

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision Date: 03/03/2016

Version: 1.2

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

1.1. Product Identifier

Product Name: Rechargeable Lithium Ion Battery Pack

Product Code: BL1203; BL1203-BULK; BL2005; BL2005-BULK; BL2010; BL2010-BULK; BL2012; BL2012-BULK; BL2022; BL2022-

BULK; BL4011; BL4011-BULK

1.2. Intended Use of the Product

Use of the Substance/Mixture: Lithium-Ion battery pack

1.3. Name, Address, and Telephone of the Responsible Party

Company

Ingersoll Rand Industrial Technologies 800-D Beaty St. Davidson, NC 28036, USA T 1-800-483-4981 (Product Information)

1.4. Emergency Telephone Number

Emergency Number

: 1-800-424-9300 (USA), +1 703-527-3887 (International)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

*Classification (GHS-US)

Within the meaning of the OSHA Hazard Communication Standard [29 CFR 1910.1200]: this mixture is not considered a hazard when used in a manner which is consistent with the labeled directions. See section 2.3 for information for hazards related to the ingredients encased within this product.

2.2. Label Elements

GHS-US Labeling

No labeling applicable this product is considered an article under the OSHA Hazard communication Standard [29 CFR 1910.1200]. See section 2.3 for hazards related to the ingredients encased within this product.

*2.3. Other Hazards

Other hazards not contributing to the classification (These represent the hazards associated with the materials encased within the product that are not available under normal conditions of use)

May form combustible dust concentrations in air

H301 - Toxic if swallowed

- H314 Causes severe skin burns and eye damage
- H317 May cause an allergic skin reaction
- H318 Causes serious eye damage
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
- H350 May cause cancer
- H372 Causes damage to organs through prolonged or repeated exposure
- H400 Very toxic to aquatic life
- H410 Very toxic to aquatic life with long lasting effects

Within the meaning of the OSHA Hazard Communication Standard [29 CFR 1910.1200]: this mixture is not considered a hazard when used in a manner which is consistent with the labeled directions. This mixture is considered an article in its final form. This MSDS covers the hazards and information of the materials contained within the article, in the event the product is damaged or mishandled. Under normal conditions of use these chemicals are not anticipated to be available for exposure. Substances within this product may be reactive with water, air, and are flammable if released. Thermal decomposition of this product may generate corrosive, and toxic vapors. In particular Hydrofluoric acid may be released in the case of open cells. Hydrofluoric acid can cause severe chemical burns, is toxic by all routes of exposure, and is very reactive. Avoid extremely high or low temperatures, keep away from incompatible materials. Do not open, puncture, damage, or incinerate container.

2.4. Unknown Acute Toxicity (GHS-US):

No data available



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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable

3.2. Mixtures**

Name	Product Identifier	%	Classification (GHS-US)
Manganese dioxide	(CAS No) 1313-13-9	< 30	Acute Tox. 4 (Oral), H302
			Acute Tox. 4 (Inhalation), H332
			STOT RE 2, H373
			Aquatic Chronic 2, H411
Carbon	(CAS No) 7440-44-0	< 30	Comb. Dust
			Acute Tox. Not classified (Oral)
Nickel oxide	(CAS No) 1313-99-1	< 30	Skin Sens. 1, H317
			Carc. 1A, H350
			STOT RE 1, H372
			Aquatic Chronic 4, H413
Cobalt(II) oxide	(CAS No) 1307-96-6	< 30	Acute Tox. 3 (Oral), H301
			Resp. Sens. 1B, H334
			Skin Sens. 1, H317
			Carc. 2, H351
			Aquatic Acute 1, H400
			Aquatic Chronic 1, H410
Aluminum Foil	(CAS No) 7429-90-5	2 - 10	Not classified
Polyvinylidene fluoride (PVdF)	(CAS No) 24937-79-9	< 10	Not classified
Copper	(CAS No) 7440-50-8	2 - 10	Not classified
Aluminum and inert materials	Not available	5 - 10	Not classified
Electrolyte	See composition below***	<20	See hazards below***

***Electrolyte Components

Name	Product Identifier	Classification (GHS-US)	
Phosphate(1-), hexafluoro-, lithium	(CAS No) 21324-40-3	Acute Tox. 3 (Oral), H301	
		Skin Corr. 1A, H314	
		Eye Dam. 1, H318	
		STOT RE 1, H372	
Dimethyl carbonate	(CAS No) 616-38-6	Flam. Liq. 2, H225	
Carbonate, methyl ethyl	(CAS No) 623-53-0	Flam. Liq. 2, H225	
Ethylene carbonate	(CAS No) 96-49-1	Eye Irrit. 2A, H319	

**These composition tables represent the hazards associated with the individual ingredients within this product. The product itself is not hazardous under normal conditions of use.

