

# SAFETY DATA SHEET

# 1. Identification

1. Identification		
Product identifier	Starter	
Other means of identification		
Product Number	72	
Recommended use	Plant Nutrients	
Recommended restrictions	None known.	
Manufacturer/Importer/Supplier	Distributor information	
Manufacturer		
Company name	Baicor LC	
Address	P.O. Box 725 Logan, UT 84323	
	United States	
Telephone	Not available.	
Website	www.baicor.com	
E-mail	Not available.	
Emergency phone number	Not available.	
2. Hazard(s) identification		
Physical hazards	Not classified.	
Health hazards	Acute toxicity, oral	Category 4
	Acute toxicity, dermal	Category 4
	Acute toxicity, inhalation	Category 4
	Serious eye damage/eye irritation	Category 2A
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 3
	Hazardous to the aquatic environment, long-term hazard	Category 3
OSHA defined hazards	Not classified.	
Label elements		
Signal word	Warning	
Hazard statement	Harmful if swallowed. Harmful in contact with s inhaled. Harmful to aquatic life. Harmful to aqu	
Precautionary statement		
Prevention		r handling. Do not eat, drink or smoke when using ntilated area. Avoid release to the environment. ear eye/face protection.
Response	inhaled: Remove person to fresh air and keep	u feel unwell. If on skin: Wash with plenty of water. If comfortable for breathing. If in eyes: Rinse nove contact lenses, if present and easy to do.

cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. Rinse mouth. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

Store away from incompatible materials.Products should be stored above 12.8°C (55°F).

Storage of bulk products is best suited for original manufacturing containers. If required, storage in a polypropylene storage tank with polypropylene fittings is recommended. Metal storage tanks and fittings are not recommended for long term.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Storage

None known.

17.62% of the mixture consists of component(s) of unknown acute oral toxicity. 32.58% of the mixture consists of component(s) of unknown acute dermal toxicity. 3.57% of the mixture consists of component(s) of unknown acute inhalation toxicity.

# 3. Composition/information on ingredients

**Mixtures** 

Chemical name	Common name and synonyms	CAS number	%
UREA		57-13-6	3 - < 5
MAGNESIUM CHLORIDE		7791-18-6	1 - < 3
MANGANESE SULPHATE		7785-87-7	1 - < 3
POTASSIUM NITRATE		7757-79-1	1 - < 3
TRADE SECRET*		Proprietary*	1 - < 3
ZINC SULFATE		7733-02-0	1 - < 3
COPPER (II) SULFATE PENTAHYDRATE		7758-99-8	< 0.2
COBALT SULPHATE		10124-43-3	< 0.1
Other components below reportable le	evels		80 - < 90

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

# 4. First-aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin contact	Wash off with soap and water. Get medical advice/attention if you feel unwell. Get medical attention if irritation develops and persists. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.
5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

### 6. Accidental release measures

o. Accidental release meas	
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of vapors and spray mists. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent product from entering drains. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.
7. Handling and storage	
Precautions for safe handling	Avoid inhalation of vapors and spray mists. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

#### **Occupational exposure limits** US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) Value Components Туре MANGANESE SULPHATE 5 mg/m3 Ceiling (CAS 7785-87-7) US. ACGIH Threshold Limit Values Components Form Type Value COBALT SULPHATE (CAS TWA 0.02 mg/m3 10124-43-3) MANGANESE SULPHATE TWA 0.1 mg/m3 Inhalable fraction. (CAS 7785-87-7) 0.02 mg/m3 Respirable fraction. TRADE SECRET TWA 1 mg/m3 US. NIOSH: Pocket Guide to Chemical Hazards Value Form Components Туре COPPER (II) SULFATE TWA 1 mg/m3 Dust and mist. PENTAHYDRATE (CAS 7758-99-8) MANGANESE SULPHATE STEL 3 mg/m3 Fume. (CAS 7785-87-7) TWA 1 mg/m3 Fume. TRADE SECRET TWA 1 mg/m3 US. Workplace Environmental Exposure Level (WEEL) Guides Value Form Components Type UREA (CAS 57-13-6) TWA 10 mg/m3 Total particulate. **Biological limit values ACGIH Biological Exposure Indices** Components Value Determinant Specimen Sampling Time COBALT SULPHATE (CAS 15 µg/I Cobalt Urine 10124-43-3)

