

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : MICRO-BALANCER COMPLETE BLUE
Product code : TAUSA_0-0-0

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Fertilizer
Recommended use : Fertilizers

1.3. Supplier

Timac Agro USA, INC. Inc.
Route 724 & I-176
P.O. Box 888
Reading, PA 19607, PENNSYLVANIA
USA
T 1-800-545-5474
info-fds@roullier.com

1.4. Emergency telephone number

Country	Organization/Company	Address	Emergency number	Comment
Americas	3E		+1-760-476-3962 (Access code : 333021)	(24/7)
USA	USA POISON CONTROL CENTER (24h/7d)		1-800-222-1222	

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Skin corrosion/irritation Category 2	H315	Causes skin irritation
Serious eye damage/eye irritation Category 1	H318	Causes serious eye damage
Specific target organ toxicity (repeated exposure) Category 2	H373	May cause damage to organs through prolonged or repeated exposure

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) :

Danger

Hazard statements (GHS US) :

H315 - Causes skin irritation
H318 - Causes serious eye damage
H373 - May cause damage to organs through prolonged or repeated exposure

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Precautionary statements (GHS US) : P260 - Do not breathe dust.
P280 - Wear protective gloves, protective clothing, eye protection, face protection.
P302+P352 - If on skin: Wash with plenty of soap and water.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a POISON CENTER, a doctor.
P501 - Dispose of contents/container to a hazardous or special waste collection point.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Common Name (Synonyms)	Product identifier	%	GHS US classification
Iron oxide		CAS-No.: 1309-37-1	25 – 50	Not classified
Ulexite		CAS-No.: 1319-33-1	10 – 25	Not classified
Gypsum		CAS-No.: 13397-24-5	10 – 25	Not classified
Manganese oxide		CAS-No.: 1344-43-0	10 – 25	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Zinc oxide		CAS-No.: 1314-13-2	5 – 10	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
sulfuric acid iron(2+) salt monohydrate		CAS-No.: 17375-41-6	1 – 5	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319
Manganese sulphate monohydrate		CAS-No.: 10034-96-5	1 – 5	STOT RE 2, H373 Aquatic Chronic 2, H411
Zinc sulphate monohydrate		CAS-No.: 7446-19-7	1 – 5	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
copper(II) oxide		CAS-No.: 1317-38-0	1 – 5	Acute Tox. 4 (Oral), H302
copper sulphate pentahydrate		CAS-No.: 7758-99-8	1 – 5	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of hazard classes and H-statements : see section 16

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SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general	: IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor/physician if you feel unwell.
First-aid measures after skin contact	: Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after eye contact	: Serious damage to eyes.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam. Use extinguishing media appropriate for surrounding fire.
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5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire	: Toxic fumes may be released.
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5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures	: Ventilate spillage area. Do not breathe dust. Avoid contact with skin and eyes.
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6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
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6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	: Mechanically recover the product. Notify authorities if product enters sewers or public waters.
Other information	: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Do not breathe dust. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes.
- Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in a well-ventilated place. Keep container tightly closed. Protect from moisture.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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No additional information available	
Ulexite (1319-33-1)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	2 mg/m ³
ACGIH OEL STEL	6 mg/m ³
USA - OSHA - Occupational Exposure Limits	
OSHA PEL (TWA) [1]	15 mg/m ³ (dust)
OSHA PEL (STEL) [1]	5 mg/m ³ Respirable Fraction
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL (TWA)	10 mg/m ³
copper(II) oxide (1317-38-0)	
No additional information available	
copper sulphate pentahydrate (7758-99-8)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	1 mg/m ³
ACGIH OEL STEL	1 mg/m ³
ACGIH OEL Ceiling	1 mg/m ³
USA - OSHA - Occupational Exposure Limits	
OSHA PEL (TWA) [1]	1 mg/m ³
OSHA PEL (STEL) [1]	1 mg/m ³
OSHA PEL (Ceiling)	1 mg/m ³
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL (TWA)	1 mg/m ³
NIOSH REL (STEL)	1 mg/m ³
NIOSH REL (Ceiling)	1 mg/m ³