Mercury content:Hg <0.1mg/kg</th>Cadmium content:Cd <1mg/kg</td>Lead content:Pb < 10mg/kg</td>Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of First Aid Measures

First-aid Measures General: The following first aid measures apply in case of exposure to the interior battery components, if the battery is damaged and exposure occurs. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid Measures After Inhalation: When symptoms occur: go into open air and ventilate suspected area. Immediately call a POISON CENTER or doctor/physician.

First-aid Measures After Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Immediately call a POISON CENTER or doctor/physician.

First-aid Measures After Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

First-aid Measures After Ingestion: Rinse mouth. Obtain emergency medical attention. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

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

Symptoms/Injuries: Not hazardous according to OSHA 29 CFR 1910.1200 and is considered an article. Under normal conditions of use there are no physical or health hazards associated with this product. The following symptoms apply in the event an exposure occurs to the materials housed inside the product. Contact may cause immediate severe irritation progressing quickly to chemical burns. May cause cancer. Exposure may produce an allergic reaction. Causes damage to organs through prolonged or repeated exposure.

Symptoms/Injuries After Inhalation: Exposure to materials housed in battery cells: may cause allergy or asthma symptoms or breathing difficulties if inhaled. Inhalation may cause immediate severe irritation progressing quickly to chemical burns. Symptoms/Injuries After Skin Contact: Exposure to materials housed in battery cells: may cause an allergic skin reaction, may cause chemical burns.

Symptoms/Injuries After Eye Contact: Exposure to materials housed in battery cells: Causes serious eye damage.

Symptoms/Injuries After Ingestion: Exposure to materials housed in battery cells: toxic if swallowed.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed to materials encased within the product get medical attention immediately.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Metal fire extinction powder, dry powder, sand, water spray.

Unsuitable Extinguishing Media: Do not use a heavy water stream, use of a heavy stream of water may spread fire.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but will burn at high temperatures.

Explosion Hazard: If heated above 125°C (257°F) cells can explode.

Reactivity: Thermal decomposition generates: corrosive vapors, flammable gas, toxic gas, hydrofluoric acid. Product itself is stable, but if damaged or opened, can release hydrofluoric acid on contact with water which can cause severe chemical burns, is toxic by all routes of exposure, and is very reactive.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. **Other information:** Do not allow run-off from fire fighting to enter drains or water courses. Upon thermal decomposition and high temperatures may explode, or release toxic, corrosive, and flammable gases.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Product itself under normal conditions of use is not considered hazardous, for materials housed within product: avoid all eyes and skin contact and do not breathe vapor and mist. Do not allow product to spread into the environment.

6.1.1. For Non-emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Responders

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Ventilate area.

6.2. Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

6.3. Methods and Material for Containment and Cleaning Up

For Containment: Stop leak without risks if possible.

Methods for Cleaning Up: Clear up spills immediately and dispose of waste safely. For product itself take up mechanically, for inner materials in the event of release from damage neutralize, and absorb material with inert material. Stop leak if possible to do so without risk. Do not allow to spread into the environment. Contact competent authority after a spill, and follow local/national regulations.

6.4. Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection.

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SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: Do not open or damage enclosure, or battery cell as this could cause a potential exposure and release of hazardous materials. Under normal conditions of use this product is considered an article and exposure to the ingredients contained within this product is unlikely. Substances within this product may be reactive with water, air, and are flammable if released. Thermal decomposition of this product may generate corrosive, and toxic vapors. In particular hydrofluoric acid may be released in the case of open cells. Hydrofluoric acid can cause severe chemical burns, is toxic by all routes of exposure, and is very reactive. Avoid extremely high or low temperatures, keep away from incompatible materials. Do not expose to heat, or ignition sources as this could cause an explosion. If heated above 125°C (257°F) may explode. Do not puncture or incinerate container. Avoid short circuiting the cell.

Precautions for Safe Handling: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust, vapors, spray from inner battery components.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Do no eat, drink or smoke when using this product.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Keep container tightly closed. Store in original container. Store in a dry, cool place. Store away from ignition sources, heat, and incompatible materials.

Incompatible Products: Strong acids, strong bases, strong oxidizers.

Storage Temperature: 20 °C (68°F); room temperature.

7.3. Specific End Use(s)

Lithium-Ion battery pack.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters			
Copper (7440-50-8)			
USA ACGIH	ACGIH TWA (mg/m³)	0.2 mg/m ³	
USA NIOSH	NIOSH REL (TWA) (mg/m3)	0.1 mg/m ³	
USA IDLH	US IDLH (mg/m3)	100 mg/m ³	
USA OSHA	OSHA PEL (TWA) (mg/m3)	1 mg/m ³	
Aluminum (7429-90-5)			
USA ACGIH	ACGIH TWA (mg/m³)	1 mg/m ³	
USA NIOSH	NIOSH REL (TWA) (mg/m3)	5 mg/m³	
USA OSHA	OSHA PEL (TWA) (mg/m3)	5 mg/m ³	

8.2. Exposure Controls

Appropriate Engineering Controls Personal Protective Equipment : Ensure all national/local regulations are observed.

