# SAFETY DATA SHEET



# 1. Identification

Product identifier	Grigg P-K Plus (No Phos)	
Other means of identification Product code	32195	
Recommended use	Turf- fertilizer	
Recommended restrictions	Refer to product label.	
Manufacturer/Importer/Supplier/I	Distributor information	
Manufacturer		
Company name Address	Brandt Consolidated, Inc. 2935 South Koke Mill Road Springfield, IL 62711 United States	
Telephone Website E-mail Contact person	Corporate Office www.brandt.co msds@brandt.co EH&S / Regulatory Departm	1-217-547-5800 ent
Emergency phone number	CHEMTREC (24 hours): USA, Canada, Puerto Rico Virgin Islands International Maritime	1-800-424-9300 1-800-424-9300 +1 (703) 527-3887

# 2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Carcinogenicity	Category 1B
	Reproductive toxicity	Category 2
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	

Label elements



Signal word	Danger
Hazard statement	May cause cancer. Suspected of damaging fertility or the unborn child.
Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection.
Response	If exposed or concerned: Get medical advice/attention.
Storage	Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

# 3. Composition/information on ingredients

### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Urea		57-13-6	5 - < 10*
Disodium Octaborate Tetrahydrate		12008-41-2	< 0.2*

Chemical name	Common name and synonyms	CAS number	%		
Cobalt Sulfate, Monohydrate		10124-43-3	< 0.1*		
Other components below report			90 - 100		
Designates that a specific chemic	al identity and/or percentage of composition has	s been withheid as a trade sec	ret.		
I. First-aid measures					
nhalation	Move to fresh air. Call a physician if symptom	s develop or persist.			
Skin contact	Wash off with soap and water. Get medical at	tention if irritation develops and	d persists.		
eye contact	Rinse with water. Get medical attention if irritation develops and persists.				
ngestion	Rinse mouth. Get medical attention if sympton	ms occur.			
Nost important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.				
ndication of immediate nedical attention and special reatment needed	Provide general supportive measures and treas Symptoms may be delayed.	at symptomatically. Keep victin	n under observatior		
General information	IF exposed or concerned: Get medical advice (show the label where possible). Ensure that involved, and take precautions to protect then attendance.	medical personnel are aware o	f the material(s)		
5. Fire-fighting measures					
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carb	on dioxide (CO2).			
Jnsuitable extinguishing nedia	Do not use water jet as an extinguisher, as thi				
Specific hazards arising from he chemical	During fire, gases hazardous to health may be	e formed.			
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full pr	otective clothing must be worr	in case of fire.		
Fire fighting equipment/instructions	Move containers from fire area if you can do s				
Specific methods	Use standard firefighting procedures and cons	sider the hazards of other invol	lved materials.		
General fire hazards	No unusual fire or explosion hazards noted.				
6. Accidental release meas	sures				
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep per appropriate protective equipment and clothing authorities should be advised if significant spil see section 8 of the SDS.	during clean-up. Ensure adec	uate ventilation. Lo		
Methods and materials for containment and cleaning up	Large Spills: Stop the flow of material, if this is possible. Absorb in vermiculite, dry sand or earecovery, flush area with water.				
	Small Spills: Wipe up with absorbent material remove residual contamination.	(e.g. cloth, fleece). Clean surfa	ace thoroughly to		
	Never return spills to original containers for re containers. For waste disposal, see section 13		covered, labeled		
Environmental precautions	Avoid discharge into drains, water courses or	onto the ground.			
7. Handling and storage					
Precautions for safe handling	Obtain special instructions before use. Do not and understood. Avoid prolonged exposure. F this product. Should be handled in closed sys appropriate personal protective equipment. O	Pregnant or breastfeeding wom tems, if possible. Provide adec bserve good industrial hygiene	en must not handle juate ventilation. W practices.		
Conditions for safe storage, ncluding any incompatibilities	Store locked up. Store in tightly closed contain Section 10 of the SDS).	ner. Store away from incompat	ible materials (see		

