

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

Issue date 02/24/2021

Reviewed on 02/24/2021

1 Identification

- **Product Identifier**
- **Trade Name:** 23-4-12-090-LND
- **Relevant identified uses of the substance or mixture and uses advised against:**
- **Product Description:** Fertilizer
- **Details of the Supplier of the Safety Data Sheet:**
- **Manufacturer/Supplier:**
Florikan ESA, LLC
6801 Energy Ct. Suite 100
Sarasota, FL 34234
Ph: 941-379-4048 ext 332
Fax: 941-377-3633
Email product info: Doug Cabe; dcabe@florikan.com
- **Emergency telephone number:** Chemtrec 1-800-424-9300 or outside USA 1-703-527-3887

www.Florikan.com

2 Hazard(s) Identification

- **Classification of the substance or mixture:**



Environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



Skin Irrit. 2	H315 Causes skin irritation.
STOT SE 3	H335 May cause respiratory irritation.
Eye Irrit. 2B	H320 Causes eye irritation.
Aquatic Acute 3	H402 Harmful to aquatic life.

- **Label elements:**
- **Hazard pictograms:**



- **Signal word:** Warning
- **Hazard-determining components of labeling:**
Ammonium Nitrate
Ammonium phosphate monobasic
Magnesium Sulphate
- **Hazard statements:**
H315+H320 Causes skin and eye irritation.
H335 May cause respiratory irritation.
H402 Harmful to aquatic life.
H411 Toxic to aquatic life with long lasting effects.
- **Precautionary statements:**
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 Wash thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.

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- P273 Avoid release to the environment.
P280 Wear protective gloves.
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 supplementary first aid instructions on this Safety Data Sheet).
P362+P364 Take off contaminated clothing and wash it before reuse.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P391 Collect spillage.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Unknown acute toxicity:**

This value refers to knowledge of known, established toxicological or ecotoxicological values.

18.6 % of the mixture consists of component(s) of unknown toxicity.

· **Classification system:** NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

· **NFPA ratings (scale 0 - 4)**



· **HMIS-ratings (scale 0 - 4)**



· **Hazard(s) not otherwise classified (HNOC):** None known

3 Composition/Information on Ingredients

· **Chemical characterization: Substance**

· **Description:** Mixture of substances listed below with non-hazardous additions.

· **Dangerous Components:**

CAS: 57-13-6 RTECS: YR 6250000	Urea	15-35%
CAS: 7757-79-1 RTECS: TT 3700000	Potassium Nitrate ⚠ Ox. Sol. 2, H272	15-35%
CAS: 6484-52-2 RTECS: BR9050000	Ammonium Nitrate ⚠ Ox. Sol. 3, H272; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	14.500%
CAS: 12125-02-9 RTECS: BP 4550000	Ammonium Chloride ⚠ Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Irrit. 2A, H319	14.500%
CAS: 7722-76-1	Ammonium phosphate monobasic ⚠ Skin Irrit. 2, H315; STOT SE 3, H335; Eye Irrit. 2B, H320	2-12%

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CAS: 7487-88-9 RTECS: OM 4500000	Magnesium Sulphate ⚠ STOT SE 3, H335	2-12%
CAS: 1309-48-4	Magnesium Oxide ⚠ Acute Tox. 4, H302	≤2.5%
CAS: 7720-78-7 RTECS: NO 8510000	iron sulphate ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319	≤2.5%
CAS: 7758-99-8 RTECS: GL 8800000	Copper Sulfate Pentahydrate ⚠ Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10); ⚠ Acute Tox. 4, H302	≤2.5%

• **Additional information:**

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

4 First-Aid Measures

• **Description of first aid measures**

• **General information:** If symptoms persist, call a physician.

• **After inhalation:**

Supply fresh air. If required, provide artificial respiration. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in the side position for transportation.

• **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation occurs, consult a doctor.

• **After eye contact:**

Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor.

If easy to do so, remove contact lenses if worn.

If eye irritation occurs, consult a doctor.

Rinse opened eye for several minutes under running water.

• **After swallowing:** If swallowed and symptoms occur, consult a doctor.

• **Information for doctor**

• **Most important symptoms and effects, both acute and delayed:** No further relevant information available.