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Iron oxide (1309-37-1)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Iron oxide (Fe ₂ O ₃)
ACGIH OEL TWA	5 mg/m ³ (R - Respirable particulate matter)
Remark (ACGIH)	TLV® Basis: Pneumoconiosis. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2023
USA - OSHA - Occupational Exposure Limits	
Local name	Iron oxide fume
OSHA PEL (TWA) [1]	10 mg/m ³
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
sulfuric acid iron(2+) salt monohydrate (17375-41-6)	
No additional information available	
Manganese oxide (1344-43-0)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA [ppm]	5 ppm
Manganese sulphate monohydrate (10034-96-5)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Manganese, elemental and inorganic compounds, as Mn
ACGIH OEL TWA	0.02 mg/m ³ (R - Respirable particulate matter) 0.1 mg/m ³ (I - Inhalable particulate matter)
Remark (ACGIH)	TLV® Basis: CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2023
Zinc oxide (1314-13-2)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Zinc oxide
ACGIH OEL TWA	2 mg/m ³ (R - Respirable particulate matter)
ACGIH OEL STEL	10 mg/m ³ (R - Respirable particulate matter)
Remark (ACGIH)	TLV® Basis: Metal fume fever
Regulatory reference	ACGIH 2023
USA - OSHA - Occupational Exposure Limits	
Local name	Zinc oxide
OSHA PEL (TWA) [1]	5 mg/m ³ (Fume) 15 mg/m ³ (Total dust) 5 mg/m ³ (Respirable fraction)
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL (TWA)	5 dust
NIOSH REL (Ceiling)	15 mg/m ³ dust

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Zinc sulphate monohydrate (7446-19-7)

No additional information available

Gypsum (13397-24-5)

USA - ACGIH - Occupational Exposure Limits

Local name	Calcium sulfate, gypsum
ACGIH OEL TWA	10 mg/m ³ (I - Inhalable particulate matter)
Remark (ACGIH)	TLV® Basis: Nasal symptoms
Regulatory reference	ACGIH 2023

USA - OSHA - Occupational Exposure Limits

Local name	Gypsum
OSHA PEL (TWA) [1]	15 mg/m ³ (Total dust) 5 mg/m ³ (Respirable fraction)
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.
Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Where excessive dust may result, wear approved mask

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid
Appearance : Granulate.
Color : dark gray
Odor : characteristic
Odor threshold : No data available
pH : 6

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pH solution concentration	: 5 %
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Particle size	: > 2 — < 4 mm > 90%
Relative density	: 1.4
Solubility	: Partially soluble.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosion limits	: Not applicable
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Water, humidity.

10.5. Incompatible materials

No additional information available.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Additional information	: Based on available data, the classification criteria are not met