## 8. Exposure controls/personal protection

### **Occupational exposure limits**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. ACGIH Threshold Lin Components	int values	Туре	Va	alue	Form
Cobalt Sulfate, Monohydrate (CAS 10124-43-3)		TWA	0.	02 mg/m3	
Disodium Octaborate Tetrahydrate (CAS 12008-41-2)		STEL	6	mg/m3	Inhalable fraction.
		TWA	2	mg/m3	Inhalable fraction.
US. Workplace Environm Components	าental Exposure Lo	evel (WEEL) Guides Type	Vá	alue	Form
Urea (CAS 57-13-6)		TWA	10	) mg/m3	Total particulate.
iological limit values					
ACGIH Biological Expos	ure Indices				
Components	Value	Determinant	Specimen	Sampling	g Time
Cobalt Sulfate, Monohydrate (CAS 10124-43-3)	15 µg/l	Cobalt	Urine	*	
* - For sampling details, pl	ease see the sourc	e document			
		e document.			
ppropriate engineering ontrols	Good general should be ma or other engin	ventilation (typically 10 tched to conditions. If ap	oplicable, use pro ain airborne leve	cess enclosu Is below reco	be used. Ventilation rates ures, local exhaust ventilation ommended exposure limits. If to an acceptable level.
ppropriate engineering ontrols	Good general should be ma or other engin exposure limit	ventilation (typically 10 tched to conditions. If ap leering controls to maint ts have not been establis	oplicable, use pro ain airborne leve shed, maintain ai	cess enclosu Is below reco	ures, local exhaust ventilation mmended exposure limits. If
ppropriate engineering	Good general should be ma or other engin exposure limit <b>res, such as perso</b>	ventilation (typically 10 tched to conditions. If ap leering controls to maint ts have not been establis	oplicable, use pro ain airborne leve shed, maintain ai ent	ocess enclosu Is below reco rborne levels	ures, local exhaust ventilation mmended exposure limits. If
ppropriate engineering ontrols idividual protection measur	Good general should be ma or other engin exposure limit <b>res, such as perso</b>	ventilation (typically 10 tched to conditions. If ap leering controls to maint ts have not been establis nal protective equipme	oplicable, use pro ain airborne leve shed, maintain ai ent	ocess enclosu Is below reco rborne levels	ures, local exhaust ventilation mmended exposure limits. If
ppropriate engineering ontrols dividual protection measur Eye/face protection	Good general should be ma or other engin exposure limit res, such as perso Chemical resp	ventilation (typically 10 tched to conditions. If ap leering controls to maint ts have not been establis nal protective equipme	oplicable, use pro ain airborne leve shed, maintain ai ent r cartridge and fu	ocess enclosu Is below reco rborne levels	ures, local exhaust ventilation mmended exposure limits. If
ppropriate engineering ontrols dividual protection measur Eye/face protection Skin protection	Good general should be ma or other engin exposure limit res, such as perso Chemical resp Wear appropr	ventilation (typically 10 tched to conditions. If ap leering controls to mainta ts have not been establis <b>nal protective equipme</b> pirator with organic vapo	pplicable, use pro ain airborne leve shed, maintain ai ent r cartridge and fu gloves.	ocess enclosu Is below reco rborne levels	ures, local exhaust ventilation mmended exposure limits. If
ppropriate engineering ontrols dividual protection measur Eye/face protection Skin protection Hand protection	Good general should be ma or other engin exposure limit res, such as perso Chemical resp Wear appropr Use of an imp	ventilation (typically 10 tched to conditions. If ap leering controls to mainta ts have not been establis <b>nal protective equipme</b> pirator with organic vapo	pplicable, use pro ain airborne leve shed, maintain ai ent r cartridge and fu gloves. nended.	ocess enclosu Is below reco rborne levels ull facepiece.	ures, local exhaust ventilation ommended exposure limits. If to an acceptable level.
ppropriate engineering ontrols dividual protection measur Eye/face protection Skin protection Hand protection Other	Good general should be mai or other engin exposure limit res, such as perso Chemical resp Wear appropr Use of an imp Chemical resp	ventilation (typically 10 tched to conditions. If ap teering controls to mainta ts have not been establis <b>nal protective equipme</b> pirator with organic vapo	oplicable, use pro ain airborne leve shed, maintain ai ent or cartridge and fu gloves. nended. or cartridge and fu	ull facepiece.	ures, local exhaust ventilation ommended exposure limits. If to an acceptable level.
