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

THE MAGRUDER FERTILIZER CHECK SAMPLE 180512 has been prepared for laboratory analysis by grinding to a fine powder. These SDS apply to the original fertilizer base and additive as received from the manufacturer.

SECTION 1: Identification of the su	ibstance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixture
Product name	: Triple Superphosphate 0-45-0
Product code	: M12030
1.2. Relevant identified uses of the su	bstance or mixture and uses advised against
1.3. Details of the supplier of the safet	y data sheet
JR Simplot Company P.O. Box 70013 Boise, ID 83707 T 1-208-336-2110	
1.4. Emergency telephone number	
Emergency number	: CHEMTREC 1-800-424-9300
SECTION 2: Hazards identification	
2.1. Classification of the substance or	mixture
Classification (GHS-US)	
Skin Irrit. 2 H315 Eye Irrit. 2B H320 STOT SE 3 H335	
Full text of H-phrases: see section 16	
2.2. Label elements	
GHS-US labeling	
	GHS07
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	:H315 - Causes skin irritation H320 - Causes eye irritation H335 - May cause respiratory irritation
Precautionary statements (GHS-US)	 P261 - Avoid breathing dust/fume/gas/mist/vapors/spray P264 - Wash thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+P352 - If on skin: Wash with plenty of water/ P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P312 - Call a poison center/doctor/ if you feel unwell P321 - Specific treatment (see on this label) P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention P362 - Take off contaminated clothing and wash before reuse P403+P233 - Store in a well-ventilated place. Keep container tightly closed P405 - Store locked up P501 - Dispose of contents/container to
2.3. Other hazards	
No additional information available	
2.4. Unknown acute toxicity (GHS-US)	

Not applicable

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations SECTION 3: Composition/information on ingredients Substance 3.1. Not applicable 3.2. **Mixture Classification (GHS-US)** Name Product identifier % Calcium Phosphate 84 - 88 Skin Irrit. 2, H315 (CAS No) 7758-23-8 Eve Irrit. 2B, H320 STOT SE 3, H335 Dicalcium Phosphate (CAS No) 7757-93-9 12 - 16 Eye Irrit. 2B, H320 Full text of H-phrases: see section 16 **SECTION 4: First aid measures Description of first aid measures** 4.1. : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical First-aid measures general advice (show the label where possible). Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a First-aid measures after inhalation POISON CENTER or doctor/physician if you feel unwell. First-aid measures after skin contact Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see ... on this label). IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present First-aid measures after eye contact and easy to do. Continue rinsing. First-aid measures after ingestion Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. 4.2. Most important symptoms and effects, both acute and delayed Symptoms/injuries after inhalation : May cause respiratory irritation. Symptoms/injuries after skin contact Causes skin irritation. Symptoms/injuries after eye contact : Causes eye irritation. 4.3. Indication of any immediate medical attention and special treatment needed No additional information available **SECTION 5: Firefighting measures Extinguishing media** 5.1. Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand. Unsuitable extinguishing media : Do not use a heavy water stream. Special hazards arising from the substance or mixture 5.2. Reactivity : Stable. 5.3. Advice for firefighters **Firefighting instructions** : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. **SECTION 6: Accidental release measures** 6.1. Personal precautions, protective equipment and emergency procedures 6.1.1. For non-emergency personnel 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. Notify authorities if liquid enters sewers or public waters 6.3. Methods and material for containment and cleaning up Methods for cleaning up : On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials. **Reference to other sections**

See Heading 8. Exposure controls and personal protection.

6.4.

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

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well- ventilated area.
Hygiene measures	: Wash thoroughly after handling.
7.2. Conditions for safe storage, includi	ng any incompatibilities
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Keep container tightly closed.
Incompatible products	: Strong bases. Strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight.
7.3. Specific end use(s)	

No additional information available

SECTION 8: Exposure controls/personal protection			
8.1. Control parameters	.1. Control parameters		
Triple Superphosphate 0-45-	0		
ACGIH	Not applicable		
OSHA	Not applicable		
Calcium Phosphate (7758-23	Calcium Phosphate (7758-23-8)		
ACGIH	Not applicable		
OSHA	Not applicable		
Dicalcium Phosphate (7757-93-9)			
ACGIH	Not applicable		
OSHA	Not applicable		