• **Indication of any immediate medical attention and special treatment needed:**

No further relevant information available.

5 Fire-Fighting Measures

• **Extinguishing media**

• **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.

• **For safety reasons unsuitable extinguishing agents:** No further relevant information.

• **Special hazards arising from the substance or mixture:** No further relevant information available.

• **Advice for firefighters**

• **Special protective equipment for firefighters:**

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

6 Accidental Release Measures

• **Personal precautions, protective equipment and emergency procedures:** Not required.

• **Environmental precautions:**

Inform respective authorities in case of seepage into water course or sewage system.

• **Methods and material for containment and cleaning up:**

Dispose of contaminated material as waste according to section 13.

Ensure adequate ventilation.

Dispose of the collected material according to regulations.

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· **Reference to other sections:**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

· **Protective Action Criteria for Chemicals**

· **PAC-1:**

57-13-6	Urea	30 mg/m ³
7757-79-1	Potassium Nitrate	9 mg/m ³
6484-52-2	Ammonium Nitrate	6.7 mg/m ³
12125-02-9	Ammonium Chloride	20 mg/m ³
7722-76-1	Ammonium phosphate monobasic	17 mg/m ³
7487-88-9	Magnesium Sulphate	20 mg/m ³
1317-61-9	Iron Oxide	21 mg/m ³
1309-48-4	Magnesium Oxide	30 mg/m ³
7720-78-7	iron sulphate	8.2 mg/m ³
7783-20-2	Ammonium Sulfate	13 mg/m ³
10034-96-5	Manganese(II) Sulfate Monohydrate	9.2 mg/m ³
7758-99-8	Copper Sulfate Pentahydrate	12 mg/m ³
7733-02-0	Zinc Sulphate (anhydrous)	15 mg/m ³
1314-13-2	Zinc Oxide	10 mg/m ³
7631-95-0	Sodium Molybdate	3.2 mg/m ³

· **PAC-2:**

57-13-6	Urea	280 mg/m ³
7757-79-1	Potassium Nitrate	100 mg/m ³
6484-52-2	Ammonium Nitrate	73 mg/m ³
12125-02-9	Ammonium Chloride	54 mg/m ³
7722-76-1	Ammonium phosphate monobasic	190 mg/m ³
7487-88-9	Magnesium Sulphate	220 mg/m ³
1317-61-9	Iron Oxide	230 mg/m ³
1309-48-4	Magnesium Oxide	120 mg/m ³
7720-78-7	iron sulphate	41 mg/m ³
7783-20-2	Ammonium Sulfate	140 mg/m ³
10034-96-5	Manganese(II) Sulfate Monohydrate	15 mg/m ³
7758-99-8	Copper Sulfate Pentahydrate	32 mg/m ³
7733-02-0	Zinc Sulphate (anhydrous)	97 mg/m ³
1314-13-2	Zinc Oxide	15 mg/m ³
7631-95-0	Sodium Molybdate	17 mg/m ³

· **PAC-3:**

57-13-6	Urea	1,700 mg/m ³
7757-79-1	Potassium Nitrate	600 mg/m ³
6484-52-2	Ammonium Nitrate	440 mg/m ³
12125-02-9	Ammonium Chloride	330 mg/m ³
7722-76-1	Ammonium phosphate monobasic	1,100 mg/m ³

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7487-88-9	Magnesium Sulphate	1,300 mg/m ³
1317-61-9	Iron Oxide	1,400 mg/m ³
1309-48-4	Magnesium Oxide	730 mg/m ³
7720-78-7	iron sulphate	250 mg/m ³
7783-20-2	Ammonium Sulfate	840 mg/m ³
10034-96-5	Manganese(II) Sulfate Monohydrate	90 mg/m ³
7758-99-8	Copper Sulfate Pentahydrate	190 mg/m ³
7733-02-0	Zinc Sulphate (anhydrous)	580 mg/m ³
1314-13-2	Zinc Oxide	2,500 mg/m ³
7631-95-0	Sodium Molybdate	100 mg/m ³

7 Handling and Storage

- **Handling**
- **Precautions for safe handling:**
Avoid creating and breathing dust/fume/gas/mist/vapors/spray.
Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s):** No further relevant information available.