ppropriate engineering ontrols dividual protection measur Eye/face protection Skin protection Hand protection Other Respiratory protection	Good general should be mai or other engin exposure limit res, such as perso Chemical resp Wear appropr Use of an imp Chemical resp Wear appropr Observe any n measures, su	ventilation (typically 10 tched to conditions. If ap leering controls to mainta ts have not been establis <b>nal protective equipme</b> pirator with organic vapo riate chemical resistant g pervious apron is recommo pirator with organic vapo	oplicable, use pro ain airborne leve shed, maintain ai ent or cartridge and fu ploves. nended. or cartridge and fu clothing, when ne uirements. Alway dling the materia	ull facepiece. cessary. ys observe ge and before of	ures, local exhaust ventilation ommended exposure limits. If to an acceptable level. bod personal hygiene eating, drinking, and/or
ppropriate engineering ontrols adividual protection measur Eye/face protection Skin protection Hand protection Other Respiratory protection Thermal hazards eneral hygiene onsiderations	Good general should be may or other engin exposure limit res, such as perso Chemical resp Wear appropr Use of an imp Chemical resp Wear appropr Observe any i measures, su smoking. Rou	ventilation (typically 10 tched to conditions. If ap ieering controls to maint ts have not been establis <b>nal protective equipme</b> pirator with organic vapo riate chemical resistant g pervious apron is recommo pirator with organic vapo riate thermal protective comedical surveillance req ch as washing after hand	oplicable, use pro ain airborne leve shed, maintain ai ent or cartridge and fu ploves. nended. or cartridge and fu clothing, when ne uirements. Alway dling the materia	ull facepiece. cessary. ys observe ge and before of	ures, local exhaust ventilation ommended exposure limits. If to an acceptable level. bod personal hygiene eating, drinking, and/or
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ppropriate engineering ontrols dividual protection measur Eye/face protection Skin protection Hand protection Other Respiratory protection Thermal hazards eneral hygiene onsiderations . Physical and chemica ppearance	Good general should be mai or other engin exposure limit res, such as perso Chemical resp Wear appropr Use of an imp Chemical resp Wear appropr Observe any measures, su smoking. Rou	ventilation (typically 10 tched to conditions. If ap ieering controls to maint ts have not been establis <b>nal protective equipme</b> pirator with organic vapo riate chemical resistant g pervious apron is recommo pirator with organic vapo riate thermal protective comedical surveillance req ch as washing after hand	oplicable, use pro ain airborne leve shed, maintain ai ent or cartridge and fu ploves. nended. or cartridge and fu clothing, when ne uirements. Alway dling the materia	ull facepiece. cessary. ys observe ge and before of	ures, local exhaust ventilation ommended exposure limits. If to an acceptable level. bod personal hygiene eating, drinking, and/or
ppropriate engineering ontrols dividual protection measur Eye/face protection Skin protection Hand protection Other Respiratory protection Thermal hazards eneral hygiene onsiderations . Physical and chemica ppearance Physical state	Good general should be mai or other engin exposure limit res, such as perso Chemical resp Wear appropr Use of an imp Chemical resp Wear appropr Observe any r measures, su smoking. Rou al properties Liquid.	ventilation (typically 10 tched to conditions. If ap leering controls to mainta ts have not been establis <b>nal protective equipme</b> pirator with organic vapo riate chemical resistant g pervious apron is recommo pirator with organic vapo riate thermal protective c medical surveillance req ch as washing after hand utinely wash work clothir	oplicable, use pro ain airborne leve shed, maintain ai ent or cartridge and fu ploves. nended. or cartridge and fu clothing, when ne uirements. Alway dling the materia	ull facepiece. cessary. ys observe ge and before of	ures, local exhaust ventilatior ommended exposure limits. If to an acceptable level. bod personal hygiene eating, drinking, and/or
ppropriate engineering ontrols dividual protection measur Eye/face protection Skin protection Hand protection Other Respiratory protection Thermal hazards eneral hygiene onsiderations . Physical and chemica ppearance Physical state Form	Good general should be mai or other engin exposure limit res, such as perso Chemical resp Wear appropr Use of an imp Chemical resp Wear appropr Observe any n measures, su smoking. Rou al properties Liquid. Liquid.	ventilation (typically 10 tched to conditions. If ap leering controls to mainta is have not been establis <b>nal protective equipme</b> pirator with organic vapo riate chemical resistant g pervious apron is recommo pirator with organic vapo riate thermal protective comedical surveillance req ch as washing after hand utinely wash work clothin	oplicable, use pro ain airborne leve shed, maintain ai ent or cartridge and fu ploves. nended. or cartridge and fu clothing, when ne uirements. Alway dling the materia	ull facepiece. cessary. ys observe ge and before of	ures, local exhaust ventilatior ommended exposure limits. If to an acceptable level. bod personal hygiene eating, drinking, and/or

