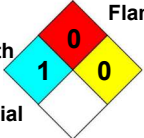





# Material Safety Data Sheet

NFPA	HMIS	WHMIS	TDG	DOT								
	<table border="1"> <tr><td>Health</td><td>1</td></tr> <tr><td>Flammability</td><td>0</td></tr> <tr><td>Physical hazards</td><td>0</td></tr> <tr><td>Suggested PPE</td><td>E</td></tr> </table>	Health	1	Flammability	0	Physical hazards	0	Suggested PPE	E			
Health	1											
Flammability	0											
Physical hazards	0											
Suggested PPE	E											

## 1 . Product and Company Identification

<b>Product name</b> 14265 Ultra Yield EZ 20 Essential Zinc	
<b>Synonym</b> Micronutrient mix	<b>MSDS prepared by the Environment, Health &amp; Safety Department on:</b> 6/26/2009.
<b>Material uses</b> Agricultural industry: Soil additive, micronutrient mix	<b>Version</b> 2
<b>MSDS Number</b> 14265	<b><u>In Case of Emergency</u></b>  <b>Transportation: 1-800-792-8311</b> <b>Medical: 1-888-670-8123</b>
<b>Manufacturer</b> Agrium Advanced Technologies (U.S.), Inc. 2405 West Vassar Road (M-15) Reese, MI 48757	For more information on Agrium AT or our products, please go to: <a href="http://www.agriumat.com">http://www.agriumat.com</a> or contact us at Toll-Free:800-461-6471

## 2 . Hazards Identification

<b>Physical state</b>	Solid.
<b>OSHA/HCS status</b>	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
<b><u>Potential acute health effects</u></b>	
<b>Inhalation</b>	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
<b>Ingestion</b>	May cause irritation to the digestive tract if swallowed.
<b>Skin</b>	May cause skin irritation.
<b>Eyes</b>	May irritate the eyes upon contact.
<b><u>Potential chronic health effects</u></b>	
<b>Chronic effects</b>	Contains material that may cause target organ damage, based on animal data.
<b>Carcinogenicity</b>	No known significant effects or critical hazards.
<b>Mutagenicity</b>	No known significant effects or critical hazards.
<b>Teratogenicity</b>	No known significant effects or critical hazards.
<b>Developmental effects</b>	No known significant effects or critical hazards.
<b>Fertility effects</b>	No known significant effects or critical hazards.
<b>Target organs</b>	Contains material which may cause damage to the following organs: lungs, upper respiratory tract, skin, eyes, nose/sinuses, throat.

## 2 . Hazards Identification

### Over-exposure signs/symptoms

**Inhalation** No specific data.

**Ingestion** No specific data.

**Skin** No specific data.

**Eyes** No specific data.

**Medical conditions aggravated by over-exposure** Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

See toxicological information (section 11)

## 3 . Composition / Information on Ingredients

### United States

<u>Name</u>	<u>CAS number</u>	<u>%</u>
zinc sulphate (anhydrous)	7733-02-0	15 - 40
diiron trioxide	1309-37-1	5 - 10
zinc oxide	1314-13-2	5 - 10
magnesium oxide	1309-48-4	1 - 5
urea	57-13-6	0.99 - 4.98

### Canada

<u>Name</u>	<u>CAS number</u>	<u>%</u>
zinc sulphate (anhydrous)	7733-02-0	15 - 40
diiron trioxide	1309-37-1	5 - 10
zinc oxide	1314-13-2	5 - 10
magnesium oxide	1309-48-4	1 - 5
urea	57-13-6	0.99 - 4.98

### Mexico

<u>Name</u>	<u>CAS number</u>	<u>UN number</u>	<u>%</u>	<u>IDLH</u>	<u>Classification</u>				
					<u>H</u>	<u>E</u>	<u>R</u>	<u>Special</u>	
diiron trioxide	1309-37-1	Not available.	5 - 10	2500 mg/m <sup>3</sup>	0	0	0		
zinc oxide	1314-13-2	Not available.	5 - 10	500 mg/m <sup>3</sup>	0	0	0		
magnesium oxide	1309-48-4	Not available.	1 - 5	750 mg/m <sup>3</sup>	0	0	0		