ACGIH Biological Exposure	Indices			
Components V	/alue	Determinant	Specimen	Sampling Time
1	μg/l	Cobalt	Blood	*
* - For sampling details, pleas	se see the source doci	ument.		
Appropriate engineering controls	should be matched or other engineering	to conditions. If appl controls to maintain	icable, use proc airborne levels	our) should be used. Ventilation rates cess enclosures, local exhaust ventilation, s below recommended exposure limits. If borne levels to an acceptable level. Provide
Individual protection measures	, such as personal pr	otective equipmen	t	
Eye/face protection	Wear safety glasses	s with side shields (c	or goggles).	
Skin protection				
Hand protection	Wear appropriate ch supplier.	nemical resistant glo	ves. Suitable gl	oves can be recommended by the glove
Other	Wear appropriate cl	nemical resistant clo	thing.	
<b>Respiratory protection</b>	In case of insufficier	nt ventilation, wear s	uitable respirate	bry equipment.
Thermal hazards	Wear appropriate th	ermal protective clo	thing, when nec	essary.
General hygiene considerations		ing the material and	before eating, o	personal hygiene measures, such as drinking, and/or smoking. Routinely wash aminants.

# 9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Liquid.
Color	Brown
Odor	Slight.
Odor threshold	Not available.
рН	3.7
Melting point/freezing point	365.9 °F (185.5 °C) estimated
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	0.00001 hPa estimated
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.

Other information	
Percent volatile	64.54 % estimated
Specific gravity	1.24
VOC (Weight %)	2.63 % estimated

# 10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

# 11. Toxicological information

### Information on likely routes of exposure

Inhalation	Harmful if inhaled.
Skin contact	Harmful in contact with skin.
Eye contact	Causes serious eye irritation.
Ingestion	Harmful if swallowed.
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

### Information on toxicological effects

Acute toxicity

Harmful if inhaled. Harmful in contact with skin. Harmful if swallowed.

Components	Species	Test Results
COBALT SULPHATE (CA	S 10124-43-3)	
<u>Acute</u>		
Oral		
LD50	Mouse	584 mg/kg
	Rabbit	1800 mg/kg
	Rat	424 mg/kg
COPPER (II) SULFATE P	ENTAHYDRATE (CAS 7758-99-8)	
<u>Acute</u>		
Oral		
LD100	Mouse	50 mg/kg
LD50	Rat	960 mg/kg
MAGNESIUM CHLORIDE	(CAS 7791-18-6)	
<u>Acute</u>		
Oral		
LD50	Rat	2800 mg/kg
MANGANESE SULPHATI	E (CAS 7785-87-7)	
<u>Acute</u>		
Oral		
LD100	Mouse	305 mg/kg
POTASSIUM NITRATE (C	CAS 7757-79-1)	
Acute		
Oral	D 11 1	1100
LD50	Rabbit	1166 mg/kg