8.2. Exposure controls	
Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear protective gloves.
Eye protection	: Chemical goggles or safety glasses.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: Wear appropriate mask.
Other information	: Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties	
9.1. Information on basic physical and	d chemical properties
Physical state	: Solid
Appearance	: Granules.
Color	: Off-white
Odor	: characteristic
Odor threshold	: No data available
рН	: No data available
pH solution	: 1 g to 10 g H2O: 2.3-3
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non-flammable
Explosion limits	: No data available

Safety Data Sheet

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

Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Solubility	 Soluble. Water: Solubility in water of component(s) of the mixture : 1.8 g/100ml 0.010 g/100ml
Log Pow	: No data available
Log Kow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

9.2. Other information

No additional information available

SECT	ION 10: Stability and reactivity	
10.1.	Reactivity	
Stable.		
10.2.	Chemical stability	
Stable ι	under normal conditions.	
10.3.	Possibility of hazardous reactions	
Not esta	ablished.	
10.4.	Conditions to avoid	
Direct sunlight. Extremely high or low temperatures.		
10.5.	Incompatible materials	
Oxidize	rs. May be corrosive to metals. Strong acids. Strong bases.	
10.6.	Hazardous decomposition products	
	N SOX BOX fume Carbon menovide Carbon diovide	

NH3, CN, SOx, POx. fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified	
Triple Superphosphate 0-45-0		
LD50 oral rat	17500 mg/kg	
LD50 dermal rabbit	> 2000 mg/kg	
ATE US (oral)	17500.000 mg/kg body weight	
Calcium Phosphate (7758-23-8)		
LD50 oral rat	17500 mg/kg (Rat; Literature)	
LD50 dermal rabbit	> 2000 mg/kg (Rabbit; Literature)	
ATE US (oral)	17500.000 mg/kg body weight	
Dicalcium Phosphate (7757-93-9)		
LD50 oral rat	10000 mg/kg (Rat)	
LD50 dermal rat	7940 mg/kg (Rat)	
ATE US (oral)	10000.000 mg/kg body weight	
ATE US (dermal)	7940.000 mg/kg body weight	
Skin corrosion/irritation	: Causes skin irritation.	
Serious eye damage/irritation	: Causes eye irritation.	
Respiratory or skin sensitization	: Not classified	
Germ cell mutagenicity	: Not classified	
08/07/2015	EN (English US) 4/1	

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

Carcinogenicity	: Not classified	
Reproductive toxicity Specific target organ toxicity (single exposure)	Not classifiedMay cause respiratory irritation.	
Specific target organ toxicity (repeated exposure)	: Not classified	
Aspiration hazard	: Not classified	
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.	
Symptoms/injuries after inhalation	: May cause respiratory irritation.	
Symptoms/injuries after skin contact	: Causes skin irritation.	
Symptoms/injuries after eye contact	: Causes eye irritation.	
-,		

SECTION 12: Ecological information		
12.1.	Toxicity	

No additional information available

12.2. Persistence and degradability		
Triple Superphosphate 0-45-0		
Persistence and degradability	Not established.	
Calcium Phosphate (7758-23-8)		
Persistence and degradability	Biodegradability: not applicable. Not established.	
Biochemical oxygen demand (BOD)	Not applicable	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
BOD (% of ThOD)	Not applicable	
Dicalcium Phosphate (7757-93-9)		
Persistence and degradability	Biodegradability: not applicable. Not established.	
Biochemical oxygen demand (BOD)	Not applicable	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
BOD (% of ThOD)	Not applicable	
12.3. Bioaccumulative potential		
Triple Superphosphate 0-45-0		

Inple Superphosphate 0-45-0		
Bioaccumulative potential	Not established.	
Calcium Phosphate (7758-23-8)		
Bioaccumulative potential	No bioaccumulation data available. Not established.	
Dicalcium Phosphate (7757-93-9)		
Bioaccumulative potential	Not bioaccumulative. Not established.	