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

## 4 . First Aid Measures

**Eye contact** Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

**Skin contact** Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if irritation develops. Wash hands after handling.

## 4 . First Aid Measures

<b>Inhalation</b>	Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
<b>Ingestion</b>	Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.
<b>Protection of first-aiders</b>	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
<b>Notes to physician</b>	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

## 5 . Fire-fighting Measures

<b>Flammability of the product</b>	No specific fire or explosion hazard.
<b><u>Extinguishing media</u></b>	
<b>Suitable</b>	Use an extinguishing agent suitable for the surrounding fire.
<b>Not suitable</b>	None known.
<b>Special exposure hazards</b>	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
<b>Hazardous thermal decomposition products</b>	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides
<b>Special protective equipment for fire-fighters</b>	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6 . Accidental Release Measures

<b>Personal precautions</b>	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).
<b>Environmental precautions</b>	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
<b><u>Methods for cleaning up</u></b>	
<b>Small spill</b>	Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

## 6 . Accidental Release Measures

**Large spill** Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

## 7 . Handling and Storage

**Handling** Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not get in eyes or on skin or clothing. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Storage** Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## 8 . Exposure Controls / Personal Protection

### United States

Ingredient	Exposure limits
diiron trioxide	<p><b>ACGIH TLV (United States, 1/2008).</b> TWA: 5 mg/m<sup>3</sup> 8 hour(s). Form: Respirable fraction</p> <p><b>NIOSH REL (United States, 6/2008).</b> TWA: 5 mg/m<sup>3</sup>, (as Fe) 10 hour(s). Form: Dust and fumes</p> <p><b>OSHA PEL 1989 (United States, 3/1989).</b> TWA: 5 mg/m<sup>3</sup> 8 hour(s). Form: Respirable fraction TWA: 10 mg/m<sup>3</sup> 8 hour(s). Form: Total dust STEL: 10 ppm, (as Fe) 15 minute(s). Form: Total particulates</p> <p><b>OSHA PEL (United States, 11/2006).</b> TWA: 10 mg/m<sup>3</sup> 8 hour(s).</p>
zinc oxide	<p><b>NIOSH REL (United States, 6/2008).</b> CEIL: 15 mg/m<sup>3</sup> Form: Dust TWA: 5 mg/m<sup>3</sup> 10 hour(s). Form: Dust and fumes STEL: 10 mg/m<sup>3</sup> 15 minute(s). Form: Fume</p> <p><b>OSHA PEL 1989 (United States, 3/1989).</b> TWA: 5 mg/m<sup>3</sup> 8 hour(s). Form: Fume STEL: 10 mg/m<sup>3</sup> 15 minute(s). Form: Fume TWA: 10 mg/m<sup>3</sup> 8 hour(s). Form: Total dust TWA: 5 mg/m<sup>3</sup> 8 hour(s). Form: Respirable fraction</p> <p><b>OSHA PEL (United States, 11/2006).</b> TWA: 5 mg/m<sup>3</sup> 8 hour(s). Form: Fume TWA: 15 mg/m<sup>3</sup> 8 hour(s). Form: Total dust TWA: 5 mg/m<sup>3</sup> 8 hour(s). Form: Respirable fraction</p> <p><b>ACGIH TLV (United States, 1/2008).</b> STEL: 10 mg/m<sup>3</sup> 15 minute(s). TWA: 2 mg/m<sup>3</sup> 8 hour(s).</p>
magnesium oxide	<p><b>ACGIH TLV (United States, 1/2008).</b> TWA: 10 mg/m<sup>3</sup> 8 hour(s). Form: Fume</p> <p><b>OSHA PEL (United States, 11/2006).</b></p>