Melting point/freezing point

Flammability (solid, gas)

Initial boiling point and boiling

pН

range Flash point

**Evaporation rate** 

Not available.

Not available.

Not available.

Not available.

Not applicable.

270.86 °F (132.7 °C) estimated

### Upper/lower flammability or explosive limits

opper/lower flammability or explosive 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	1.306 g/cm3 (typical)				
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					
Explosive properties	Not explosive.				
Oxidizing properties	Not oxidizing.				
Percent volatile	49.98 % estimated				
Pounds per gallon	10.9 lb/gal (typical)				
VOC	2.77 % 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	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. 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	Prolonged inhalation may be harmful.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.

### Information on toxicological effects

Acute toxicity	Not known.	
Product	Species	Test Results
Grigg P-K Plus (No Phos)		
Acute		
Inhalation		
LD50	Rat	31920 mg/l, 4 hours
Oral		
LD50	Rat	2000 g/kg

•	Species		Test Results
Disodium Octaborate Tetrahydrat	e (CAS 12008-4	11-2)	
<u>Acute</u>			
Dermal			
LD50	Rabbit	;	> 2000 mg/kg
Oral			
LD50	Rat	2	2550 mg/kg
Jrea (CAS 57-13-6)			
Acute			
Oral	_		
LD50	Rat	8	3471 mg/kg
Skin corrosion/irritation	Prolonged sk	in contact may cause temporary irritation.	
Serious eye damage/eye rritation	Direct contac	t with eyes may cause temporary irritation	
Respiratory or skin sensitizatio	n		
Respiratory sensitization	Not a respira	tory sensitizer.	
Skin sensitization	•	is not expected to cause skin sensitization	
Germ cell mutagenicity	No data avai mutagenic or	lable to indicate product or any componen genotoxic.	ts present at greater than 0.1% are
Carcinogenicity	May cause c	ancer.	
IARC Monographs. Overall Not listed. OSHA Specifically Regulate			
Not regulated.			
US. National Toxicology Pr			
Cobalt Sulfate, Monohyd	Irate (CAS 1012	24-43-3) Reasonably Anticipated	I to be a Human Carcinogen.
Cobalt Sulfate, Monohyd Reproductive toxicity	Irate (CAS 1012 Suspected of	A-43-3) Reasonably Anticipated f damaging fertility or the unborn child.	l to be a Human Carcinogen.
Cobalt Sulfate, Monohyd Reproductive toxicity Specific target organ toxicity - single exposure	Irate (CAS 1012 Suspected of Not classified	Reasonably Anticipated f damaging fertility or the unborn child.	l to be a Human Carcinogen.
Cobalt Sulfate, Monohyd Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity -	Irate (CAS 1012 Suspected of	Reasonably Anticipated f damaging fertility or the unborn child.	l to be a Human Carcinogen.
Cobalt Sulfate, Monohyd Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - epeated exposure	Irate (CAS 1012 Suspected of Not classified	Reasonably Anticipated f damaging fertility or the unborn child. d.	to be a Human Carcinogen.
Cobalt Sulfate, Monohyd Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - epeated exposure Aspiration hazard	Irate (CAS 1012 Suspected of Not classified Not classified Not an aspira	Reasonably Anticipated f damaging fertility or the unborn child. d.	l to be a Human Carcinogen.
Cobalt Sulfate, Monohyd Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Chronic effects	Irate (CAS 1012 Suspected of Not classified Not classified Not an aspira Prolonged in	Reasonably Anticipated f damaging fertility or the unborn child. d. d.	t to be a Human Carcinogen.
Cobalt Sulfate, Monohyd Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Chronic effects 12. Ecological information	Irate (CAS 1012 Suspected of Not classified Not classified Not an aspira Prolonged ini n The product i	Reasonably Anticipated f damaging fertility or the unborn child. d. d.	ous. However, this does not exclude the
Cobalt Sulfate, Monohyd Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - epeated exposure Aspiration hazard Chronic effects	Irate (CAS 1012 Suspected of Not classified Not classified Not an aspira Prolonged ini n The product i	Reasonably Anticipated f damaging fertility or the unborn child. d. d. ation hazard. halation may be harmful. is not classified as environmentally hazard	ous. However, this does not exclude the
Cobalt Sulfate, Monohyd Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - epeated exposure Aspiration hazard Chronic effects 12. Ecological information Ecotoxicity	Irate (CAS 1012 Suspected of Not classified Not classified Not an aspira Prolonged ini n The product i	Reasonably Anticipated f damaging fertility or the unborn child. d. d. ation hazard. halation may be harmful. is not classified as environmentally hazard at large or frequent spills can have a harm	ous. However, this does not exclude the ful or damaging effect on the environment
Cobalt Sulfate, Monohyd Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - epeated exposure Aspiration hazard Chronic effects 12. Ecological information Ecotoxicity Product	Irate (CAS 1012 Suspected of Not classified Not classified Not an aspira Prolonged ini n The product i	Reasonably Anticipated f damaging fertility or the unborn child. d. d. ation hazard. halation may be harmful. is not classified as environmentally hazard at large or frequent spills can have a harm	ous. However, this does not exclude the ful or damaging effect on the environment