: Not required under normal conditions of use, when handling damaged batteries: . Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.

: Not required under normal conditions of use, when handling damaged batteries:

: Not required under normal conditions of use, when handling damaged batteries:

: Not required under normal conditions of use, when handling damaged batteries:

: Not required under normal conditions of use, when handling damaged batteries:

: Not required under normal conditions of use, when handling damaged batteries: Use a NIOSH-approved self-contained breathing apparatus whenever exposure may

Chemically resistant materials and fabrics. Corrosionproof clothing.



Wear chemically resistant protective gloves.

exceed established Occupational Exposure Limits.

Chemical goggles or safety glasses.

.Wear suitable protective clothing.

Materials for Protective Clothing

Hand Protection

Eye Protection

Skin and Body Protection

Respiratory Protection

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Other Information	: When using, do not eat, drink or smoke.
SECTION 9: PHYSICAL AND CHE	MICAL PROPERTIES
9.1. Information on Basic Physical a	nd Chemical Properties
Physical State	: Solid
Appearance	: Manufactured Battery Cell.
Odor	: Odorless.
Odor Threshold	: No data available
рН	: No data available
Relative Evaporation Rate (butylacetate=1)	: No data available
Melting Point	: No data available
Freezing Point	: No data available
Boiling Point	: No data available
Flash Point	: No data available
Auto-ignition Temperature	: No data available
Decomposition Temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor Pressure	: No data available
Relative Vapor Density at 20 °C	: No data available
Relative Density	: No data available
Specific Gravity	: Not available
Solubility	: Insoluble in water.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, Kinematic	: No data available
Viscosity, Dynamic	: No data available
Explosive Properties	: No data available
Oxidizing Properties	: No data available
Explosive Limits	: Not applicable

9.2. Other Information No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity: Thermal decomposition generates: corrosive vapors, flammable gas, toxic gas, hydrofluoric acid. Product itself is stable, but if damaged or opened, can release hydrofluoric acid on contact with water which can cause severe chemical burns, is toxic by all routes of exposure, and is very reactive.

10.2 Chemical Stability: Stable under normal conditions.

10.3 Possibility of Hazardous Reactions: Hazardous reactions will not occur under normal conditions.

10.4 Conditions to Avoid: Direct sunlight. Extremely high or low temperatures. Ignition sources. Incompatible materials. Damaging, puncturing, or opening the battery cell.

10.5 Incompatible Materials: Strong acids, strong bases, strong oxidizers, water, seawater, moisture.

10.6 Hazardous Decomposition Products: Thermal decomposition generates: carbon oxides (CO, CO2), corrosive vapors, toxic vapors. Can also release hydrofluoric acid on contact with water which can cause severe chemical burns, is toxic by all routes of exposure, and is very reactive.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information On Toxicological Effects

This product is considered an article under the OSHA Hazard communication Standard [29 CFR 1910.1200]. The information below reflects the hazards of the individual ingredients within the product, which if damaged may be released. **Acute Toxicity** : Not classified

Manganese dioxide (1313-13-9)		
LD50 Oral Rat	9000 mg/kg	
Dimethyl carbonate (616-38-6)		
LD50 Oral Rat	13000 mg/kg	
LD50 Dermal Rabbit	> 5 g/kg	
LC50 Inhalation Rat (mg/l)	140 mg/l/4h	
Carbon (7440-44-0)		
LD50 Oral Rat	> 10000 mg/kg	