12.4. **Mobility in soil**

No additional information available

12.5.	Other adverse effects			
Effect on the global warming		: No known ecological damage caused by this product.		
Other information		: Avoid release to the environment.		
SECTION 13: Disposal considerations		5		
13.1.	Waste treatment methods			
Waste disposal recommendations		: Dispose in a safe manner in accordance with local/national regulations.		

08/07/2015

Safety Data Sheet

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

Ecology - waste materials

: Avoid release to the environment.

6,	
SECTION 14: Transport information	
Department of Transportation (DOT)	
In accordance with DOT	
Not regulated for transport	
Additional information	
Other information	: No supplementary information available.
ADR	
No additional information available	
Transport by sea	

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

Triple Superphosphate 0-45-0

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

CANADA No additional information available

EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP] No additional information available

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD] Not classified

National regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

SECTION 16: Other information

Other information

: None.

Full text of H-phrases:

Eye Irrit. 2B	Serious eye damage/eye irritation Category 2B
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H315	Causes skin irritation
H320	Causes eye irritation
H335	May cause respiratory irritation

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

SDS US (GHS HazCom 2012)

Disclaimer: This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE CONCERNING THE INFORMATION HERE. PROVIDED. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that m occur from the use of this information nor do we offer warranty against patent infringement.

SAFETY DATA SHEET

1. Product and Company Identification

	Wolf Trax Zinc DDP	
Other means of identification	Not available	
Recommended use	Plant Food	
Recommended restrictions	None known.	
/anufacturer/Importer/Supplier/	Distributor information	
Manufacturer		
	Compass Minerals USA Inc. 9900 West 109th Street, Suite 100 Overland Park, KS 66210 United States 913-344-9200	
Manufacturer	Compass Minerals Manitoba Inc. 800- One Research Rd. Winnipeg MB R3T 6E3 Canada 204-237-9653	
	CHEMTREC 1-800-424-9300 CANUTEC 1-613-996-6666 Website: http://www.compassminerals.c E-mail: techservicesrequests@compass	
	2. Hazards Identific	cation
Physical hazards	Not classified.	
lealth hazards	Acute toxicity, oral	Category 4
	Serious eye damage/eye irritation	Category 1
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	
OSHA defined hazards Label elements	Not classified.	
	Not classified.	
	Not classified.	
_abel elements		
Label elements Signal word	Danger Harmful if swallowed.	
Label elements Signal word Hazard statement	Danger Harmful if swallowed.	his product.
Label elements Signal word Hazard statement Precautionary statement	Danger Harmful if swallowed. Causes serious eye damage. Do not eat, drink or smoke when using t Wash thoroughly after handling. Wear eye/face protection. If swallowed: Call a poison center/docto	r if you feel unwell. Rinse mouth. r several minutes. Remove contact lenses, if present and
Label elements Signal word Hazard statement Precautionary statement Prevention	Danger Harmful if swallowed. Causes serious eye damage. Do not eat, drink or smoke when using t Wash thoroughly after handling. Wear eye/face protection. If swallowed: Call a poison center/docto If in eyes: Rinse cautiously with water for	r if you feel unwell. Rinse mouth. or several minutes. Remove contact lenses, if present and ly call a poison center/doctor.
Label elements Signal word Hazard statement Precautionary statement Prevention Response	Danger Harmful if swallowed. Causes serious eye damage. Do not eat, drink or smoke when using t Wash thoroughly after handling. Wear eye/face protection. If swallowed: Call a poison center/docto If in eyes: Rinse cautiously with water for easy to do. Continue rinsing. Immediate Store away from incompatible materials	r if you feel unwell. Rinse mouth. or several minutes. Remove contact lenses, if present and ly call a poison center/doctor.
Label elements Signal word Hazard statement Precautionary statement Prevention Response Storage	Danger Harmful if swallowed. Causes serious eye damage. Do not eat, drink or smoke when using t Wash thoroughly after handling. Wear eye/face protection. If swallowed: Call a poison center/docto If in eyes: Rinse cautiously with water for easy to do. Continue rinsing. Immediate Store away from incompatible materials	r if you feel unwell. Rinse mouth. r several minutes. Remove contact lenses, if present and ly call a poison center/doctor.

