

Safety Data Sheet

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

Printing date 05/29/2024

Reviewed on 05/29/2024

* 1 Identification

- **Product identifier**
- **Trade name: 23-0-15-180B-GALX**
- **Product Description:** Fertilizer
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
 FLORIKAN E.S.A. LLC
 2404 Commerce Court
 Bowling Green, Florida 33834
 (941) 379-4048
- **Emergency telephone number:**
 For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident
 Call CHEMTREC Day or Night
 Within USA and Canada: 1-800-424-9300
 Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

* 2 Hazard(s) identification

- **Classification of the substance or mixture**
 The product does not need classification according to OSHA HazCom Standard 29 CFR paragraph (d) of §1910.1200(g) and GHS Rev 03.
 The product is not classified, according to the Globally Harmonized System (GHS).

- **Additional information:** Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

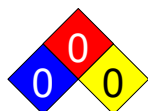
· **Label elements**

- **GHS label elements** Non-Regulated Material
- **Hazard pictograms** Non-Regulated Material
- **Signal word** Non-Regulated Material
- **Hazard statements** Non-Regulated Material

· **Unknown acute toxicity:**

This value refers to knowledge of known, established toxicological or ecotoxicological values.
 0 % 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)**



Health = 0
 Fire = 0
 Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = 0
 Fire = 0
 Reactivity = 0

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

* 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

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Dangerous components:

Non-Regulated Material

CAS: 57-13-6 RTECS: YR 6250000	urea	23%
CAS: 7704-34-9	sulfur ⚠ Skin Irritation 2, H315	7.6%
CAS: 7782-50-5 RTECS: FO 2100000	chlorine ⚠ Oxidizing Gases 1, H270; ⚠ Acute Toxicity - Inhalation 3, H331; ⚠ Skin Irritation 2, H315; Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H335	1%

Additional information:

DERIVED FROM: Polymer Coated: Urea, Muriate of Potash, Magnesium Sulfate, Copper Sulfate, Iron Sulfate, Iron EDTA, Manganese Sulfate, Zinc Sulfate | The Nitrogen, Potassium, Iron EDTA, Iron Sulfate, Magnesium Sulfate, Manganese Sulfate and Zinc Sulfate have been polymer coated to provide: Controlled release: 23% Nitrogen, 15% Potassium, 1.2% Magnesium, 7.6% Sulfur, 0.0% Copper, .59% Iron, .11% Manganese and .06% Zinc

* 4 First-aid measures

Description of first aid measures

General information: No special measures required.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact:

Wash with soap and water.

If skin irritation occurs, consult a doctor.

After eye contact:

Rinse opened eye for several minutes under running water.

If eye irritation occurs, consult a doctor.

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 Treat symptomatically.

* 5 Fire-fighting measures

Extinguishing media

Suitable extinguishing agents:

Use fire fighting measures that suit the environment.

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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

Protective equipment:

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: Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up: Pick up mechanically.

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.

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· Protective Action Criteria for Chemicals

Protective Action Criteria (PACs) are essential components for planning and response to uncontrolled releases of hazardous chemicals.

· PAC-1:

PAC 1: Mild, transient health effects.

57-13-6	urea	30 mg/m ³
7727-37-9	Slow release nitrogen	7.96E+05 ppm
7439-95-4	Magnesium	18 mg/m ³
7782-50-5	chlorine	0.50 ppm
7439-89-6	iron	3.2 mg/m ³
7439-96-5	manganese	3 mg/m ³
7440-50-8	copper	3 mg/m ³

· PAC-2:

PAC 2: Irreversible or other serious health effects that could impair the ability to take protective action.

57-13-6	urea	280 mg/m ³
7727-37-9	Slow release nitrogen	8.32E+05 ppm
7439-95-4	Magnesium	200 mg/m ³
7782-50-5	chlorine	2.0 ppm
7439-89-6	iron	35 mg/m ³
7439-96-5	manganese	5 mg/m ³
7440-50-8	copper	33 mg/m ³

· PAC-3:

PAC 3: Life-threatening health effects.

57-13-6	urea	1,700 mg/m ³
7727-37-9	Slow release nitrogen	8.69E+05 ppm
7439-95-4	Magnesium	1,200 mg/m ³
7782-50-5	chlorine	20 ppm
7439-89-6	iron	150 mg/m ³
7439-96-5	manganese	1,800 mg/m ³
7440-50-8	copper	200 mg/m ³

* 7 Handling and storage

· Handling:

· **Precautions for safe handling** No special precautions are necessary if used correctly.

· **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:**

Keep out of reach of children.

Store in a cool, dry place in tightly closed receptacles.

Protect from moisture.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:**

Protect from humidity and water.

Store in cool, dry conditions in well sealed receptacles.