Components	Species		Test Results
JREA (CAS 57-13-6)			
<u>Acute</u>			
Oral	5.		o / = / //
LD50	Rat		8471 mg/kg
	Sheep		28500 mg/kg
ZINC SULFATE (CAS 7733-02-0	0)		
<u>Acute</u>			
Dermal	Ξ.		
LD50	Rat	:	> 2000 mg/kg
Oral			
LD50	Mouse		57 mg/kg
	Rat		623 mg/kg
* Estimates for product may	/ be based on a	additional component data not shown.	
Skin corrosion/irritation		skin contact may cause temporary irritation.	
Serious eye damage/eye irritation	-	rious eye irritation.	
Respiratory or skin sensitizati	on		
Respiratory sensitization		iratory sensitizer.	
Skin sensitization	This produ	ict is not expected to cause skin sensitization	1.
Germ cell mutagenicity		vailable to indicate product or any componen or genotoxic.	ts present at greater than 0.1% are
Carcinogenicity	This produ	ict is not considered to be a carcinogen by IA	ARC, ACGIH, NTP, or OSHA.
OSHA Specifically Regula	ted Substance	es (29 CFR 1910.1001-1050)	
Not listed. US. National Toxicology P	Program (NTP)	Report on Carcinogens	d to be a Human Carolinggan
Not listed. <b>US. National Toxicology P</b> COBALT SULPHATE (1	<b>Program (NTP</b> ) CAS 10124-43	Report on Carcinogens -3) Reasonably Anticipated	d to be a Human Carcinogen.
Not listed. US. National Toxicology P COBALT SULPHATE ( Reproductive toxicity	Program (NTP) CAS 10124-43 This produ	Report on Carcinogens         3-3)       Reasonably Anticipated         Ict is not expected to cause reproductive or cause	-
Not listed. US. National Toxicology P COBALT SULPHATE ( Reproductive toxicity Specific target organ toxicity - single exposure	Program (NTP) CAS 10124-43 This produ - Not classif	<b>Report on Carcinogens</b> -3) Reasonably Anticipated ict is not expected to cause reproductive or o ied.	-
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Not listed. US. National Toxicology P COBALT SULPHATE ( Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity -	Program (NTP) CAS 10124-43 This produ - Not classif - Not classif Not an asp	<b>Report on Carcinogens</b> (-3) Reasonably Anticipated ict is not expected to cause reproductive or o ied. ied. biration hazard.	-
Not listed. US. National Toxicology P COBALT SULPHATE ( Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure	Program (NTP) CAS 10124-43 This produ - Not classif - Not classif Not an asp	<b>Report on Carcinogens</b> (H-3) Reasonably Anticipated for is not expected to cause reproductive or o ried.	-
Not listed. US. National Toxicology P COBALT SULPHATE ( Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Chronic effects	Program (NTP) CAS 10124-43 This produ Not classif Not classif Not an asp Prolonged	<b>Report on Carcinogens</b> (-3) Reasonably Anticipated ict is not expected to cause reproductive or o ied. ied. biration hazard.	-
Not listed. US. National Toxicology P COBALT SULPHATE ( Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Chronic effects 12. Ecological informatic	Program (NTP) CAS 10124-43 This produ - Not classif Not classif Not an asp Prolonged	PReport on Carcinogens Reasonably Anticipated act is not expected to cause reproductive or o ried. ried. piration hazard. inhalation may be harmful.	-
Not listed. US. National Toxicology P COBALT SULPHATE ( Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Chronic effects 12. Ecological informatic Ecotoxicity	Program (NTP) CAS 10124-43 This produ - Not classif Not classif Not an asp Prolonged	<b>Report on Carcinogens</b> 9-3)       Reasonably Anticipated         ict is not expected to cause reproductive or or         ied.         ied.         biration hazard.         inhalation may be harmful.         aquatic life with long lasting effects.	levelopmental effects.
Not listed. US. National Toxicology P COBALT SULPHATE ( Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Chronic effects 12. Ecological informatic Ecotoxicity Components	Program (NTP) CAS 10124-43 This produ - Not classif Not classif Not an asp Prolonged DN Harmful to	PReport on Carcinogens Reasonably Anticipated act is not expected to cause reproductive or o ried. ried. piration hazard. inhalation may be harmful.	-
Not listed. US. National Toxicology P COBALT SULPHATE ( Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Chronic effects 12. Ecological informatic Ecotoxicity	Program (NTP) CAS 10124-43 This produ - Not classif Not classif Not an asp Prolonged DN Harmful to	<b>Report on Carcinogens</b> 9-3)       Reasonably Anticipated         ict is not expected to cause reproductive or or         ied.         ied.         biration hazard.         inhalation may be harmful.         aquatic life with long lasting effects.	levelopmental effects.