## 8 . Exposure Controls / Personal Protection

urea	TWA: 15 mg/m <sup>3</sup> 8 hour(s). Form: Total particulates <b>OSHA PEL 1989 (United States, 3/1989).</b> TWA: 10 mg/m <sup>3</sup> 8 hour(s). Form: Total particulates <b>AIHA WEEL (United States, 1/2008).</b> TWA: 10 mg/m <sup>3</sup> 8 hour(s).
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### Canada

Occupational exposure limits		TWA (8 hours)			STEL (15 mins)			Ceiling			Notations	
Ingredient	List name	ppm	mg/m <sup>3</sup>	Other	ppm	mg/m <sup>3</sup>	Other	ppm	mg/m <sup>3</sup>	Other		
diiron trioxide	US ACGIH 1/2008	-	-	5	-	-	-	-	-	-	[a]	
	AB 6/2008	-	-	5	-	-	-	-	-	-	[b]	
diiron trioxide	BC 6/2008	-	-	10	-	-	-	-	-	-	[c]	
		-	-	5	-	10	-	-	-	-	[d]	
		-	-	3	-	-	-	-	-	-	-	[e]
	ON 6/2008	-	-	10	-	-	-	-	-	-	-	[f]
		-	-	5	-	-	-	-	-	-	-	[g]
		-	-	10	-	-	-	-	-	-	-	[h]
diiron trioxide, as Fe	QC 6/2008	-	-	5	-	-	-	-	-	-	[i]	
	US ACGIH 1/2008	-	-	2	-	10	-	-	-	-	[j]	
zinc oxide	AB 6/2008	-	-	10	-	-	-	-	-	-	[c]	
		-	-	5	-	10	-	-	-	-	[d]	
magnesium oxide	BC 6/2008	-	-	2	-	10	-	-	-	-	[j]	
	ON 6/2008	-	-	2	-	10	-	-	-	-	[g]	
	QC 6/2008	-	-	5	-	10	-	-	-	-	[k]	
	US ACGIH 1/2008	-	-	10	-	-	-	-	-	-	[d]	
	AB 6/2008	-	-	10	-	-	-	-	-	-	[d]	
	BC 6/2008	-	-	10	-	-	-	-	-	-	[l]	
magnesium oxide, as Mg	ON 6/2008	-	-	3	-	10	-	-	-	-	[m]	
	QC 6/2008	-	-	10	-	-	-	-	-	-	[n]	
	US AIHA 1/2008	-	-	10	-	-	-	-	-	-	[k]	

**Form:** [a]Respirable fraction [b]Dust and fumes [c]Dust [d]Fume [e]Respirable dust [f]Total dust [g]The notation “respirable” following the name of an agent in this Schedule means that size fraction of the airborne particulate deposited in the gas-exchange region of the respiratory tract and collected during air sampling with a particle size-selective device that, (a) meets the American Conference of Governmental Industrial Hygienists (ACGIH) particle size-selective criteria; and (b) has the cut point of 4 microns at 50 per cent collective efficiency. [h]total dust [i]dust and fume [j]Respirable [k]fume [l]Inhalable fume [m]Respirable dust and fume [n]The notation “inhalable” following the name of an agent in this Schedule means that size fraction of the airborne particulate deposited anywhere in the respiratory tract and collected during air sampling with a particle size-selective device that, (a) meets the American Conference of Governmental Industrial Hygienists (ACGIH) particle size-selective criteria; and (b) has the cut point of 100 microns at 50 per cent collective efficiency.