8 Exposure Controls/Personal Protection

- **Additional information about design of technical systems:** No further data; see section 7.
- **Control parameters:**
- **Components with occupational exposure limits:**
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

57-13-6 Urea	
WEEL	Long-term value: 10 mg/m³
12125-02-9 Ammonium Chloride	
REL	Short-term value: 20 mg/m³ Long-term value: 10 mg/m³
TLV	Short-term value: 20 mg/m³ Long-term value: 10 mg/m³
1309-48-4 Magnesium Oxide	
PEL	Long-term value: 15* mg/m³ fume; *total particulate
TLV	Long-term value: 10* mg/m³ *as inhalable fraction

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Trade Name: 23-4-12-090-LND

7720-78-7 iron sulphate

REL	Long-term value: 1 mg/m ³ as Fe
TLV	Long-term value: 1 mg/m ³ as Fe

- **Additional information:** The lists that were valid during the creation of this SDS were used as basis.
- **Exposure controls:**
- **Personal protective equipment**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing and wash before reuse.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
- **Breathing equipment:** Not required.
- **Protection of hands:**



Protective gloves

- **Material of gloves:**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material:**
The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.
- **Eye protection:**



Tightly sealed goggles

- **Limitation and supervision of exposure into the environment:**
Keep away from drains, surface and ground waters.
Avoid release into the environment.

9 Physical and Chemical Properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
 - Form:** Granulate
 - Color:** Gray
- **Odor:** Slight
- **Odor threshold:** Not determined.
- **pH-value:** Not determined.
- **Change in condition**
 - Melting point/Melting range:** Not determined.
- **Flash point:** None

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- **Flammability (solid, gaseous):** Not determined.
- **Ignition temperature:** Not applicable
- **Decomposition temperature:** Not determined.
- **Auto igniting:** Product is not self-igniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**
 - Lower:** Not determined.
 - Upper:** Not determined.
- **Vapor pressure:** Not applicable.
- **Density:** Not determined.
- **Relative density:** Not determined.
- **Vapor density:** Not applicable.
- **Evaporation rate:** Not applicable.
- **Solubility in / Miscibility with:**
 - Water:** Soluble.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
 - Dynamic:** Not applicable.
 - Kinematic:** Not applicable.
- **Solvent content:**
 - VOC content:** 0.00 %
 - Solids content:** 100.0 %
- **Other information:** No further relevant information available.

10 Stability and Reactivity

- **Reactivity:** No further relevant information available.
- **Chemical stability:** Product is stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** No further relevant information available.
- **Incompatible materials:** Urea reacts with calcium hypochlorite or sodium hypochlorite to form the explosive nitrogen trichloride.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological Information

- **Information on toxicological effects:**
- **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

57-13-6 Urea

Oral	LD50	8,471 mg/kg (Rat)
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7757-79-1 Potassium Nitrate

Oral	LD50	3,750 mg/kg (Rat)
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6484-52-2 Ammonium Nitrate		
Oral	LD50	2,217 mg/kg (Rat)
12125-02-9 Ammonium Chloride		
Oral	LD50	1,650 mg/kg (Rat)
Inhalative	LC50/96 hours	3.98 mg/l (Trout)
7722-76-1 Ammonium phosphate monobasic		
Oral	LD50	5,750 mg/kg (Rat)
Dermal	LD50	7,640 mg/kg (Rabbit)
7487-88-9 Magnesium Sulphate		
Oral	LD50	>2,000 mg/kg (Rat)
Inhalative	LC50/4 h	>2,000 mg/l (Rabbit)
	LC50/96 hours	2,820 mg/l (Pimephales)
1309-48-4 Magnesium Oxide		
Oral	LD50	810 mg/kg (Mouse)
7720-78-7 iron sulphate		
Oral	LD50	1,520 mg/kg (Mouse)
7758-99-8 Copper Sulfate Pentahydrate		
Oral	LD50	300 mg/kg (Rat)

· **Primary irritant effect:**

· **On the skin:** Irritant to skin and mucous membranes.

· **On the eye:** Irritating effect.

· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

· **Carcinogenic categories:**

· **IARC (International Agency for Research on Cancer):**

None of the ingredients are listed.

· **NTP (National Toxicology Program):**

None of the ingredients are listed.