Cobalt Sulfate, Monohyd Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - epeated exposure Aspiration hazard Chronic effects 12. Ecological information Ecotoxicity Product Grigg P-K Plus (No Phos)	Irate (CAS 1012 Suspected of Not classified Not classified Not an aspira Prolonged ini n The product i	Reasonably Anticipated f damaging fertility or the unborn child. d. d. ation hazard. halation may be harmful. is not classified as environmentally hazard at large or frequent spills can have a harm	ous. However, this does not exclude the ful or damaging effect on the environment
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Cobalt Sulfate, Monohyd Reproductive toxicity Specific target organ toxicity - ingle exposure Specific target organ toxicity - epeated exposure Aspiration hazard Chronic effects I2. Ecological information Ecotoxicity Product Grigg P-K Plus (No Phos) Aquatic Crustacea Fish	Irate (CAS 1012 Suspected of Not classified Not classified Not an aspira Prolonged ini n The product i possibility tha	A-43-3) Reasonably Anticipated f damaging fertility or the unborn child. d. d. ation hazard. halation may be harmful. is not classified as environmentally hazard at large or frequent spills can have a harm <b>Species</b> Daphnia Fish	ous. However, this does not exclude the ful or damaging effect on the environment <b>Test Results</b> 90756.6484 mg/l, 48 hours
Cobalt Sulfate, Monohyd Reproductive toxicity Specific target organ toxicity - ingle exposure Specific target organ toxicity - epeated exposure Aspiration hazard Shronic effects 2. Ecological information Scotoxicity Product Grigg P-K Plus (No Phos) Aquatic Crustacea Fish Components	Irate (CAS 1012 Suspected of Not classified Not classified Not an aspira Prolonged in The product i possibility tha EC50 LC50	A4-43-3) Reasonably Anticipated f damaging fertility or the unborn child. d. d. d. d. d. d. d. d. d. d. d. d. d	ous. However, this does not exclude the ful or damaging effect on the environment <b>Test Results</b> 90756.6484 mg/l, 48 hours 111537.1563 mg/l, 96 hours
Cobalt Sulfate, Monohyd Reproductive toxicity Specific target organ toxicity - ingle exposure Specific target organ toxicity - epeated exposure Aspiration hazard Chronic effects 2. Ecological information Ecotoxicity Product Grigg P-K Plus (No Phos) Aquatic Crustacea Fish Components Cobalt Sulfate, Monohydrate	Irate (CAS 1012 Suspected of Not classified Not classified Not an aspira Prolonged in The product i possibility tha EC50 LC50	A4-43-3) Reasonably Anticipated f damaging fertility or the unborn child. d. d. d. d. d. d. d. d. d. d. d. d. d	ous. However, this does not exclude the ful or damaging effect on the environment <b>Test Results</b> 90756.6484 mg/l, 48 hours 111537.1563 mg/l, 96 hours
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Cobalt Sulfate, Monohyd Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - epeated exposure Aspiration hazard Chronic effects 12. Ecological information Ecotoxicity Product Grigg P-K Plus (No Phos) Aquatic Crustacea Fish Components Cobalt Sulfate, Monohydrate Aquatic Fish	Irate (CAS 1012 Suspected of Not classified Not classified Not an aspira Prolonged ini n The product i possibility tha EC50 LC50 (CAS 10124-43 LC50	A4-43-3) Reasonably Anticipated f damaging fertility or the unborn child. d. d. d. d. d. d. d. d. d. d. d. d. d	ous. However, this does not exclude the ful or damaging effect on the environment <b>Test Results</b> 90756.6484 mg/l, 48 hours 111537.1563 mg/l, 96 hours <b>Test Results</b>
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Cobalt Sulfate, Monohyd Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - epeated exposure Aspiration hazard Chronic effects 12. Ecological information Ecotoxicity Product Grigg P-K Plus (No Phos) Aquatic Crustacea Fish Components Cobalt Sulfate, Monohydrate Aquatic Fish Disodium Octaborate Tetrahy	Irate (CAS 1012 Suspected of Not classified Not classified Not an aspira Prolonged ini n The product i possibility tha EC50 LC50 (CAS 10124-43 LC50	A4-43-3) Reasonably Anticipated f damaging fertility or the unborn child. d. d. d. d. d. d. d. d. d. d. d. d. d	ous. However, this does not exclude the ful or damaging effect on the environment <b>Test Results</b> 90756.6484 mg/l, 48 hours 111537.1563 mg/l, 96 hours <b>Test Results</b>
Cobalt Sulfate, Monohyd Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Chronic effects 12. Ecological information Ecotoxicity Product Grigg P-K Plus (No Phos) Aquatic Crustacea Fish Components Cobalt Sulfate, Monohydrate Aquatic Fish Disodium Octaborate Tetrahy Aquatic	Irate (CAS 1012 Suspected of Not classified Not classified Not an aspira Prolonged ini n The product i possibility tha EC50 LC50 (CAS 10124-43 LC50	A4-43-3) Reasonably Anticipated f damaging fertility or the unborn child. d. d. d. d. d. d. d. d. d. d. d. d. d	ous. However, this does not exclude the ful or damaging effect on the environment <b>Test Results</b> 90756.6484 mg/l, 48 hours 111537.1563 mg/l, 96 hours <b>Test Results</b>