### Mexico

Ingredient	Exposure limits
diiron trioxide	<b>NOM-010-STPS (Mexico, 9/2000).</b> LMPE-CT: 10 mg/m <sup>3</sup> , (as Fe) 15 minute(s). LMPE-PPT: 5 mg/m <sup>3</sup> , (as Fe) 8 hour(s).
zinc oxide	<b>NOM-010-STPS (Mexico, 9/2000).</b> LMPE-PPT: 10 mg/m <sup>3</sup> 8 hour(s). Form: powder LMPE-CT: 10 mg/m <sup>3</sup> 15 minute(s). Form: smoke LMPE-PPT: 5 mg/m <sup>3</sup> 8 hour(s). Form: smoke
magnesium oxide	<b>NOM-010-STPS (Mexico, 9/2000).</b> LMPE-PPT: 10 mg/m <sup>3</sup> , (as Mg) 8 hour(s). Form: smoke

**Consult local authorities for acceptable exposure limits.**

### Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

## 8 . Exposure Controls / Personal Protection

<b>Engineering measures</b>	If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
<b>Hygiene measures</b>	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
<b><u>Personal protection</u></b>	
<b>Respiratory</b>	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
<b>Hands</b>	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
<b>Eyes</b>	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.
<b>Skin</b>	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
<b><u>Environmental exposure controls</u></b>	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## 9 . Physical and Chemical Properties

<b>Physical state</b>	Solid.
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## 10 . Stability and Reactivity

<b>Chemical stability</b>	The product is stable.
<b>Possibility of hazardous reactions</b>	Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Hazardous polymerization</b>	Under normal conditions of storage and use, hazardous polymerization will not occur.
<b>Conditions to avoid</b>	No specific data.
<b>Materials to avoid</b>	No specific data.
<b>Hazardous decomposition products</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# 11 . Toxicological Information

## United States

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
urea	LD50 Intratracheal	Rat	567 mg/kg	-
	LD50 Oral	Rat	8471 mg/kg	-

### Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
diiron trioxide	A4	3	-	-	-	-
zinc oxide	A4	-	-	-	-	-
magnesium oxide	A4	-	-	-	-	-

## Canada

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
urea	LD50 Intratracheal	Rat	567 mg/kg	-
	LD50 Oral	Rat	8471 mg/kg	-

### Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
diiron trioxide	A4	3	-	-	-	-
zinc oxide	A4	-	-	-	-	-
magnesium oxide	A4	-	-	-	-	-

## Mexico

### Acute toxicity

### Classification

## 11 . Toxicological Information

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
diiron trioxide	A4	3	-	-	-	-
zinc oxide	A4	-	-	-	-	-
magnesium oxide	A4	-	-	-	-	-

## 12 . Ecological Information

**Environmental effects** No known significant effects or critical hazards.

### United States

#### Aquatic ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure
zinc sulphate (anhydrous)	-	Acute LC50 240 to 500 ug/L Fresh water	Daphnia - Water flea - Daphnia magna - <24 hours	48 hours
	-	Acute LC50 40 to 50 ug/L Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss - Fingerling	96 hours
zinc oxide	-	Acute LC50 2246000 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas - Neonate - <24 hours	96 hours
	-	Acute LC50 24600 ug/L Fresh water	Daphnia - Water flea - Daphnia magna - Neonate - <24 hours	48 hours
urea	-	Acute LC50 66800 to 70500 ug/L Fresh water	Fish - Rohu - Labeo rohita - Egg	96 hours
	-	Acute LC50 22500 ug/L	Fish - Mozambique tilapia - Tilapia mossambica	96 hours

### Canada

#### Aquatic ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure
zinc sulphate (anhydrous)	-	Acute LC50 240 to 500 ug/L Fresh water	Daphnia - Water flea - Daphnia magna - <24 hours	48 hours
	-	Acute LC50 40 to 50 ug/L Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus	96 hours

## 12 . Ecological Information

zinc oxide	-	Acute LC50 2246000 ug/L Fresh water	mykiss - Fingerling Fish - Fathead minnow - Pimephales promelas - Neonate - <24 hours	96 hours
	-	Acute LC50 24600 ug/L Fresh water	Daphnia - Water flea - Daphnia magna - Neonate - <24 hours	48 hours
urea	-	Acute LC50 66800 to 70500 ug/L Fresh water	Fish - Rohu - Labeo rohita - Egg	96 hours
	-	Acute LC50 22500 ug/L	Fish - Mozambique tilapia - Tilapia mossambica	96 hours