Nickel oxide (1313-99-1)	
LD50 Oral Rat	> 5000 mg/kg
Skin Corrosion/Irritation: Not classified	
Serious Eye Damage/Irritation: Not class	ssified
Respiratory or Skin Sensitization: Not of	classified
Germ Cell Mutagenicity: Not classified	
Carcinogenicity: Not classified	
Nickel oxide (1313-99-1)	
IARC group	1
National Toxicity Program (NTP) Status	5 1
Cobalt(II) oxide (1307-96-6)	
IARC group	2B
Reproductive Toxicity: Not classified	
Specific Target Organ Toxicity (Single E	xposure): Not classified
Specific Target Organ Toxicity (Repeate	ed Exposure): Not classified
Aspiration Hazard: Not classified	• •
-	xposure to materials housed in battery cells: may cause allergy or asthma symptoms or
	on may cause immediate severe irritation progressing quickly to chemical burns.
-	Exposure to materials housed in battery cells: may cause an allergic skin reaction, may
cause chemical burns.	
	Exposure to materials housed in battery cells: Causes serious eye damage.
	posure to materials housed in battery cells: toxic if swallowed.
SECTION 12: ECOLOGICAL IN	
	FORMATION
12.1. Toxicity	
Ecology - General	: The product itself is not considered hazardous and is considered and article
	according to 29 CFR 1910.1200. The ecotoxicological information applies to the
	materials encased within the product. Very toxic to aquatic life with long lasting
(7440 50 0)	effects.
Copper (7440-50-8)	0.0000 /0.0000
LC50 Fish 1	0.0068 (0.0068 - 0.0156) mg/l (Exposure time: 96 h - Species: Pimephales promelas)
EC50 Daphnia 1	0.03 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
EC50 Other Aquatic Organisms 1	0.0426 (0.0426 - 0.0535) mg/l (Exposure time: 72 h - Species: Pseudokirchneriella
ECSO Other Aquatic Organishis I	subcapitata [static])
LC 50 Fish 2	0.3 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Other Aquatic Organisms 2	0.031 (0.031 - 0.054) mg/l (Exposure time: 96 h - Species: Prinephales prometals [static])
	subcapitata [static])
Nickel oxide (1313-99-1)	> 100 mg/l//Europeuro timos OC h. Consistent Deschard (1, 1, 1, 1, 1, 1)
LC50 Fish 1	> 100 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])
EC50 Daphnia 1	> 100 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 Other Aquatic Organisms 1	> 127.3 mg/l (Exposure time: 72 h - Species: Pseudokirchneriella subcapitata)
12.2. Persistence and Degradabili	
Rechargeable Lithium Ion Battery Pack	
Persistence and Degradability	May cause long-term adverse effects in the environment.
Copper (7440-50-8)	
Persistence and Degradability	Not readily biodegradable.
12.3. Bioaccumulative Potential	
Rechargeable Lithium Ion Battery Pack	
	Not established.
Bioaccumulative Potential	
Bioaccumulative Potential Manganese dioxide (1313-13-9)	
	(no bioaccumulation expected)
Manganese dioxide (1313-13-9)	

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12.4. Mobility in Soil No additional information available

12.5. Other Adverse Effects

Other Information

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations. Do not puncture or incinerate container.

Ecology – Waste Materials: The materials contained within this product are hazardous to the environment, do not release into the environment.

Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

In Accordance With ICAO/IATA/DOT/TDG

The rechargeable Lithium-Ion battery pack as stated are made in compliance to the requirements stated in the latest edition of the IATA Dangerous Goods Regulations Packing Instruction 965 section II such that they can be transported as a NOT RESTRICTED (non-hazardous/non-dangerous) goods. However, if those lithium-ion battery packs are packed with or contained in equipment, then it is the responsibility of the shipper to ensure that the consignment are packed in compliance to the latest edition of the IATA Dangerous Goods Regulations section II of either Packing Instruction 966 or 967 in order for that consignment to be declared as NOT RESTRICTED (non-hazardous/non-Dangerous). With regard to transport, the following regulations are cited and considered:

- The International Civil Aviation Organization (ICAO) Technical Instructions (2013-2014 Edition),

- The International Air Transport Association (IATA) Dangerous Goods Regulations (55th Edition,

2014)

- The International Maritime Dangerous Goods (IMDG) Code (2012 Edition),

- US Hazardous Materials Regulations 49 CFR (Code of Federal Regulations)

Sections 173-185 Lithium batteries and cells.

- The UN Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria
- 38.3 Lithium batteries, 5th revised edition
- UN No. 3480 (Lithium ion batteries contained in equipment, including lithium polymer batteries), and UN 3481
- (Lithium ion batteries packed with equipment, including lithium polymer batteries)

Our products are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to all the applicable international and national governmental regulations, not limited to the above mentioned. We further certify that the enclosed products have been tested and fulfilled the requirements and conditions in accordance with UN Recommendations (T1 - T8) on the Transport of Dangerous Goods Model Regulations and the Manual of Tests and Criteria that can be treated as "Non-Dangerous Goods".

Test results of the UN Recommendation on the Transport of Dangerous Goo	ds

Manual of Test and Criteria (38.3 Lithium battery)		Test Results	Remark
No	Test Item		
T1	Altitude Simulation	Pass	
T2	Thermal test	Pass	
Т3	Vibration	Pass	
T4	Shock	Pass	
T5	External Short Circuit	Pass	
Т6	Impact	Pass	
Т7	Overcharge	Pass	For pack only
Т8	Forced discharge	Pass	For cell only
SECTION 1	5: REGULATORY INFORMATION		

15.1 US Federal Regulations

This product is considered an article under the OSHA Hazard communication Standard [29 CFR 1910.1200]. The information below reflects the hazards of the individual ingredients within the product, which if damaged may be released.