Components		Species	Test Results
Urea (CAS 57-13-6)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	3910 mg/l, 48 hours
Fish	LC50	Carp (Leuciscus idus melanotus)	> 10000 mg/l, 48 hours
		Guppy (Poecilia reticulata)	16200 - 18300 mg/l, 96 hours
		Harlequinfish, red rasbora (Rasbora heteromorpha)	12000 mg/l, 96 hours
		Mozambique tilapia (Tilapia mossambica)	590 - 730 mg/l, 96 hours
ersistence and degradability	No data is a	vailable on the degradability of any ingred	ients in the mixture.
ioaccumulative potential			
Partition coefficient n-octa	nol / water (log	Kow)	
Urea		-2.11	
lobility in soil	No data avai	lable.	
other adverse effects		rerse environmental effects (e.g. ozone de docrine disruption, global warming potentia	1 / 1
3. Disposal consideration	ons		
isposal instructions		eclaim or dispose in sealed containers at tainer in accordance with local/regional/na	
ocal disposal regulations	Dispose in a	ccordance with all applicable regulations.	
lazardous waste code	The waste co disposal com	•	veen the user, the producer and the waste
Vaste from residues / unused roducts		accordance with local regulations. Empty lues. This material and its container must ructions).	
ontaminated packaging		ed containers may retain product residue, t	follow label warnings even after container