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Not listed. US. National Toxicology P COBALT SULPHATE (C Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Chronic effects 12. Ecological informatic Ecotoxicity Components COBALT SULPHATE (CAS Aquatic Fish	Program (NTP) CAS 10124-43 This produ Not classif Not an asp Prolonged Dn Harmful to 10124-43-3) LC50	<b>Report on Carcinogens</b> 9-3)       Reasonably Anticipated         ict is not expected to cause reproductive or or         ied.         ied.         biration hazard.         inhalation may be harmful.         aquatic life with long lasting effects.         Species         Fathead minnow (Pimephales promelas)	developmental effects.
Not listed. US. National Toxicology P COBALT SULPHATE (C Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Chronic effects 12. Ecological information Ecotoxicity Components COBALT SULPHATE (CAS Aquatic Fish COPPER (II) SULFATE PER	Program (NTP) CAS 10124-43 This produ Not classif Not an asp Prolonged Dn Harmful to 10124-43-3) LC50	<b>Report on Carcinogens</b> 9-3)       Reasonably Anticipated         ict is not expected to cause reproductive or or         ied.         ied.         biration hazard.         inhalation may be harmful.         aquatic life with long lasting effects.         Species         Fathead minnow (Pimephales promelas)	developmental effects.
Not listed. US. National Toxicology P COBALT SULPHATE (C Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Chronic effects 12. Ecological informatic Ecotoxicity Components COBALT SULPHATE (CAS Aquatic Fish COPPER (II) SULFATE PEI Aquatic	Program (NTP) CAS 10124-43 This produ Not classif Not classif Not an asp Prolonged DN Harmful to 10124-43-3) LC50 NTAHYDRATE	<b>Report on Carcinogens</b> 8-3)       Reasonably Anticipated         ict is not expected to cause reproductive or or         ied.         ied.         biration hazard.         inhalation may be harmful.         aquatic life with long lasting effects.         Species         Fathead minnow (Pimephales promelas)         E (CAS 7758-99-8)	developmental effects.         Test Results         s) 2.67 - 4.57 mg/l, 96 hours         0.0058 - 0.0073 mg/l, 48 hours
Not listed. US. National Toxicology P COBALT SULPHATE (C Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Chronic effects 12. Ecological informatic Ecotoxicity Components COBALT SULPHATE (CAS Aquatic Fish COPPER (II) SULFATE PEI Aquatic Crustacea Fish	Program (NTP) CAS 10124-43 This produ Not classif Not an asp Prolonged DN Harmful to 10124-43-3) LC50 NTAHYDRATE EC50 LC50	<b>Report on Carcinogens</b> 8-3)       Reasonably Anticipated         ict is not expected to cause reproductive or or         ied.         ied.         biration hazard.         inhalation may be harmful.         aquatic life with long lasting effects.         Species         Fathead minnow (Pimephales promelas         (CAS 7758-99-8)         Water flea (Daphnia magna)         Bluegill (Lepomis macrochirus)	Test Results s) 2.67 - 4.57 mg/l, 96 hours
Not listed. US. National Toxicology P COBALT SULPHATE (C Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Chronic effects 12. Ecological informatic Ecotoxicity Components COBALT SULPHATE (CAS Aquatic Fish COPPER (II) SULFATE PER Aquatic Crustacea Fish MAGNESIUM CHLORIDE (C	Program (NTP) CAS 10124-43 This produ Not classif Not an asp Prolonged DN Harmful to 10124-43-3) LC50 NTAHYDRATE EC50 LC50	<b>Report on Carcinogens</b> 8-3)       Reasonably Anticipated         ict is not expected to cause reproductive or or         ied.         ied.         biration hazard.         inhalation may be harmful.         aquatic life with long lasting effects.         Species         Fathead minnow (Pimephales promelas         (CAS 7758-99-8)         Water flea (Daphnia magna)         Bluegill (Lepomis macrochirus)	developmental effects.         Test Results         s) 2.67 - 4.57 mg/l, 96 hours         0.0058 - 0.0073 mg/l, 48 hours
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Components		Species	Test Results
MANGANESE SULPHAT	E (CAS 7785-87-7)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	7.09 - 9.36 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	24.3 - 38.9 mg/l, 96 hours
POTASSIUM NITRATE (	CAS 7757-79-1)		
Aquatic			
Fish	LC50	Western mosquitofish (Gambusia affinis)	22.5 mg/l, 96 hours
UREA (CAS 57-13-6)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	3910 mg/l, 48 hours
Fish	LC50	Giant gourami (Colisa fasciata)	5 mg/l, 96 hours
ZINC SULFATE (CAS 77	33-02-0)		
Aquatic			
Crustacea	EC50	Rotifer (Philodina acuticornis)	0.3 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	0.162 mg/l, 96 hours

