonably<br>Anticipated<br>Reasonably<br>Anticipated<br>IARC: (Interr<br>Group 1 - Ca<br>Group 2A - H<br>Group 2B - H<br>ial<br>A1 - Known<br>A2 - Suspec<br>A3 - Animal   | ACGIH<br>A3<br>A3<br>national Agency for F<br>arcinogenic to Human<br>Probably Carcinogeni<br>Human Carcinogen<br>ted Human Carcinog<br>Carcinogen<br>nerican Conference of  | OSHA<br>X<br>X<br>Research on Cancel<br>ns<br>ic to Humans<br>c to Humans<br>ten<br>of Governmental Inc  | Mexico<br>Not listed<br>Not listed<br>r)                                    |
| Carcinogenicity Component Cobalt(II) chloride hexahydrate Cobalt(II) chloride IARC: (Internation ACGIH: (America Hygienists)                             | 7791-13<br>7646-79<br>nal Agency fo                              | o<br>-1<br>-9<br>e of Gc            | The table below in<br>IARC<br>Group 2B<br>Group 2B<br>arch on Cancer)  | ailable<br>dicates whether ea<br>NTP<br>Reasonably<br>Anticipated<br>Reasonably<br>Anticipated<br>IARC: (Interr<br>Group 1 - Ca<br>Group 2A - F<br>Group 2A - F<br>Group 2B - F<br>ial A1 - Known<br>A2 - Suspec<br>A3 - Animal<br>ACGIH: (An                                      | ACGIH<br>A3<br>A3<br>national Agency for F<br>arcinogenic to Human<br>Probably Carcinogeni<br>Human Carcinogen<br>ted Human Carcinog<br>Carcinogen<br>nerican Conference of<br>umans. Possible ri  | OSHA<br>X<br>X<br>Research on Cancel<br>ns<br>ic to Humans<br>c to Humans<br>ten<br>of Governmental Ind<br>sk of irreversible of   | Mexico<br>Not listed<br>Not listed<br>r)<br>dustrial Hygienists)<br>effects |
| Carcinogenicity Component Cobalt(II) chloride hexahydrate Cobalt(II) chloride IARC: (Internation ACGIH: (America Hygienists) Mutagenic Effects           | 7791-13<br>7646-79<br>nal Agency fo<br>n Conference<br><b>ts</b> | o<br>-1<br>-9<br>e of Gc            | The table below in<br>IARC<br>Group 2B<br>Group 2B<br>arch on Cancer)<br>overnmental Industr<br>Mutagenic effects<br>Experiments have<br>fertility.                      | ailable<br>dicates whether ea<br>NTP<br>Reasonably<br>Anticipated<br>Reasonably<br>Anticipated<br>IARC: (Interr<br>Group 1 - Ca<br>Group 2A - F<br>Group 2B - F<br>ial A1 - Known<br>A2 - Suspec<br>A3 - Animal<br>ACGIH: (An<br>have occurred in ho                               | ACGIH<br>A3<br>A3<br>national Agency for F<br>arcinogenic to Human<br>Probably Carcinogeni<br>Human Carcinogen<br>ted Human Carcinog<br>Carcinogen<br>nerican Conference of<br>umans. Possible ri<br>e toxicity effects on                                   | OSHA<br>X<br>X<br>Research on Cancel<br>ns<br>ic to Humans<br>c to Humans<br>ten<br>of Governmental Ind<br>sk of irreversible of<br>n laboratory anima                               | Mexico<br>Not listed<br>Not listed<br>r)<br>dustrial Hygienists)<br>effects |
| Carcinogenicity Cobalt(II) chloride hexahydrate Cobalt(II) chloride IARC: (Internation ACGIH: (America Hygienists) Mutagenic Effects Reproductive Effect | 7791-13<br>7646-79<br>nal Agency fo<br>n Conference<br><b>ts</b> | o<br>-1<br>-9<br>e of Gc            | The table below in<br>IARC<br>Group 2B<br>Group 2B<br>arch on Cancer)<br>overnmental Industr<br>Mutagenic effects<br>Experiments have<br>fertility.<br>Developmental eff | ailable<br>dicates whether ea<br>NTP<br>Reasonably<br>Anticipated<br>Reasonably<br>Anticipated<br>IARC: (Inter<br>Group 2A - I<br>Group 2A - I<br>Group 2B - I<br>Group 2B - I<br>Group 2B - I<br>Suspec<br>A3 - Animal<br>ACGIH: (An<br>have occurred in ho<br>shown reproductive | ACGIH<br>A3<br>A3<br>hational Agency for F<br>arcinogenic to Human<br>Probably Carcinogen<br>Human Carcinogen<br>ted Human Carcinogen<br>ted Human Carcinogen<br>herican Conference of<br>umans. Possible ri<br>te toxicity effects on<br>in experimental an | OSHA<br>X<br>X<br>Research on Cancel<br>ns<br>ic to Humans<br>c to Humans<br>ten<br>of Governmental Ind<br>sk of irreversible<br>sk of irreversible<br>n laboratory anima<br>nimals. | Mexico<br>Not listed<br>Not listed<br>r)<br>dustrial Hygienists)<br>effects |

| STOT - repeated exposure                     | None known  |
|--|---|
| Aspiration hazard                            | No information available  |
| Symptoms / effects,both acute and<br>delayed | Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing |
| Endocrine Disruptor Information              | No information available  |
| Other Adverse Effects                        | Tumorigenic effects have been reported in experimental animals.   |