· **OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

12 Ecological Information

· **Toxicity:**

· **Aquatic toxicity:**

Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.

57-13-6 Urea	
EC50	>10,000 mg/l (Daphnia)
7757-79-1 Potassium Nitrate	
EC50	226 mg/l (Water flea)
7487-88-9 Magnesium Sulphate	
EC50	2,700 mg/l (Green algae)
	343.56 mg/l (Water flea)

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Trade Name: 23-4-12-090-LND

- **Persistence and degradability:** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential:** No further relevant information available.
- **Mobility in soil:** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:**
Toxic for fish
Harmful to fish
- **Additional ecological information:**
- **General notes:**
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
Poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms
Harmful to aquatic organisms
- **Results of PBT and vPvB assessment:**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects:** No further relevant information available.

13 Disposal Considerations

- **Waste treatment methods**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Observe all federal, state and local environmental regulations when disposing of this material.
- **Uncleaned packaging**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport Information

- **UN-Number:**
 - **DOT**
 - **ADR/ADN, IMDG, IATA**
 - **UN proper shipping name:**
 - **DOT**
 - **ADR/ADN**
 - **IMDG**
 - **IATA**
 - **Transport hazard class(es):**
 - **DOT**
 - **Class:**
- Non-Regulated Material
UN3077
- Non-Regulated Material
UN3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Ammonium Chloride)
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Ammonium Chloride, Copper Sulfate Pentahydrate), MARINE POLLUTANT
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Ammonium Chloride)
- Non-Regulated Material

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· ADR/ADN



- **Class:** 9 (M7) Miscellaneous dangerous substances and articles
- **Label:** 9

· IMDG, IATA



- **Class:** 9 Miscellaneous dangerous substances and articles
- **Label:** 9
- **Packing group:**
- **DOT** Non-Regulated Material
- **ADR/ADN, IMDG, IATA** III
- **Environmental hazards:**
- **Special marking (ADR/ADN):** Symbol (fish and tree)
- **Special marking (IATA):** Symbol (fish and tree)
- **Special precautions for user:** Warning: Miscellaneous dangerous substances and articles
- **Hazard identification number (Kemler code):** 90
- **EMS Number:** F-A,S-F
- **Stowage Category** A
- **Stowage Code** SW23 When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.

· Transport/Additional information:

· ADR/ADN

- **Excepted quantities (EQ):** Code: E1
Maximum net quantity per inner packaging: 30 g
Maximum net quantity per outer packaging: 1000 g

· IMDG

- **Limited quantities (LQ):** 5 kg
- **Excepted quantities (EQ):** Code: E1
Maximum net quantity per inner packaging: 30 g
Maximum net quantity per outer packaging: 1000 g
- **UN "Model Regulation":** UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (AMMONIUM CHLORIDE), 9, III

15 Regulatory Information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture:**
No further relevant information available.
- **SARA (Superfund Amendments and Reauthorization):**

· Section 355 (extremely hazardous substances):

7720-78-7 iron sulphate

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· Section 313 (Specific toxic chemical listings):		
7757-79-1	Potassium Nitrate	
6484-52-2	Ammonium Nitrate	
7783-20-2	Ammonium Sulfate	
11129-60-5	Manganese oxide	
10034-96-5	Manganese(II) Sulfate Monohydrate	
7758-99-8	Copper Sulfate Pentahydrate	
7733-02-0	Zinc Sulphate (anhydrous)	
1314-13-2	Zinc Oxide	
· TSCA (Toxic Substances Control Act):		
57-13-6	Urea	ACTIVE
7757-79-1	Potassium Nitrate	ACTIVE
6484-52-2	Ammonium Nitrate	ACTIVE
12125-02-9	Ammonium Chloride	ACTIVE
7722-76-1	Ammonium phosphate monobasic	ACTIVE
7487-88-9	Magnesium Sulphate	ACTIVE
1317-61-9	Iron Oxide	ACTIVE
1309-48-4	Magnesium Oxide	ACTIVE
7720-78-7	iron sulphate	ACTIVE
25791-96-2	Poly(oxypropylene) triol	ACTIVE
7783-20-2	Ammonium Sulfate	ACTIVE
7647-14-5	Sodium Chloride	ACTIVE
7733-02-0	Zinc Sulphate (anhydrous)	ACTIVE
1314-13-2	Zinc Oxide	ACTIVE
7631-95-0	Sodium Molybdate	ACTIVE
· Hazardous Air Pollutants		
11129-60-5	Manganese oxide	
10034-96-5	Manganese(II) Sulfate Monohydrate	
· California Proposition 65:		
· Chemicals known to cause cancer:		
None of the ingredients are listed.		
· Chemicals known to cause reproductive toxicity for females:		
None of the ingredients are listed.		
· Chemicals known to cause reproductive toxicity for males:		
None of the ingredients are listed.		
· Chemicals known to cause developmental toxicity:		
None of the ingredients are listed.		
· New Jersey Right-to-Know List:		
7757-79-1	Potassium Nitrate	
6484-52-2	Ammonium Nitrate	
12125-02-9	Ammonium Chloride	
1309-48-4	Magnesium Oxide	