Manganese dioxide (1313-13-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Phosphate(1-), hexafluoro-, lithium (21324-40-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Polyvinylidene fluoride (PVdF) (24937-79-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Dimethyl carbonate (616-38-6)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory			
Carbonate, methyl ethyl (623-53-0)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory			
Ethylene carbonate (96-49-1)			
Listed on the United States TSCA (Toxic Substances Control A	.ct) inventory		
Carbon (7440-44-0)			
Listed on the United States TSCA (Toxic Substances Control A	.ct) inventory		
Copper (7440-50-8)	. ,		
Listed on the United States TSCA (Toxic Substances Control A	act) inventory		
Listed on SARA Section 313 (Specific toxic chemical listings)	. ,		
	0 %		
Aluminum (7429-90-5)			
Listed on the United States TSCA (Toxic Substances Control A	act) inventory		
Listed on SARA Section 313 (Specific toxic chemical listings)	,,		
	0 % (dust or fume only)		
Nickel oxide (1313-99-1)			
Listed on the United States TSCA (Toxic Substances Control A			
Cobalt(II) oxide (1307-96-6)	· · ·		
Listed on the United States TSCA (Toxic Substances Control A	uct) inventory		
15.2 US State Regulations			
	communication Standard [29 CFR 1910.1200]. The information		
below reflects the hazards of the individual ingredients within			
Nickel oxide (1313-99-1) U.S California - Proposition 65 - Carcinogens List	WARNING: This product contains chemicals known to the State		
LU.3 CAMOUNIA - PTOPOSITION B5 - CAPPINOPPIC LIST			
	of California to cause cancer.		
Cobalt(II) oxide (1307-96-6)	of California to cause cancer.		
	of California to cause cancer. WARNING: This product contains chemicals known to the State		
Cobalt(II) oxide (1307-96-6) U.S California - Proposition 65 - Carcinogens List	of California to cause cancer.		
Cobalt(II) oxide (1307-96-6) U.S California - Proposition 65 - Carcinogens List Manganese dioxide (1313-13-9)	of California to cause cancer. WARNING: This product contains chemicals known to the State of California to cause cancer.		
Cobalt(II) oxide (1307-96-6) U.S California - Proposition 65 - Carcinogens List Manganese dioxide (1313-13-9) U.S New Hampshire - Regulated Toxic Air Pollutants - Ambi	of California to cause cancer. WARNING: This product contains chemicals known to the State of California to cause cancer. ent Air Levels (AALs) - 24-Hour		
Cobalt(II) oxide (1307-96-6) U.S California - Proposition 65 - Carcinogens List Manganese dioxide (1313-13-9) U.S New Hampshire - Regulated Toxic Air Pollutants - Ambi U.S New Hampshire - Regulated Toxic Air Pollutants - Ambi	of California to cause cancer. WARNING: This product contains chemicals known to the State of California to cause cancer. ent Air Levels (AALs) - 24-Hour		
Cobalt(II) oxide (1307-96-6) U.S California - Proposition 65 - Carcinogens List Manganese dioxide (1313-13-9) U.S New Hampshire - Regulated Toxic Air Pollutants - Ambi U.S New Hampshire - Regulated Toxic Air Pollutants - Ambi U.S Texas - Effects Screening Levels - Long Term	of California to cause cancer. WARNING: This product contains chemicals known to the State of California to cause cancer. ent Air Levels (AALs) - 24-Hour		
Cobalt(II) oxide (1307-96-6) U.S California - Proposition 65 - Carcinogens List Manganese dioxide (1313-13-9) U.S New Hampshire - Regulated Toxic Air Pollutants - Ambi U.S New Hampshire - Regulated Toxic Air Pollutants - Ambi U.S Texas - Effects Screening Levels - Long Term U.S Texas - Effects Screening Levels - Short Term	of California to cause cancer. WARNING: This product contains chemicals known to the State of California to cause cancer. ent Air Levels (AALs) - 24-Hour		
Cobalt(II) oxide (1307-96-6) U.S California - Proposition 65 - Carcinogens List Manganese dioxide (1313-13-9) U.S New Hampshire - Regulated Toxic Air Pollutants - Ambi U.S New Hampshire - Regulated Toxic Air Pollutants - Ambi U.S Texas - Effects Screening Levels - Long Term U.S Texas - Effects Screening Levels - Short Term Dimethyl carbonate (616-38-6)	of California to cause cancer. WARNING: This product contains chemicals known to the State of California to cause cancer. ent Air Levels (AALs) - 24-Hour ent Air Levels (AALs) - Annual		
Cobalt(II) oxide (1307-96-6) U.S California - Proposition 65 - Carcinogens List Manganese dioxide (1313-13-9) U.S New Hampshire - Regulated Toxic Air Pollutants - Ambi U.S New Hampshire - Regulated Toxic Air Pollutants - Ambi U.S Texas - Effects Screening Levels - Long Term U.S Texas - Effects Screening Levels - Short Term	of California to cause cancer. WARNING: This product contains chemicals known to the State of California to cause cancer. ent Air Levels (AALs) - 24-Hour ent Air Levels (AALs) - Annual		
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U.S. - California - SCAQMD - Toxic Air Contaminants - Non-Cancer Acute U.S. - California - Toxic Air Contaminant List (AB 1807, AB 2728) U.S. - Colorado - Primary Drinking Water Regulations - Maximum Contaminant Level Goals (MCLGs) U.S. - Colorado - Primary Drinking Water Regulations - Secondary Maximum Contaminant Levels (SMCLs) U.S. - Connecticut - Drinking Water Quality Standards - Groundwater Sources U.S. - Connecticut - Drinking Water Quality Standards - Maximum Contaminant Levels U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min) U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr) U.S. - Connecticut - Water Quality Standards - Acute Freshwater Aquatic Life Criteria U.S. - Connecticut - Water Quality Standards - Acute Saltwater Aquatic Life Criteria U.S. - Connecticut - Water Quality Standards - Chronic Freshwater Aquatic Life Criteria U.S. - Connecticut - Water Quality Standards - Chronic Saltwater Aquatic Life Criteria U.S. - Connecticut - Water Quality Standards - Consumption of Water and Organisms U.S. - Connecticut - Water Quality Standards - Health Designations U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities U.S. - Florida - Drinking Water Standards - Secondary Maximum Contaminant Levels (SMCLs) U.S. - Georgia - Drinking Water - Secondary Maximum Contaminant Levels (SMCLs) U.S. - Hawaii - Occupational Exposure Limits - STELs U.S. - Hawaii - Occupational Exposure Limits - TWAs U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs) U.S. - Idaho - Occupational Exposure Limits - TWAs U.S. - Illinois - Toxic Air Contaminants U.S. - Louisiana - Reportable Quantity List for Pollutants U.S. - Maryland - Surface Water Quality Standards - Acute Freshwater Aquatic Life U.S. - Maryland - Surface Water Quality Standards - Acute Saltwater Aquatic Life Criteria U.S. - Maryland - Surface Water Quality Standards - Chronic Freshwater Aquatic Life U.S. - Maryland - Surface Water Quality Standards - Chronic Saltwater Aquatic Life Criteria U.S. - Maryland - Surface Water Quality Standards - Consumption of Water and Organisms U.S. - Massachusetts - Allowable Ambient Limits (AALs) U.S. - Massachusetts - Allowable Threshold Concentrations (ATCs) U.S. - Massachusetts - Drinking Water - Maximum Contaminant Levels (MCLs) U.S. - Massachusetts - Drinking Water - Secondary Maximum Contaminant Levels (SMCLs) U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1 U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2 U.S. - Massachusetts - Oil & Hazardous Material List - Reportable Quantity U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1 U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2 U.S. - Massachusetts - Right To Know List U.S. - Massachusetts - Threshold Effects Exposure Limits (TELs) U.S. - Massachusetts - Toxics Use Reduction Act U.S. - Michigan - Occupational Exposure Limits - TWAs U.S. - Michigan - Polluting Materials List U.S. - Minnesota - Hazardous Substance List U.S. - Minnesota - Permissible Exposure Limits - TWAs U.S. - Missouri - Drinking Water - Maximum Contaminant Levels (MCLs) U.S. - Missouri - Drinking Water - Secondary Maximum Contaminant Levels (SMCLs) U.S. - Nevada - Drinking Water - Secondary Maximum Contaminant Levels (SMCLs) U.S. - New Hampshire - Drinking Water - Secondary Maximum Contaminant Levels (SMCLs) U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances U.S. - New Jersey - Environmental Hazardous Substances List U.S. - New Jersey - Primary Drinking Water Standards - Action Levels - ALs U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - New Jersey - Water Quality - Ground Water Quality Criteria U.S. - New Jersey - Water Quality - Practical Quantitation Levels (PQLs)