### Mexico

#### Aquatic ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure
zinc oxide	-	Acute LC50 2246000 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas - Neonate - <24 hours	96 hours
	-	Acute LC50 24600 ug/L Fresh water	Daphnia - Water flea - Daphnia magna - Neonate - <24 hours	48 hours

## 13 . Disposal Considerations


### **Waste disposal**

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**Disposal should be in accordance with applicable regional, national and local laws and regulations.**

**Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.**

## 14 . Transport Information

Regulatory information	UN number	Shipping name	Classes	PG*	Label	Additional information
<b>DOT Classification</b>	Not available.	Not available.	Not available.	-		-
<b>TDG Classification</b>	Not available.	Not available.	Not available.	-		-
<b>Mexico Classification</b>	Not available.	Not available.	Not available.	-		-

PG\* : Packing group

## 15 . Regulatory Information

### United States

**HCS Classification** Target organ effects

**U.S. Federal regulations** TSCA 4(a) final test rules: biuret; Urea, reaction products with formaldehyde  
**United States inventory (TSCA 8b):** All components are listed or exempted.  
 TSCA 12(b) one-time export: biuret; Urea, reaction products with formaldehyde

**SARA 302/304/311/312 extremely hazardous substances:** No products were found.

**SARA 302/304 emergency planning and notification:** No products were found.

**SARA 302/304/311/312 hazardous chemicals:** diiron trioxide; iron(ii) sulfate heptahydrate; zinc sulphate (anhydrous); zinc oxide; urea; magnesium oxide

**SARA 311/312 MSDS distribution - chemical inventory - hazard identification:**  
 diiron trioxide: Delayed (chronic) health hazard; iron(ii) sulfate heptahydrate: Delayed (chronic) health hazard; zinc sulphate (anhydrous): Immediate (acute) health hazard, Delayed (chronic) health hazard; zinc oxide: Immediate (acute) health hazard, Delayed (chronic) health hazard; urea: Immediate (acute) health hazard, Delayed (chronic) health hazard; magnesium oxide: Immediate (acute) health hazard

**Clean Water Act (CWA) 307:** zinc sulphate (anhydrous); zinc oxide

**Clean Water Act (CWA) 311:** iron(ii) sulfate heptahydrate; zinc sulphate (anhydrous)

**Clean Air Act (CAA) 112 accidental release prevention:** No products were found.

**Clean Air Act (CAA) 112 regulated flammable substances:** No products were found.

**Clean Air Act (CAA) 112 regulated toxic substances:** No products were found.

**Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)** Not listed

**Clean Air Act Section 602 Class I Substances** Not listed

**Clean Air Act Section 602 Class II Substances** Not listed

**DEA List I Chemicals (Precursor Chemicals)** Not listed

## 15 . Regulatory Information

DEA List II Chemicals  
(Essential Chemicals) Not listed

### SARA 313

	<u>Product name</u>	<u>CAS number</u>	<u>Concentration</u>
<b>Form R - Reporting requirements</b>	zinc sulphate (anhydrous)	7733-02-0	15 - 40
	zinc oxide	1314-13-2	5 - 10
<b>Supplier notification</b>	zinc sulphate (anhydrous)	7733-02-0	15 - 40
	zinc oxide	1314-13-2	5 - 10

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

### **State regulations**

**Connecticut Carcinogen Reporting:** None of the components are listed.

**Connecticut Hazardous Material Survey:** None of the components are listed.

**Florida substances:** None of the components are listed.

**Illinois Chemical Safety Act:** None of the components are listed.

**Illinois Toxic Substances Disclosure to Employee Act:** None of the components are listed.

**Louisiana Reporting:** None of the components are listed.

**Louisiana Spill:** None of the components are listed.

**Massachusetts Spill:** None of the components are listed.

**Massachusetts Substances:** The following components are listed: ZINC SULFATE; IRON OXIDE DUST; FERROUS SULFATE (HEPAHYDRATE); ZINC OXIDE FUME; MAGNESIUM OXIDE FUME