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Trade Name: 23-4-12-090-LND

7720-78-7	iron sulphate
7733-02-0	Zinc Sulphate (anhydrous)
1314-13-2	Zinc Oxide

· **New Jersey Special Hazardous Substance List:**

6484-52-2	Ammonium Nitrate	R3
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· **Pennsylvania Right-to-Know List:**

7757-79-1	Potassium Nitrate
6484-52-2	Ammonium Nitrate
12125-02-9	Ammonium Chloride
1309-48-4	Magnesium Oxide
7720-78-7	iron sulphate
7783-20-2	Ammonium Sulfate
7733-02-0	Zinc Sulphate (anhydrous)
1314-13-2	Zinc Oxide

· **Pennsylvania Special Hazardous Substance List:**

6484-52-2	Ammonium Nitrate	E
12125-02-9	Ammonium Chloride	E
7720-78-7	iron sulphate	E
7783-20-2	Ammonium Sulfate	E
7733-02-0	Zinc Sulphate (anhydrous)	E
1314-13-2	Zinc Oxide	E

· **Carcinogenic categories:**

· **EPA (Environmental Protection Agency):**

57-13-6	Urea	II
11129-60-5	Manganese oxide	D
10034-96-5	Manganese(II) Sulfate Monohydrate	D
7733-02-0	Zinc Sulphate (anhydrous)	D, I, II
1314-13-2	Zinc Oxide	D, I, II

· **TLV (Threshold Limit Value established by ACGIH):**

1309-48-4	Magnesium Oxide	A4
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· **NIOSH-Ca (National Institute for Occupational Safety and Health):**

None of the ingredients are listed.

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms:**



· **Signal word:** Warning

· **Hazard-determining components of labeling:**

Ammonium Nitrate
Ammonium phosphate monobasic
Magnesium Sulphate

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Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

Issue date 02/24/2021

Reviewed on 02/24/2021

Trade Name: 23-4-12-090-LND

· **Hazard statements:**

- H315+H320 Causes skin and eye irritation.
- H335 May cause respiratory irritation.
- H402 Harmful to aquatic life.
- H411 Toxic to aquatic life with long lasting effects.

· **Precautionary statements:**

- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
- P264 Wash thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P273 Avoid release to the environment.
- P280 Wear protective gloves.
- 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 supplementary first aid instructions on this Safety Data Sheet).
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P391 Collect spillage.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **National regulations:**

None of the ingredients are listed.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

· **Contact:**

· **Date of last revision/ revision number:** 02/24/2021 / -

· **Abbreviations and acronyms:**

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road
 ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
 IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transportation
 IATA: International Air Transport Association
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 NFPA: National Fire Protection Association (USA)
 HMIS: Hazardous Materials Identification System (USA)
 VOC: Volatile Organic Compounds (USA, EU)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative
 NIOSH: National Institute for Occupational Safety and Health
 OSHA: Occupational Safety & Health Administration
 TLV: Threshold Limit Value
 PEL: Permissible Exposure Limit

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REL: Recommended Exposure Limit

Ox. Sol. 2: Oxidizing solids – Category 2

Ox. Sol. 3: Oxidizing solids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard – Category 3

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

· *** Data compared to the previous version altered.**SDS created by MSDS Authoring Services www.msdsauthoring.com +1-877-204-9106