U.S New Mexico - Water Quality - Standards for Ground Water of 10,000 mg/L TDS Concentration or Less
U.S New York - Occupational Exposure Limits - TWAs
U.S New York - Reporting of Releases Part 597 - List of Hazardous Substances
U.S North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour
U.S North Dakota - Water Quality Standards - Aquatic Life Acute Value for Classes I, IA, II, III
U.S North Dakota - Water Quality Standards - Aquatic Life Chronic Value for Classes I, IA, II, III
U.S North Dakota - Water Quality Standards - Human Health Value for Classes I, IA, II
U.S Oregon - Permissible Exposure Limits - TWAs U.S Pennsylvania - Beneficial Use of Sewage Sludge by Land Application - Pollutant Ceiling Limits
U.S Pennsylvania - Drinking Water - Maximum Contaminant Levels (MCLs)
U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List
U.S Pennsylvania - RTK (Right to Know) List
U.S Rhode Island - Air Toxics - Acceptable Ambient Levels - 1-Hour U.S Rhode Island - Air Toxics - Acceptable Ambient Levels - Annual
U.S Rhode Island - Water Quality Standards - Acute Freshwater Aquatic Life Criteria
U.S Rhode Island - Water Quality Standards - Acute Saltwater Aquatic Life Criteria
U.S Rhode Island - Water Quality Standards - Chronic Freshwater Aquatic Life Criteria
U.S Rhode Island - Water Quality Standards - Chronic Saltwater Aquatic Life Criteria
U.S Rhode Island - Water Quality Standards - Human Health Criteria for Consumption of Water and Aquatic Organisms
U.S South Carolina - Secondary Maximum Contaminant Levels (SMCLs)
U.S Tennessee - Occupational Exposure Limits - TWAs
U.S Texas - Drinking Water Standards - Secondary Constituent Levels (SCLs)
U.S Texas - Effects Screening Levels - Long Term
U.S Texas - Effects Screening Levels - Short Term
U.S Utah - Drinking Water - Secondary Maximum Contaminant Levels (SMCLs)
U.S Vermont - Permissible Exposure Limits - TWAs
U.S Virginia - Water Quality Standards - Acute Freshwater Aquatic Life
U.S Virginia - Water Quality Standards - Acute Saltwater Aquatic Life
U.S Virginia - Water Quality Standards - Chronic Freshwater Aquatic Life
U.S Virginia - Water Quality Standards - Chronic Saltwater Aquatic Life
U.S Virginia - Water Quality Standards - Public Water Supply Effluent Limits
U.S Washington - Permissible Exposure Limits - STELs
U.S Washington - Permissible Exposure Limits - TWAs
U.S West Virginia - Water Quality - Groundwater Standards - Ceiling Concentrations
U.S Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 25 Feet to Less Than 40 Feet
U.S Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 40 Feet to Less Than 75 Feet U.S Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 75 Feet or Greater
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U.S Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights Less Than 25 Feet
U.S Alaska - Water Quality Standards - Acute Aquatic Life Criteria for Fresh Water
U.S Alaska - Water Quality Standards - Chronic Aquatic Life Criteria for Fresh Water
U.S Alaska - Water Quality Standards - Acute Aquatic Life Criteria for Marine Water
U.S Alaska - Water Quality Standards - Chronic Aquatic Life Criteria for Marine Water
U.S Arkansas - Surface Water Quality Standards - Chronic Aquatic Life Criteria
U.S Arkansas - Surface Water Quality Standards - Acute Aquatic Life Criteria
Aluminum (7429-90-5)
U.S California - Toxic Air Contaminant List (AB 1807, AB 2728)
U.S Colorado - Primary Drinking Water Regulations - Secondary Maximum Contaminant Levels (SMCLs)
U.S Connecticut - Hazardous Air Pollutants - HLVs (30 min)
U.S Connecticut - Hazardous Air Pollutants - HLVs (8 hr)
U.S Connecticut - Water Quality Standards - Acute Freshwater Aquatic Life Criteria
U.S Connecticut - Water Quality Standards - Chronic Freshwater Aquatic Life Criteria
U.S Delaware - Pollutant Discharge Requirements - Reportable Quantities
U.S Florida - Drinking Water Standards - Secondary Maximum Contaminant Levels (SMCLs)
U.S Georgia - Drinking Water - Secondary Maximum Contaminant Levels (SMCLs)
U.S Hawaii - Occupational Exposure Limits - STELs
U.S Hawaii - Occupational Exposure Limits - TWAs
U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations

U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs)
U.S Maryland - Surface Water Quality Standards - Acute Freshwater Aquatic Life
U.S Maryland - Surface Water Quality Standards - Chronic Freshwater Aquatic Life
U.S Massachusetts - Drinking Water - Secondary Maximum Contaminant Levels (SMCLs)
U.S Massachusetts - Right To Know List
U.S Massachusetts - Toxics Use Reduction Act
U.S Michigan - Occupational Exposure Limits - TWAs
U.S Minnesota - Hazardous Substance List
U.S Minnesota - Permissible Exposure Limits - TWAs
U.S Missouri - Drinking Water - Secondary Maximum Contaminant Levels (SMCLs)
U.S Nevada - Drinking Water - Secondary Maximum Contaminant Levels (SMCLs)
U.S New Hampshire - Drinking Water - Secondary Maximum Contaminant Levels (SMCLs)
U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour
U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual
U.S New Jersey - Discharge Prevention - List of Hazardous Substances
U.S New Jersey - Environmental Hazardous Substances List
U.S New Jersey - Right to Know Hazardous Substance List
U.S New Jersey - Secondary Drinking Water Standards - Recommended Upper Limits (RULs) U.S New Jersey - Special Health Hazards Substances List
U.S New Jersey - Water Quality - Ground Water Quality Criteria
U.S New Jersey - Water Quality - Ground Water Quality Criteria
U.S New Mexico - Water Quality - Standards for Ground Water of 10,000 mg/L TDS Concentration or Less
U.S North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour
U.S Oregon - Permissible Exposure Limits - TWAs
U.S Pennsylvania - Drinking Water - Secondary Maximum Contaminant Levels (SMCLs)
U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List
U.S Pennsylvania - RTK (Right to Know) List
U.S Rhode Island - Water Quality Standards - Acute Freshwater Aquatic Life Criteria
U.S Rhode Island - Water Quality Standards - Chronic Freshwater Aquatic Life Criteria
U.S South Carolina - Secondary Maximum Contaminant Levels (SMCLs)
U.S Tennessee - Occupational Exposure Limits - TWAs
U.S Texas - Drinking Water Standards - Secondary Constituent Levels (SCLs)
U.S Texas - Effects Screening Levels - Long Term
U.S Texas - Effects Screening Levels - Short Term
U.S Utah - Drinking Water - Secondary Maximum Contaminant Levels (SMCLs)
U.S Vermont - Permissible Exposure Limits - TWAs
U.S Washington - Permissible Exposure Limits - STELs
U.S Washington - Permissible Exposure Limits - TWAs
U.S Alaska - Water Quality Standards - Acute Aquatic Life Criteria for Fresh Water
U.S Alaska - Water Quality Standards - Chronic Aquatic Life Criteria for Fresh Water
Nickel oxide (1313-99-1)
U.S California - SCAQMD - Toxic Air Contaminants - Carcinogens
U.S California - SCAQMD - Toxic Air Contaminants - Non-Cancer Acute
U.S California - SCAQMD - Toxic Air Contaminants - Non-Cancer Chronic
U.S California - SDAPCD - Toxic Air Contaminants - Carcinogenic Impacts Must Be Calculated
U.S Connecticut - Hazardous Air Pollutants - HLVs (30 min)
U.S Connecticut - Hazardous Air Pollutants - HLVs (8 hr)
U.S Maine - Chemicals of High Concern
U.S Massachusetts - Allowable Ambient Limits (AALs)
U.S Massachusetts - Allowable Threshold Concentrations (ATCs)
U.S Massachusetts - Right To Know List
U.S Massachusetts - Threshold Effects Exposure Limits (TELs)
U.S Minnesota - Chemicals of High Concern
U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour
U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual
U.S New Jersey - Right to Know Hazardous Substance List