3. Composition/Information on Ingredients

Mixtures				
Chemical name	Common name and synonyms	CAS number	%	
Zinc oxide		1314-13-2	60 - 100	

Chemical name	Common name and synonyms	CAS number	%
Zinc sulfate, monohydrate		7446-19-7	10 - 30
Ferric oxide		1309-37-1	1 - 5
Sulfonated aromatic polymer, sodium salt		Trade Secret	1 - 5
Composition comments	US GHS: The exact percentage (concentration) secret in accordance with paragraph (i) of §1910		withheld as a trade
	4. First Aid Measures		
Inhalation	If symptoms develop move victim to fresh air. If	symptoms persist, obtain	medical attention.
Skin contact	Flush with cool water. Wash with soap and wat	ter. Obtain medical attent	ion if irritation persists.
Eye contact	If in eyes: Rinse cautiously with water for severa easy to do. Continue rinsing. Immediately call a	poison center/doctor.	ct lenses, if present and
Ingestion	If swallowed: Call a poison center/doctor if you f		
Most important symptoms/effects, acute and delayed	Symptoms may include stinging, tearing, rednes damage including blindness could result.	s, swelling, and blurred vi	sion. Permanent eye
Indication of immediate medical attention and special treatment needed	Treat patient symptomatically.		
General information	Ensure that medical personnel are aware of the protect themselves. Show this safety data sheet eyes and skin. Wear suitable protective clothing	to the doctor in attendand	ce. Avoid contact with
	5. Fire Fighting Measures		
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon	dioxide.	
Unsuitable extinguishing media	Not available.		
Specific hazards arising from the chemical	During fire, gases hazardous to health may be for	ormed.	
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full prote	ective clothing must be we	orn in case of fire.
Fire-fighting equipment/instructions	In the event of fire, cool tanks with water spray.		
Specific methods	Use standard firefighting procedures and consid	er the hazards of other in	volved materials.
General fire hazards	No unusual fire or explosion hazards noted.		
	6. Accidental Release Measu	res	
Personal precautions, protective equipment and emergency procedures	Keep people away from and upwind of spill/leak. containers or spilled material unless wearing app ventilation. Local authorities should be advised in personal protection, see section 8 of the SDS.	propriate protective clothin	ng. Ensure adequate
Methods and materials for containment and cleaning up	Before attempting clean up, refer to hazard data material for proper disposal without raising dust. entering sewers or waterways. Contact emerge disposal, see section 13 of the SDS.	Rinse area with water.	Prevent large spills from
Environmental precautions	Do not discharge into lakes, streams, ponds or p	oublic waters.	
	7. Handling and Storage		
Precautions for safe handling	Avoid contact with eyes, skin and clothing.		
	Provide adequate ventilation. Wear appropriate personal protective equipment Avoid prolonged exposure. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling.	t.	
Conditions for safe storage, including any incompatibilities	Store in original tightly closed container. Store away from incompatible materials (see Se Keep out of the reach of children.	ction 10 of the SDS).	

8. Exposure Controls/Personal Protection

Components	Туре	Value	Form		
Ferric oxide (CAS 1309-37- 1)	PEL	10 mg/m3	Fume.		
, Zinc oxide (CAS 1314-13-2)	PEL	5 mg/m3	Respirable fraction.		
· · · · · · · · · · · · · · · · · · ·		5 mg/m3	Fume.		
		15 mg/m3	Total dust.		
US. ACGIH Threshold Limit	Values				
Components	Туре	Value	Form		
Ferric oxide (CAS 1309-37- 1)	TWA	5 mg/m3	Respirable fraction.		
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Respirable fraction.		
	TWA	2 mg/m3	Respirable fraction.		
US. NIOSH: Pocket Guide to	Chomical Hazards				
Components	Type	Value	Form		
Ferric oxide (CAS 1309-37- 1)	TWA	5 mg/m3	Dust and fume.		
, Zinc oxide (CAS 1314-13-2)	Ceiling	15 mg/m3	Dust.		
. , ,	STEL	10 mg/m3	Fume.		
	TWA	5 mg/m3	Dust.		
		5 mg/m3	Fume.		
ological limit values	No biological exposure limits noted f	or the ingredient(s)			
xposure guidelines	Chemicals listed in section 3 that are not listed here do not have established limit values for ACGIH or OSHA PEL.				
opropriate engineering ontrols	Ensure adequate ventilation.				
	such as personal protective equipm	ent			
Eye/face protection	Safety glasses or goggles.				
Skin protection					
Hand protection	Wear suitable gloves.				
Other	As required by employer code.				
Respiratory protection	Wear dust mask.				
Thermal hazards	Not applicable.				
International mazardsHot upprices.eneral hygieneHandle in accordance with good industrial hygiene and safety practice. Wash hands after and before eating. When using, do not eat, drink or smoke.			ice. Wash hands after handli		
	9. Physical and Chem	ical Properties			
opearance	Powder				
nysical state	Solid.				
orm	Solid.				
blor	Red				
lor	Odorless				
dor threshold	Not applicable				
4	Not applicable				
elting point/freezing point	Not applicable				
itial boiling point and boiling nge	Not applicable				
our point	Not applicable				
becific gravity	Not applicable				
Partition coefficient Not applicable (n-octanol/water)					
ash point	Not available.				
vaporation rate	Not applicable				
	Not applicable				