**Michigan Critical Material:** None of the components are listed.

**Minnesota Hazardous Substances:** None of the components are listed.

**New Jersey Hazardous Substances:** The following components are listed: ZINC SULFATE; IRON OXIDE FUME; ZINC OXIDE; MAGNESIUM OXIDE

**New Jersey Spill:** None of the components are listed.

**New Jersey Toxic Catastrophe Prevention Act:** None of the components are listed.

**New York Acutely Hazardous Substances:** The following components are listed: Zinc sulfate; Ferrous sulfate

**New York Toxic Chemical Release Reporting:** None of the components are listed.

**Pennsylvania RTK Hazardous Substances:** The following components are listed: SULFURIC ACID, ZINC SALT (1:1); IRON OXIDE (FE2O3); FERROUS SULFATE; ZINC OXIDE (ZNO); MAGNESIUM OXIDE (MGO)

**Rhode Island Hazardous Substances:** None of the components are listed.

### **United States inventory (TSCA 8b)**

All components are listed or exempted.

### Canada

#### **WHMIS (Canada)**

Not controlled under WHMIS (Canada).

#### **Canadian lists**

**CEPA Toxic substances:** None of the components are listed.

**Canadian ARET:** None of the components are listed.

**Canadian NPRI:** The following components are listed: Zinc; Zinc

**Alberta Designated Substances:** None of the components are listed.

**Ontario Designated Substances:** None of the components are listed.

**Quebec Designated Substances:** None of the components are listed.

#### **Canada inventory**

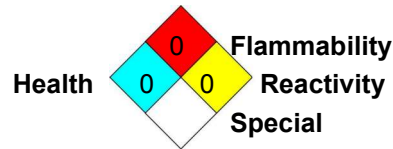
At least one component is not listed in DSL but all such components are listed in NDSL.

## 15 . Regulatory Information

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

### Mexico

#### Classification



### EU regulations

#### Hazard symbol or symbols



#### Risk phrases

R22- Harmful if swallowed.  
 R41- Risk of serious damage to eyes.  
 R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### Safety phrases

S2- Keep out of the reach of children.  
 S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 S29- Do not empty into drains.  
 S39- Wear eye/face protection.  
 S46- If swallowed, seek medical advice immediately and show this container or label.  
 S61- Avoid release to the environment. Refer to special instructions/safety data sheet.

### International regulations

#### International lists

**Australia inventory (AICS):** All components are listed or exempted.  
**China inventory (IECSC):** Not determined.  
**Japan inventory (ENCs):** Not determined.  
**Japan inventory (ISHL):** Not determined.  
**Korea inventory (KECI):** All components are listed or exempted.  
**New Zealand Inventory of Chemicals (NZIoC):** All components are listed or exempted.  
**Philippines inventory (PICCS):** Not determined.

#### Chemical Weapons Convention List Schedule I Chemicals

Not listed

#### Chemical Weapons Convention List Schedule II Chemicals

Not listed

#### Chemical Weapons Convention List Schedule III Chemicals

Not listed

## 16 . Other information

**Label requirements**

CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.

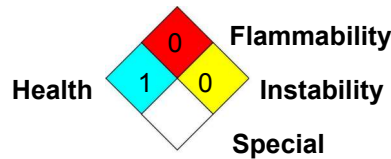
**Hazardous Material Information System (U.S.A.)**

Health	1
Flammability	0
Physical hazards	0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material. Suggested protective clothing might not be adequate. Consult a specialist before handling this product.

**National Fire Protection Association (U.S.A.)**



**Date of issue**

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**Version**

2

☑ Indicates information that has changed from previously issued version.

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