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U.S New Jersey - Special Health Hazards Substances List
U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List
U.S Pennsylvania - RTK (Right to Know) - Special Hazardous Substances
U.S Pennsylvania - RTK (Right to Know) List
U.S South Carolina - Toxic Air Pollutants - Maximum Allowable Concentrations
U.S South Carolina - Toxic Air Pollutants - Pollutant Categories
U.S Texas - Effects Screening Levels - Long Term
U.S Texas - Effects Screening Levels - Short Term
Cobalt(II) oxide (1307-96-6)
U.S Illinois - Toxic Air Contaminant Carcinogens
U.S Illinois - Toxic Air Contaminants

U.S. - Maine - Chemicals of High Concern

U.S. - Minnesota - Chemicals of High Concern

U.S. - Texas - Effects Screening Levels - Long Term

U.S. - Texas - Effects Screening Levels - Short Term

SECTION 16: OTHER INFORMATION

Other Information

: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200. Within the meaning of the OSHA Hazard Communication Standard [29 CFR 1910.1200]: this mixture is not considered a hazard when used in a manner which is consistent with the labeled directions. This mixture is considered an article in its final form.

GHS Full Text Phrases (This product is considered an article under the OSHA Hazard communication Standard [29 CFR 1910.1200]. The information below reflects the hazard descriptions for the hazards of the individual ingredients within the product, which if damaged may be released)

Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Aquatic Chronic 4	Hazardous to the aquatic environment - Chronic Hazard Category 4
Carc. 1A	Carcinogenicity Category 1A
Carc. 2	Carcinogenicity Category 2
Comb. Dust	Combustible Dust
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 2	Flammable liquids Category 2
Pyr. Sol. 1	Pyrophoric solids Category 1
Resp. Sens. 1	Respiratory sensitisation Category 1
Resp. Sens. 1B	Respiratory sensitisation Category 1B
Skin Corr. 1A	Skin corrosion/irritation Category 1A
Skin Sens. 1	Skin sensitization Category 1
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
Water-react. 2	Substances and mixtures which in contact with water emit flammable
	gases Category 2
H225	Highly flammable liquid and vapor
H250	Catches fire spontaneously if exposed to air
H261	In contact with water releases flammable gas
H301	Toxic if swallowed
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

May cause an allergic skin reaction
Causes serious eye damage
Causes serious eye irritation
Harmful if inhaled
May cause allergy or asthma symptoms or breathing difficulties if
inhaled
May cause respiratory irritation
May cause cancer
Suspected of causing cancer
Causes damage to organs through prolonged or repeated exposure
May cause damage to organs through prolonged or repeated exposure
Very toxic to aquatic life
Very toxic to aquatic life with long lasting effects
Toxic to aquatic life with long lasting effects
May cause long lasting harmful effects to aquatic life

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

SDS US (GHS HazCom)