Not applicable.

Flammability (solid, gas)

Upper/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	Not applicable		
Vapor density	Not applicable		
Relative density	Not available.		
Solubility(ies)	Not available.		
Auto-ignition temperature	Not available.		
Decomposition temperature	Not available.		
Viscosity	Not applicable		
Other information			
Flammability	Not applicable		
10. Stability and Reactivity			
Reactivity	This product may react with strong oxidizing agents.		
Possibility of hazardous reactions	Hazardous polymerization does not occur.		
Chemical stability	Material is stable under normal conditions.		
Conditions to avoid	Conditions to avoid Do not mix with other chemicals.		
Incompatible materials	Oxidizers.		

11. Toxicological Information

May include and are not limited to: Oxides of carbon.

Hazardous decomposition products

Information on likely routes of	exposure		
Ingestion	Harmful if swallowed.		
Inhalation	Prolonged inhalation may be harmful.		
Skin contact	No adverse effects due to skin contact are expected.		
Eye contact	Causes serious eye damage.		
Symptoms related to the physical, chemical and toxicological characteristics	Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.		
Information on toxicological ef	fects		
Acute toxicity	Harmful if swallowed.		
Components Ferric oxide (CAS 1309-37-1)	Species	Test Results	
Acute			
Inhalation			
LC50	Not available		
Oral			
LD50	Rat	> 10000 mg/kg	
Zinc oxide (CAS 1314-13-2)			
Acute			
Inhalation			
LC50	Mouse	> 5.7 mg/L, 4 Hours	
		2500 mg/m3	
Oral			
LD50	Mouse	7950 mg/kg	
	Rat	> 5 g/kg	
		5000 mg/kg	

Test Results Components Species Zinc sulfate, monohydrate (CAS 7446-19-7) Acute Dermal LD50 Rat > 2000 mg/kg Oral LD50 Mouse 57 mg/kg Rat 623 mg/kg Skin corrosion/irritation Prolonged skin contact may cause temporary irritation. Not available. **Exposure minutes** Not available. Erythema value Oedema value Not available. Serious eye damage/eye Causes serious eye damage. irritation **Corneal opacity value** Not available. Iris lesion value Not available. **Conjunctival reddening** Not available. value Not available. Conjunctival oedema value Not available. **Recover days** Respiratory or skin sensitization Not available. **Respiratory sensitization** Skin sensitization This product is not expected to cause skin sensitization. No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity mutagenic or genotoxic. This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Carcinogenicity IARC Monographs. Overall Evaluation of Carcinogenicity Ferric oxide (CAS 1309-37-1) 3 Not classifiable as to carcinogenicity to humans. US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed. Reproductive toxicity This product is not expected to cause reproductive or developmental effects. Specific target organ toxicity -Not classified. single exposure Specific target organ toxicity -Not classified. repeated exposure Aspiration hazard Not classified. Chronic effects Prolonged inhalation may be harmful. Further information Not available. 12. Ecological Information Ecotoxicity See below **Test Results** Components **Species** Zinc oxide (CAS 1314-13-2) Aquatic LC50 Fathead minnow (Pimephales promelas) 2246 mg/L, 96 hours Fish Zinc sulfate, monohydrate (CAS 7446-19-7) Aquatic Crustacea **EC50** Rotifer (Philodina acuticornis) 0.3 mg/L, 48 hours Fish LC50 Rainbow trout, donaldson trout 0.162 mg/L, 96 hours (Oncorhynchus mykiss) No data is available on the degradability of this product. Persistence and degradability **Bioaccumulative potential** No data available. Mobility in soil No data available. Mobility in general Not 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	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	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	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.		

