

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : BLUE 5-10-15
Product code : BLUE 5-10-15

1.2. Recommended use and restrictions on use

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

1.3. Supplier

Distributor

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

Manufacturer

Rainbow Fertilizer LLC
1011 Oak Avenue
Americus, GA 31709, Georgia 31719
USA
T 1-800-763-0334
www.rainbowplantfood.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 2	H319	Causes serious eye irritation
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) : Warning
Hazard statements (GHS US) : H315 - Causes skin irritation
H319 - Causes serious eye irritation
H373 - May cause damage to organs through prolonged or repeated exposure

BLUE 5-10-15

Safety Data Sheet

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

Precautionary statements (GHS US) : P260 - Do not breathe dust.
P280 - Wear protective gloves, protective clothing, eye protection, face protection.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P314 - Get medical advice/attention if you feel unwell.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

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
Potassium chloride	Muriate of Potash / MOP	CAS-No.: 7447-40-7	25 – 50	Not classified
Calcium sulphate, anhydrous		CAS-No.: 7778-18-9	10 – 25	Not classified
Monoammonium phosphate		CAS-No.: 7722-76-1	10 – 25	Skin Irrit. 2, H315 Eye Irrit. 2B, H320 STOT SE 3, H335
Calcium carbonate		CAS-No.: 1317-65-3	10 – 25	Not classified
Ammonium nitrate		CAS-No.: 6484-52-2	1 – 5	Ox. Sol. 3, H272 Eye Irrit. 2, H319
manganese sulphate		CAS-No.: 7785-87-7	1 – 5	Eye Dam. 1, H318 STOT RE 2, H373
Zinc oxide		CAS-No.: 1314-13-2	1 – 5	Not classified

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

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice. Prompt treatment is essential to minimize damage.
First-aid measures after inhalation : Move to fresh air in case of accidental inhalation. Seek medical attention if ill effect develops.
First-aid measures after skin contact : Wash off with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact : Wash immediately with plenty water (during 20 minutes), also under eyelids. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an eye specialist immediately, even if there are no immediate symptoms. If possible show him this sheet. Failing this, show him the packaging or label.

BLUE 5-10-15

Safety Data Sheet

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

First-aid measures after ingestion : If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting without medical advice. Seek medical attention if ill effect develops.

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

Symptoms/effects : see section(s) : 2.1/2.3).

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, carbon dioxide (CO₂), powder and foam. Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media : None known.

5.2. Specific hazards arising from the chemical

Fire hazard : Not flammable.

Explosion hazard : No direct explosion hazard.

Hazardous decomposition products in case of fire : Thermal decomposition generates : fume.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Contain the extinguishing fluids by bunding.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Complete protective clothing. EN 469. Self-contained breathing apparatus.

Other information : Relevant water authorities should be notified of any large spillage to water course or drain.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Evacuate area.

6.1.1. For non-emergency personnel

Emergency procedures : Do not get in eyes, on skin, or on clothing. Do not breathe dust. Evacuate unnecessary personnel. Mark the danger area. Mechanically ventilate the spillage area. Only qualified personnel equipped with suitable protective equipment may intervene.

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".

Emergency procedures : Ventilate area. Stop leak if safe to do so. Dike and contain spill.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Clean up immediately by sweeping or vacuum. Minimize generation of dust. Gather the product and place it in a spare container that has been suitably labeled.

Other information : Dispose of materials or solid residues at an authorized site.

BLUE 5-10-15

Safety Data Sheet

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

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Ensure good ventilation of the work station. Do not breathe dust. Avoid contact with skin and eyes. Use personal protective equipment as required. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse. Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: The floor of the depot should be impermeable and designed to form a water-tight basin. Comply with applicable regulations.
Storage conditions	: Store in dry, cool, well-ventilated area. Protect from moisture. Keep out of reach of children.
Incompatible products	: Refer to the detailed list of incompatible materials in section 10 Stability/Reactivity.
Storage temperature	: Store at ambient temperature
Heat-ignition	: Keep away from open flames, hot surfaces and sources of ignition.
Information on mixed storage	: Keep away from food, drink and animal feeding stuffs.
Special rules on packaging	: Keep only in original container. Store in a closed container.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

BLUE 5-10-15	
No additional information available	
Potassium chloride (7447-40-7)	
USA - OSHA - Occupational Exposure Limits	
Local name	Total Dust (Inert or Nuisance Dust)
OSHA PEL (TWA) [1]	10 mg/m ³ (dust)
OSHA PEL (TWA) [2]	50 mppcf
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-3 Mineral Dusts
Monoammonium phosphate (7722-76-1)	
No additional information available	
Calcium sulphate, anhydrous (7778-18-9)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Calcium sulfate, the anhydrate
ACGIH OEL TWA	10 mg/m ³ (I - Inhalable particulate matter)
Remark (ACGIH)	TLV® Basis: Nasal symptoms
Regulatory reference	ACGIH 2023