emptied. Empty containers should be taken to an approved waste handling site for recycling or

## 14. Transport information

### DOT

Not regulated as dangerous goods.

disposal.

## ΙΑΤΑ Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

# 15 Regulatory information

15. Regulatory informat	on	
US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.	
TSCA Section 12(b) Expo	rt Notification (40 CFR 707, S	ubpt. D)
Not regulated.		
CERCLA Hazardous Sub	stance List (40 CFR 302.4)	
Cobalt Sulfate, Monohydrate (CAS 10124-43-3)		Listed.
SARA 304 Emergency rel	ease notification	
Not regulated.		
OSHA Specifically Regula	ated Substances (29 CFR 1910	).1001-1052)
Not regulated.		
Superfund Amendments and	Reauthorization Act of 1986 (	SARA)
SARA 302 Extremely haz	ardous substance	
Not listed.		
SARA 311/312 Hazardous	Yes	

#### chemical

Classified hazard categories Carcinogenicity Reproductive toxicity

#### SARA 313 (TRI reporting) Not regulated.

#### Other federal regulations

### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Cobalt Sulfate, Monohydrate (CAS 10124-43-3)

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Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
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Not regulated.

Safe Drinking Water Act Not regulated. (SDWA)

#### **US state regulations**

#### **California Proposition 65**



**WARNING:** WARNING: This product can expose you to chemicals including arsenic, cadmium, and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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

Cobalt Sulfate, Monohydrate (CAS 10124-43-3) Listed: May 20, 2005

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Cobalt Sulfate, Monohydrate (CAS 10124-43-3) Disodium Octaborate Tetrahydrate (CAS 12008-41-2)

#### International Inventories

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

\*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	06-10-2019
Version #	01
Disclaimer	The information provided in this Safety Data Sheet is correct to the best of Manufacturer's knowledge, information and belief at the date of its publication; however, it is provided only as a guidance for safe handling, use, processing, storage, transportation, disposal and release of the Product. No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made with respect to the Product or the information provided herein, or that the Product or information herein may be used without infringing the intellectual property rights of others. The information provided in this Safety Data Sheet relates only to the specific Product designated and may not be valid if the Product is used in combination with other materials or in any other process, unless specified herein. The user assumes all risk and liability for loss, injury, damage or expense due to any use, handling, storage or disposal of the Product, and Manufacturer recommends that the user conducts its owns tests of the Product to determine suitability of the Product for user's particular use.