14. Transport Information

U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

	15. Regul	atory Information	n		
US federal regulations	This product is a "Hazardo Standard, 29 CFR 1910.1		ned by the OSHA Hazard Communication		
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)					
Not regulated.					
CERCLA Hazardous Subst	tance List (40 CFR 302.4)				
Zinc oxide (CAS 1314-1	,	Listed.			
US. OSHA Specifically Reg Not listed.	gulated Substances (29 CFR	1910.1001-1050)			
Superfund Amendments and R	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 hazardous substance	No				
SARA 311/312 Hazardous chemical	No				
SARA 313 (TRI reporting) Chemical name		CAS number	% by wt.		
Zinc oxide Zinc sulfate, monohydra	ate	1314-13-2 7446-19-7	60 - 100 10 - 30		
Other federal regulations					
•	on 112 Hazardous Air Polluta	unts (HAPs) List			
Not regulated.					
	on 112(r) Accidental Release	Prevention (40 CFR	68.130)		
Not regulated.					
Safe Drinking Water Act (SDWA)	Not regulated.				
Food and Drug Administration (FDA)	Not regulated.				
US state regulations	WARNING: This product of	ontains a chemical kn	own to the State of California to cause cancer.		
US - California Hazard	ous Substances (Director's)	: Listed substance			
Ferric oxide (CAS Zinc oxide (CAS 13 Zinc sulfate, monol	1309-37-1)	Listed. Listed. Listed.	(CRT): Listed substance		
Naphthalene (CAS US - Illinois Chemical	91-20-3) Safety Act: Listed substanc	Listed. e			
Zinc oxide (CAS 13 US - Louisiana Spill R é	314-13-2) eporting: Listed substance	Listed.			
Zinc oxide (CAS 13 US - Michigan Critical	Materials Register: Paramet	Listed. er number			
Zinc oxide (CAS 13	-	07440-66-6 Liste 07440-66-6 Liste			

US - Minnesota Haz Subs: Listed substance	
Ferric oxide (CAS 1309-37-1) Zinc oxide (CAS 1314-13-2)	Listed. Listed.
US - New Jersey RTK - Substances: Listed substar	
Ferric oxide (CAS 1309-37-1)	Listed.
Zinc oxide (CAS 1314-13-2) US - New York Release Reporting: Hazardous Subs	Listed. stances: Listed substance
Zinc sulfate, monohydrate (CAS 7446-19-7)	Listed.
US - Texas Effects Screening Levels: Listed substa	ance
Ferric oxide (CAS 1309-37-1)	Listed.
Zinc oxide (CAS 1314-13-2)	Listed.
US. Massachusetts RTK - Substance List	
Ferric oxide (CAS 1309-37-1)	Listed.
Zinc oxide (CAS 1314-13-2)	Listed.
Zinc sulfate, monohydrate (CAS 7446-19-7)	Listed.
US. Pennsylvania RTK - Hazardous Substances	
Ferric oxide (CAS 1309-37-1)	Listed.
Zinc oxide (CAS 1314-13-2)	Listed.
Zinc sulfate, monohydrate (CAS 7446-19-7)	Listed.
US. Rhode Island RTK	
Zinc oxide (CAS 1314-13-2)	Listed.

Country(s) or region

Inventory name Toxic Substances Control Act (TSCA) Inventory United States & Puerto Rico

On inventory (yes/no)* Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Disclaimer

16. Other Information



reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

14-August-2015 Issue date **Further information** For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document. Other information This Safety Data Sheet was prepared to comply with the current OSHA Hazard Communication Standard (HCS) adoption of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS). Dell Tech Laboratories, Ltd. Phone: (519) 858-5021 Prepared by