BLUE 5-10-15

Safety Data Sheet

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

Calcium sulphate, anhydrous (7778-18-9)	
USA - OSHA - Occupational Exposure Limits	
Local name	Calcium sulfate
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
manganese sulphate (7785-87-7)	
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
Calcium carbonate (1317-65-3)	
USA - OSHA - Occupational Exposure Limits	
Local name	Calcium Carbonate (Limestone; Marble)
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
Ammonium nitrate (6484-52-2)	
USA - OSHA - Occupational Exposure Limits	
OSHA PEL (TWA) [2]	25 ppm Ammonia
OSHA PEL (STEL) [2]	35 ppm Ammonia
OSHA PEL C [ppm]	25 ppm Ammonia
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL TWA [ppm]	25 ppm Ammonia
NIOSH REL STEL [ppm]	35 ppm Ammonia
NIOSH REL C [ppm]	25 ppm Ammonia
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

BLUE 5-10-15

Safety Data Sheet

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

Zinc oxide (1314-13-2)	
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

8.2. Appropriate engineering controls

Appropriate engineering controls	: Ensure good ventilation of the work station. Local exhaust and general ventilation must be adequate to meet exposure standards.
Environmental exposure controls	: Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems. Assure that emissions are compliant with all applicable air pollution control regulations. Comply with applicable regulations.

8.3. Individual protection measures/Personal protective equipment

Eye protection:		
Safety glasses with side guards should be worn to prevent injury from airborne particles and/or other eye contact with this product		
Type	Field of application	Characteristics
Safety goggles	Dust	With side shields
Skin and body protection:		
Skin protection appropriate to the conditions of use should be provided. In case of repeated or prolonged contact wear gloves		
Type		
Gloves		
Respiratory protection:		
Where excessive dust may result, wear approved mask		
Device	Filter type	Condition
Dust mask	Type P2	Dust protection

Personal protective equipment symbol(s):



Other information:

See Heading 7 : 7.1. Precautions for safe handling.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Granulate.
Color	: Gray light brown

BLUE 5-10-15

Safety Data Sheet

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

Odor	: Odorless
Odor threshold	: No data available
pH	: 5.5 – 6
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)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Density	: 58 – 65 lb/ft ³
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
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 use and storage conditions as recommended in section 7.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Strong acids. Strong bases. oxidizing agents (peroxides, chromates, dichromates). Reducing agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. In case of fire: See Heading 5.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

BLUE 5-10-15

Safety Data Sheet

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

Additional information : No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation

Potassium chloride (7447-40-7)	
LD50 oral rat	2600 mg/kg body weight Safety Data Sheet Supplier
ATE US (oral)	2600 mg/kg body weight
Monoammonium phosphate (7722-76-1)	
LD50 oral rat	> 2000 mg/kg (OECD 425 method)
LD50 dermal rat	> 5000 mg/kg (OECD 402 method)
LC50 Inhalation - Rat	> 5 mg/l (OECD Guideline 403 with diammonium hydrogenorthophosphate; EPA with calcium bis(dihydrogenorthophosphat
Calcium sulphate, anhydrous (7778-18-9)	
LD50 oral rat	> 1581 mg/kg body weight (OECD 420 method)
LC50 Inhalation - Rat	> 2.61 mg/l (OECD 403 method)
manganese sulphate (7785-87-7)	
LD50 oral rat	2150 mg/kg Indian Journal of Pharmacology, 23(3): 153-159
LC50 Inhalation - Rat	> 4.45 mg/l (OECD 403 method)
Ammonium nitrate (6484-52-2)	
LD50 oral rat	2950 mg/kg (OECD 401 method)
LD50 dermal rat	> 5000 mg/kg (OECD 402 method)
LC50 Inhalation - Rat	> 88.8 mg/m ³
Zinc oxide (1314-13-2)	
LD50 oral rat	> 5000 mg/kg (OECD 401 method)
LC50 Inhalation - Rat	> 5700 mg/m ³ (OECD 403 method)
Skin corrosion/irritation	: Causes skin irritation. pH: 5.5 – 6
Monoammonium phosphate (7722-76-1)	
pH	3 – 5
manganese sulphate (7785-87-7)	
pH	6 – 6.5 10 g/l Water
Ammonium nitrate (6484-52-2)	
pH	4.6 – 7.6 95 g/l
Serious eye damage/irritation	: Causes serious eye irritation. pH: 5.5 – 6
Monoammonium phosphate (7722-76-1)	
pH	3 – 5
manganese sulphate (7785-87-7)	
pH	6 – 6.5 10 g/l Water
Ammonium nitrate (6484-52-2)	
pH	4.6 – 7.6 95 g/l

BLUE 5-10-15

Safety Data Sheet

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

Respiratory or skin sensitization	: Not classified (Based on available data, the classification criteria are not met) No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation
Germ cell mutagenicity	: Not classified Based on available data, the classification criteria are not met No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met) No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation

manganese sulphate (7785-87-7)	
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 (Based on available data, the classification criteria are not met) No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met) No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation

Monoammonium phosphate (7722-76-1)	
STOT-single exposure	May cause respiratory irritation.

STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure. (Based on available data, the classification criteria are not met) No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation
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manganese sulphate (7785-87-7)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

Ammonium nitrate (6484-52-2)	
NOAEL (subacute,oral,animal/male,28 days)	≥ 1500 mg/kg body weight rat - (OECD 422 method)

Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met. No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation)
Viscosity, kinematic	: No data available

Monoammonium phosphate (7722-76-1)	
Viscosity, kinematic	Not applicable

Zinc oxide (1314-13-2)	
Viscosity, kinematic	Not applicable

Symptoms/effects	: see section(s) : 2.1/2.3).
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SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: Harmful to aquatic life. No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation. Do not allow uncontrolled discharge of product into the environment.
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BLUE 5-10-15

Safety Data Sheet

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

Potassium chloride (7447-40-7)	
LC50 - Fish [1]	96h 2010 mg/l <i>Lepomis macrochirus</i>
EC50 - Crustacea [2]	337 – 825 mg/l
Monoammonium phosphate (7722-76-1)	
LC50 - Other aquatic organisms [1]	> 1700 mg/l Single Superphosphate
EC50 - Other aquatic organisms [1]	> 100 mg/l (OECD 201 method) Similar substances
Calcium sulphate, anhydrous (7778-18-9)	
LC50 - Fish [1]	> 1970 mg/l <i>Pimephales promelas</i>
EC50 - Crustacea [1]	> 79 mg/l <i>daphnia</i> , (OECD 202 method)
ErC50 algae	> 79 mg/l <i>Selenastrum capricornutum</i> , (OECD 201 method)
manganese sulphate (7785-87-7)	
LC50 - Fish [1]	14.5 mg/l <i>Oncorhynchus mykiss</i> (OECD 203 method)
EC50 - Crustacea [1]	9.8 mg/l <i>Daphnia magna</i> (Results obtained on a similar product)
ErC50 algae	61 mg/l <i>Desmodesmus subspicatus</i> (OECD 201 method)
NOEC chronic fish	0.6 mg/l <i>Onchorhynchus mykiss</i> , 4 months
Ammonium nitrate (6484-52-2)	
LC50 - Fish [1]	447 mg/l <i>Cyprinus carpio</i> (Common carp), 48 Hours
EC50 - Crustacea [1]	490 mg/l 48 Hours, (Results obtained on a similar product)
ErC50 algae	> 1700 mg/l 10 days, (Results obtained on a similar product)
NOEC chronic crustacea	555 mg/l 168 Hours, <i>Bullia Digitalis</i>
Zinc oxide (1314-13-2)	
LC50 - Fish [1]	1.1 mg/l <i>Oncorhynchus mykiss</i> (Rainbow trout)
EC50 - Other aquatic organisms [1]	0.17 mg/l algae
NOEC (chronic)	0.017 mg/l algae

12.2. Persistence and degradability

BLUE 5-10-15	
Persistence and degradability	Not established.
Monoammonium phosphate (7722-76-1)	
Persistence and degradability	Not established.
Calcium sulphate, anhydrous (7778-18-9)	
Persistence and degradability	Not established.
manganese sulphate (7785-87-7)	
Persistence and degradability	Not readily biodegradable.
Biodegradation	Not applicable
Calcium carbonate (1317-65-3)	
Persistence and degradability	Not established.

BLUE 5-10-15

Safety Data Sheet

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

Ammonium nitrate (6484-52-2)	
Persistence and degradability	Not applicable (inorganic substance).

Zinc oxide (1314-13-2)	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

BLUE 5-10-15	
Bioaccumulative potential	Not established.

Potassium chloride (7447-40-7)	
Partition coefficient n-octanol/water (Log Pow)	Not applicable
Partition coefficient n-octanol/water (Log Kow)	Not applicable
Bioaccumulative potential	Low bioaccumulation potential. Data sources : Safety Data Sheet Supplier.

Monoammonium phosphate (7722-76-1)	
Partition coefficient n-octanol/water (Log Pow)	Not applicable
Partition coefficient n-octanol/water (Log Kow)	Not applicable
Bioaccumulative potential	Low bioaccumulation potential. Data sources : Safety Data Sheet Supplier.