### 12. Ecological information

### Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment. May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system.

| Component               | Freshwater Algae     | Freshwater Fish            | Microtox              | Water Flea       |
|-------------------------|----------------------|----------------------------|-----------------------|------------------|
| Cobalt(II) chloride     | Not listed           | Not listed                 | = 16 mg/L EC50        | Not listed       |
| hexahydrate             |                      |                            | Photobacterium        |                  |
|                         |                      |                            | phosphoreum 15 min as |                  |
|                         |                      |                            | Co++                  |                  |
|                         |                      |                            | = 160 mg/L EC50       |                  |
|                         |                      |                            | Photobacterium        |                  |
|                         |                      |                            | phosphoreum 5 min as  |                  |
|                         |                      |                            | Co++                  |                  |
|                         |                      |                            | = 2.8 mg/L EC50       |                  |
|                         |                      |                            | Photobacterium        |                  |
|                         |                      |                            | phosphoreum 30 min as |                  |
|                         |                      |                            | Co++                  |                  |
| Cobalt(II) chloride     | Not listed           | Cyprinus carpio: LC50=0.33 | Not listed            | 1.1-1.6 mg/L 48h |
| . ,                     |                      | mg/L 96h                   |                       | Ũ                |
| Persistence and Degrada | ability based on int | ormation available. May pe | rsist                 |                  |

**Bioaccumulation/Accumulation** 

Waste Disposal Methods

No information available.

Mobility

Will likely be mobile in the environment due to its water solubility.

| Component           | log Pow |
|---------------------|---------|
| Cobalt(II) chloride | 0.85    |

### 13. Disposal considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

### 14. Transport information

| DOT                   |  |
|-----------------------|--|
| UN-No                 | UN3077   |
| Proper Shipping Name  | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. |
| Proper technical name | Cobalt(II) chloride hexahydrate                    |
| Hazard Class          | 9  |
| Packing Group         |  |
| TDG                   |  |
| UN-No                 | UN3077   |
| Proper Shipping Name  | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. |
| Hazard Class          | 9  |
| Packing Group         |  |
| IATA                  |  |
| UN-No                 | UN3077   |
|                       |  |

| Proper Shipping Name<br>Hazard Class<br>Packing Group | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.<br>9<br>III |
|---|--|
| IMDG/IMO  |  |
| UN-No   | UN3077   |
| Proper Shipping Name                                  | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.             |
| Hazard Class  | 9  |
| Packing Group   | III  |
|   | 15 Regulatory information                                      |

### All of the components in the product are on the following Inventory lists: X = listed

#### International Inventories

| Component           | TSCA | DSL | NDSL | EINECS    | ELINCS | NLP | PICCS | ENCS | AICS | IECSC | KECL |
|---------------------|------|-----|------|-----------|--------|-----|-------|------|------|-------|------|
| Cobalt(II) chloride | -    | -   | -    | -         | -      |     | Х     | -    | Х    | Х     | -    |
| hexahydrate         |      |     |      |           |        |     |       |      |      |       |      |
| Cobalt(II) chloride | X    | Х   | -    | 231-589-4 | -      |     | Х     | Х    | Х    | Х     | Х    |
| La mand             |      |     |      |           |        |     |       |      |      |       |      |

Legend: X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

#### U.S. Federal Regulations

TSCA 12(b) Not applicable

### SARA 313

| Component                       | CAS-No    | Weight % | SARA 313 - Threshold<br>Values % |
|---------------------------------|-----------|----------|----------------------------------|
| Cobalt(II) chloride hexahydrate | 7791-13-1 | >95      | 0.1                              |
| Cobalt(II) chloride             | 7646-79-9 | -        | 0.1                              |

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act)

Not applicable

**Clean Air Act** 

| Component                       | HAPS Data | Class 1 Ozone Depletors | Class 2 Ozone Depletors |
|---------------------------------|-----------|-------------------------|-------------------------|
| Cobalt(II) chloride hexahydrate | Х         |                         | -                       |
| Cobalt(II) chloride             | Х         |                         | -                       |

**OSHA** Occupational Safety and Health Administration Not applicable

CERCLA

Not applicable

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know

Regulations

| Component                          | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|------------------------------------|---------------|------------|--------------|----------|--------------|
| Cobalt(II) chloride<br>hexahvdrate | -             | Х          | Х            | Х        | -            |
| Cobalt(II) chloride                | -             | Х          | Х            | Х        | -            |

### U.S. Department of Transportation

| Reportable Quantity (RQ):   | N |
|-----------------------------|---|
| DOT Marine Pollutant        | N |
| DOT Severe Marine Pollutant | N |

#### **U.S. Department of Homeland Security**

This product does not contain any DHS chemicals.

#### Other International Regulations

Mexico - Grade

No information available

|  | 16. Other information  |
|--|--|
| Prepared By  | Health, Safety and Environmental Department<br>Email: tech@alfa.com<br>www.alfa.com                            |
| Creation Date<br>Revision Date<br>Print Date<br>Revision Summary | 13-Nov-2009<br>26-Feb-2018<br>26-Feb-2018<br>SDS authoring systems update, replaces ChemGes SDS No. 7791-13-1. |

#### 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 SDS**