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)			
UREA	-2.11		
Mobility in soil	No data available.		
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.		

# 13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

# 14. Transport information

#### DOT

Not regulated as dangerous goods.

# IATA

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

# Transport in bulk according to Not established. Annex II of MARPOL 73/78 and the IBC Code

# 15. Regulatory information

# US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. One or more components are not listed on TSCA.

TSCA Section 12(b) Export Not regulated.		• •		
CERCLA Hazardous Substa	ance List (40 CFR 302.4)			
COBALT SULPHATE (C		Listed.		
MANGANESE SULPHAT	,	Listed.		
ZINC SULFATE (CAS 77		Listed.		
SARA 304 Emergency relea	se notification			
Not regulated. OSHA Specifically Regulate Not listed.	ed Substances (29 CFR 1910	).1001-1050)		
perfund Amendments and Re	eauthorization Act of 1986 (	SARA)		
Hazard categories	Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No			
SARA 302 Extremely hazard Not listed.	dous substance			
SARA 311/312 Hazardous chemical	No			
SARA 313 (TRI reporting) Chemical name		CAS number	% by wt.	
MANGANESE SULPHAT	ſE	7785-87-7	1 - < 3	_
		7757-79-1	1 - < 3	
ZINC SULFATE		7733-02-0	1 - < 3	
her federal regulations Clean Air Act (CAA) Sectior				
	AS 10124-43-3)			
MANGANESE SULPHAT	TE (CAS 7785-87-7)	Prevention (40 CER	68 130)	
MANGANESE SULPHAT Clean Air Act (CAA) Section	TE (CAS 7785-87-7)	Prevention (40 CFR	68.130)	
MANGANESE SULPHAT Clean Air Act (CAA) Section Not regulated. Safe Drinking Water Act	TE (CAS 7785-87-7)	Prevention (40 CFR	68.130)	
MANGANESE SULPHAT Clean Air Act (CAA) Section Not regulated. Safe Drinking Water Act (SDWA)	re (CAS 7785-87-7) n 112(r) Accidental Release	Prevention (40 CFR	68.130)	
MANGANESE SULPHAT Clean Air Act (CAA) Section Not regulated. Safe Drinking Water Act (SDWA) S state regulations	rE (CAS 7785-87-7) n <b>112(r) Accidental Release</b> Not regulated.			code Section 11100)
MANGANESE SULPHAT Clean Air Act (CAA) Section Not regulated. Safe Drinking Water Act (SDWA) S state regulations US. California Controlled Section	rE (CAS 7785-87-7) n <b>112(r) Accidental Release</b> Not regulated.			Code Section 11100)
MANGANESE SULPHAT Clean Air Act (CAA) Section Not regulated. Safe Drinking Water Act (SDWA) S state regulations	<pre>IE (CAS 7785-87-7) 112(r) Accidental Release Not regulated. ubstances. CA Department</pre>	of Justice (Californi	a Health and Safety C	
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### US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

#### US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

COBALT SULPHATE (CAS 10124-43-3) Listed: May 20, 2005

#### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# 16. Other information, including date of preparation or last revision

Issue date	09-03-2015
Version #	01
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.