Calcium sulphate, anhydrous (7778-18-9)	
Bioaccumulative potential	Bioaccumulation unlikely.

manganese sulphate (7785-87-7)	
Bioaccumulative potential	Not potentially bioaccumulable.

Calcium carbonate (1317-65-3)	
Bioaccumulative potential	Not established.

Ammonium nitrate (6484-52-2)	
Bioaccumulative potential	Slightly or not bioaccumulative.

Zinc oxide (1314-13-2)	
Partition coefficient n-octanol/water (Log Pow)	2.2
Bioaccumulative potential	Low bioaccumulation potential.

12.4. Mobility in soil

Potassium chloride (7447-40-7)	
Ecology - soil	Low mobility (soil). Safety Data Sheet Supplier.

Monoammonium phosphate (7722-76-1)	
Ecology - soil	Not applicable. Safety Data Sheet Supplier.

Calcium sulphate, anhydrous (7778-18-9)	
Ecology - soil	Small adsorption.

Zinc oxide (1314-13-2)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.2 (Published data)

BLUE 5-10-15

Safety Data Sheet

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

Zinc oxide (1314-13-2)

Ecology - soil

Material nearly insoluble in water.

12.5. Other adverse effects

Other adverse effects : May cause eutrophication at very low concentration.
Other information : No other effects known.

SECTION 13: Disposal considerations

13.1. Disposal methods

Regional legislation (waste) : Disposal must be done according to official regulations.
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations : Discharging into rivers and drains is forbidden.
Additional information : Do not re-use empty containers.

SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Not applicable
Proper Shipping Name (TDG) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable

14.3. Transport hazard class(es)

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

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

IMDG
Transport hazard class(es) (IMDG) : Not applicable

IATA
Transport hazard class(es) (IATA) : Not applicable

14.4. Packing group

Packing group (DOT) : Not applicable
Packing group (TDG) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable

14.5. Environmental hazards

Other information : No supplementary information available.

BLUE 5-10-15

Safety Data Sheet

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

14.6. Special precautions for user

DOT

No data available

TDG

No data available

IMDG

No data available

IATA

No data available

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
Potassium chloride	7447-40-7	Present	Active	
Monoammonium phosphate	7722-76-1	Present	Active	
Calcium sulphate, anhydrous	7778-18-9	Present	Active	
manganese sulphate	7785-87-7	Present	Active	
Calcium carbonate	1317-65-3	Present	Active	
Ammonium nitrate	6484-52-2	Present	Active	
Zinc oxide	1314-13-2	Present	Active	

15.2. International regulations

CANADA

Potassium chloride (7447-40-7)

Listed on the Canadian DSL (Domestic Substances List)

Monoammonium phosphate (7722-76-1)

Listed on the Canadian DSL (Domestic Substances List)

Calcium sulphate, anhydrous (7778-18-9)

Listed on the Canadian DSL (Domestic Substances List)

manganese sulphate (7785-87-7)

Listed on the Canadian DSL (Domestic Substances List)

BLUE 5-10-15

Safety Data Sheet

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

Calcium carbonate (1317-65-3)

Listed on the Canadian NDSL (Non-Domestic Substances List)

Ammonium nitrate (6484-52-2)

Listed on the Canadian DSL (Domestic Substances List)

Zinc oxide (1314-13-2)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

BLUE 5-10-15

Ensure all national/local regulations are observed

Potassium chloride (7447-40-7)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Calcium carbonate (1317-65-3)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. US State regulations

No additional information available

SECTION 16: Other information

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

Data sources : Safety Data Sheet Supplier.

Full text of H-phrases

H272	May intensify fire; oxidizer
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H320	Causes eye irritation
H335	May cause respiratory irritation
H373	May cause damage to organs through prolonged or repeated exposure

Abbreviations and acronyms

ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
DMEL	Derived Minimal Effect level

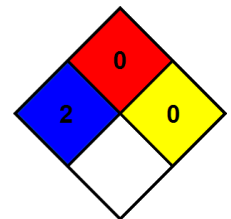
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Safety Data Sheet

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

Abbreviations and acronyms	
DNEL	Derived-No Effect Level
EC50	Median effective concentration
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
SDS	Safety Data Sheet
STP	Sewage treatment plant
vPvB	Very Persistent and Very Bioaccumulative
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
ED	Endocrine disrupting properties

- 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.



- Hazard Rating
- Health : 2 Moderate Hazard - Temporary or minor injury may occur
- Flammability : 0 Minimal Hazard - Materials that will not burn
- Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
- Personal protection : E - Safety glasses, Gloves, Dust respirator

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.