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Ulexite (1319-33-1)	
LD50 oral rat	2260 mg/kg body weight
ATE US (oral)	2260 mg/kg body weight
copper(II) oxide (1317-38-0)	
ATE US (oral)	500 mg/kg body weight
copper sulphate pentahydrate (7758-99-8)	
LD50 oral rat	480 mg/kg (OECD 401 method)
LD50 dermal rat	> 2000 mg/kg (OECD 402 method)
ATE US (oral)	480 mg/kg body weight
sulfuric acid iron(2+) salt monohydrate (17375-41-6)	
ATE US (oral)	500 mg/kg body weight
Manganese oxide (1344-43-0)	
LD50 oral rat	> 2000 mg/kg (OECD 420 method)
LC50 Inhalation - Rat	> 5.35 mg/l (OECD 403 method)
Manganese sulphate monohydrate (10034-96-5)	
LD50 oral rat	2150 mg/kg Indian Journal of Pharmacology, 23(3): 153-159
LC50 Inhalation - Rat	> 4.45 mg/l (OECD 403 method)
Zinc oxide (1314-13-2)	
LD50 oral rat	> 5000 mg/kg (OECD 401 method)
LC50 Inhalation - Rat	> 5700 mg/m ³ (OECD 403 method)
Zinc sulphate monohydrate (7446-19-7)	
LD50 oral rat	574 mg/kg body weight (OECD 401 method)
LD50 dermal rat	> 2000 mg/kg (OECD 402 method)
ATE US (oral)	500 mg/kg body weight
Skin corrosion/irritation	: Causes skin irritation. (Based on available data, the classification criteria are not met) pH: 6
Manganese sulphate monohydrate (10034-96-5)	
pH	6 – 6.5 10 g/l Water
Zinc sulphate monohydrate (7446-19-7)	
pH	4 – 6
Serious eye damage/irritation	: Causes serious eye damage. pH: 6
Manganese sulphate monohydrate (10034-96-5)	
pH	6 – 6.5 10 g/l Water
Zinc sulphate monohydrate (7446-19-7)	
pH	4 – 6
Respiratory or skin sensitization	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)

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Iron oxide (1309-37-1)	
IARC group	3 - Not classifiable
Manganese sulphate monohydrate (10034-96-5)	
NOAEL (chronic,oral,animal/male,2 years)	615 mg/kg body weight
NOAEL (chronic,oral,animal/female,2 years)	715 mg/kg body weight
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
Manganese oxide (1344-43-0)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.
Manganese sulphate monohydrate (10034-96-5)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified
Viscosity, kinematic	: Not applicable
Zinc oxide (1314-13-2)	
Viscosity, kinematic	Not applicable
Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after eye contact	: Serious damage to eyes.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Toxic to aquatic life.

copper sulphate pentahydrate (7758-99-8)	
EC50 - Crustacea [1]	0.025 mg/l Unit : Cu ; daphnia
NOEC (chronic)	0.0078 mg/l
Manganese sulphate monohydrate (10034-96-5)	
LC50 - Fish [1]	14.5 mg/l Oncorhynchus mykiss (OECD 203 method)
EC50 - Crustacea [1]	9.8 mg/l Daphnia magna (Results obtained on a similar product)
ErC50 algae	61 mg/l Desmodesmus subspicatus (OECD 201 method)
NOEC chronic fish	0.6 mg/l Onchorhynchus mykiss, 4 months
Zinc oxide (1314-13-2)	
LC50 - Fish [1]	1.1 mg/l Oncorhynchus mykiss (Rainbow trout)
EC50 - Other aquatic organisms [1]	0.17 mg/l algae
NOEC (chronic)	0.017 mg/l algae

12.2. Persistence and degradability

Manganese oxide (1344-43-0)	
Persistence and degradability	Not established. Not relevant.

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Manganese sulphate monohydrate (10034-96-5)	
Persistence and degradability	Not readily biodegradable.
Biodegradation	Not applicable
Zinc oxide (1314-13-2)	
Persistence and degradability	Not established.
Zinc sulphate monohydrate (7446-19-7)	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

Manganese oxide (1344-43-0)	
Bioaccumulative potential	Not established. Not relevant.
Manganese sulphate monohydrate (10034-96-5)	
Bioaccumulative potential	Not potentially bioaccumulable.
Zinc oxide (1314-13-2)	
Partition coefficient n-octanol/water (Log Pow)	2.2
Bioaccumulative potential	Low bioaccumulation potential.
Zinc sulphate monohydrate (7446-19-7)	
Bioaccumulative potential	Slightly or not bioaccumulative.

12.4. Mobility in soil

Zinc oxide (1314-13-2)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.2 (Published data)
Ecology - soil	Material nearly insoluble in water.
Zinc sulphate monohydrate (7446-19-7)	
Ecology - soil	Soluble in water. Product adsorbs onto the soil.

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

14.1. UN number

DOT NA No : Not regulated
UN-No. (TDG) : Not regulated

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UN-No. (IMDG) : 3077
UN-No. (IATA) : 3077

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Not regulated
Proper Shipping Name (TDG) : Not regulated
Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Proper Shipping Name (IATA) : Environmentally hazardous substance, solid, n.o.s.

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : Not regulated

TDG

Transport hazard class(es) (TDG) : Not regulated

IMDG

Transport hazard class(es) (IMDG) : 9
Hazard labels (IMDG) : 9



IATA

Transport hazard class(es) (IATA) : 9
Hazard labels (IATA) : 9



14.4. Packing group

Packing group (DOT) : Not regulated
Packing group (TDG) : Not regulated
Packing group (IMDG) : III
Packing group (IATA) : III

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

DOT

Not regulated

TDG

Not regulated

IMDG

Special provision (IMDG) : 274, 335, 966, 967, 969
Limited quantities (IMDG) : 5 kg
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : LP02, P002
Packing provisions (IMDG) : PP12
IBC packing instructions (IMDG) : IBC08
IBC special provisions (IMDG) : B3

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Tank instructions (IMDG)	: BK1, BK2, BK3, T1
Tank special provisions (IMDG)	: TP33
EmS-No. (Fire)	: F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
EmS-No. (Spillage)	: S-F - SPILLAGE SCHEDULE Foxtrot - WATER-SOLUBLE MARINE POLLUTANTS
Stowage category (IMDG)	: A
Stowage and handling (IMDG)	: SW23

IATA

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y956
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 956
PCA max net quantity (IATA)	: 400kg
CAO packing instructions (IATA)	: 956
CAO max net quantity (IATA)	: 400kg
Special provision (IATA)	: A97, A158, A179, A197, A215
ERG code (IATA)	: 9L

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
Ulexite	1319-33-1	Not present	-	
copper(II) oxide	1317-38-0	Present	Active	
copper sulphate pentahydrate	7758-99-8	Present	Active	
Iron oxide	1309-37-1	Present	Active	
sulfuric acid iron(2+) salt monohydrate	17375-41-6	Not present	-	
Manganese oxide	1344-43-0	Present	Active	
Manganese sulphate monohydrate	10034-96-5	Present	Active	
Zinc oxide	1314-13-2	Present	Active	
Zinc sulphate monohydrate	7446-19-7	Present	Active	
Gypsum	13397-24-5	Not present	-	

copper sulphate pentahydrate (7758-99-8)

Subject to reporting requirements of United States SARA Section 313

CERCLA RQ	10 lb
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15.2. International regulations

CANADA

Ulexite (1319-33-1)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

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copper(II) oxide (1317-38-0)

Listed on the Canadian DSL (Domestic Substances List)

copper sulphate pentahydrate (7758-99-8)

Listed on the Canadian DSL (Domestic Substances List)

Iron oxide (1309-37-1)

Listed on the Canadian DSL (Domestic Substances List)

sulfuric acid iron(2+) salt monohydrate (17375-41-6)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

Manganese oxide (1344-43-0)

Listed on the Canadian DSL (Domestic Substances List)

Manganese sulphate monohydrate (10034-96-5)

Listed on the Canadian DSL (Domestic Substances List)

Zinc oxide (1314-13-2)

Listed on the Canadian DSL (Domestic Substances List)

Zinc sulphate monohydrate (7446-19-7)

Listed on the Canadian DSL (Domestic Substances List)

Gypsum (13397-24-5)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

Iron oxide (1309-37-1)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Gypsum (13397-24-5)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. US State regulations

No additional information available

SECTION 16: Other information

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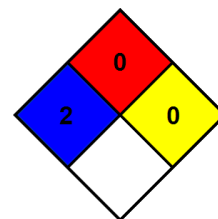
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Full text of H-phrases	
H302	Harmful if swallowed
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects

NFPA health hazard	: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
NFPA fire hazard	: 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.



Safety Data Sheet (SDS), USA

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