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 · **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 limit values that require monitoring at the workplace:**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

57-13-6 urea	
WEEL	Long-term value: 10 mg/m ³
7727-37-9 Slow release nitrogen	
TLV	see App. F Minimal oxygen content (D)
7782-50-5 chlorine	
PEL	Ceiling limit value: 3 mg/m ³ , 1 ppm
REL	Ceiling limit value: 1.45 mg/m ³ , 0.5 ppm *15-min
TLV	Short-term value: 0.4 ppm Long-term value: 0.1 ppm A4

 · **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:** Wash hands before breaks and at the end of work.

 · **Breathing equipment:** Not required.

 · **Protection of hands:** Not required.

 · **Eye protection:** Not required.

 · **Limitation and supervision of exposure into the environment** None

* 9 Physical and chemical properties

 · **Information on basic physical and chemical properties**

 · **General Information**

 · **Appearance:**

Form: Granulate

Color: Grey

 · **Odor:** Slight

 · **Odor threshold:** Not determined.

 · **pH-value:** Not applicable.

 · **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Undetermined.

 · **Flash point:** Not applicable.

 · **Flammability (solid, gaseous):** Not determined.

 · **Decomposition temperature:** Not determined.

 · **Ignition temperature:** Product is not selfigniting.

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- **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** The product is stable under normal conditions.
- **Chemical stability** 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:** No further relevant information available.
- **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:**

ATE (Acute Toxicity Estimate)

Inhalative	LC50/4 h	29,300 mg/l (rat)
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57-13-6 urea

Oral	LD50	8,471 mg/kg (rat)
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7782-50-5 chlorine

Inhalative	LC50/4 h	293 mg/l (rat)
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- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.

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· **Additional toxicological information:**

· **Carcinogenic categories**

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

None of the ingredients is listed.

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

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

None of the ingredients is listed.

12 Ecological information

· **Toxicity**

· **Aquatic toxicity:** No further relevant information available.

· **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.

· **Additional ecological information:**

· **General notes:**

Water hazard class 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

· **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 packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

*14 Transport information

· **UN-Number**

· **DOT, IMDG, IATA** not regulated

· **UN proper shipping name**

· **DOT, IMDG, IATA** not regulated

· **Transport hazard class(es)**

· **DOT, ADN, IMDG, IATA**

· **Class** not regulated

· **Packing group**

· **DOT, IMDG, IATA** not regulated

· **Environmental hazards:**

Not applicable.

· **Special precautions for user**

Not applicable.

· **Transport in bulk according to Annex II of**

MARPOL73/78 and the IBC Code

Not applicable.

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· **UN "Model Regulation":** not regulated

*15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
No further relevant information available.

· **Sara**

· **Section 355 (extremely hazardous substances):**

7782-50-5	chlorine
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· **Section 313 (Specific toxic chemical listings):**

7782-50-5	chlorine
7439-96-5	manganese
7440-50-8	copper

· **TSCA (Toxic Substances Control Act):**

57-13-6	urea	ACTIVE
7727-37-9	Slow release nitrogen	ACTIVE
7447-40-7	potassium chloride	ACTIVE
7704-34-9	sulfur	ACTIVE
7439-95-4	Magnesium	ACTIVE
7782-50-5	chlorine	ACTIVE
7439-89-6	iron	ACTIVE
7647-14-5	sodium chloride	ACTIVE
7439-96-5	manganese	ACTIVE
7440-50-8	copper	ACTIVE

· **Hazardous Air Pollutants**

7782-50-5	chlorine
7439-96-5	manganese

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **New Jersey Right-to-Know List:**

7727-37-9	Slow release nitrogen
7704-34-9	sulfur
7439-95-4	Magnesium
7782-50-5	chlorine
7439-96-5	manganese
7440-50-8	copper

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· New Jersey Special Hazardous Substance List:		
7439-96-5	manganese	F3, R1

· Pennsylvania Right-to-Know List:		
7727-37-9	Slow release nitrogen	
7704-34-9	sulfur	
7439-95-4	Magnesium	
7782-50-5	chlorine	
7439-96-5	manganese	
7440-50-8	copper	

· Pennsylvania Special Hazardous Substance List:		
7782-50-5	chlorine	E
7439-96-5	manganese	E
7440-50-8	copper	E

· **Carcinogenic categories**

· EPA (Environmental Protection Agency)		
57-13-6	urea	II
7439-96-5	manganese	D
7440-66-6	zinc powder -zinc dust (stabilized)	II
7440-50-8	copper	D

· **TLV (Threshold Limit Value)**

7782-50-5	chlorine	A4
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· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.		
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· **GHS label elements** Void

· **Hazard pictograms** Void

· **Signal word** Void

· **Hazard statements** Void

· **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.

· **Department issuing SDS:** Environment protection department.

· **Contact:** Access Global EHS Solutions - 888-363-4870 - Team@accessehs.com

· **Date of preparation / last revision** 05/29/2024 / -

· **Abbreviations and acronyms:**

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

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LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Oxidizing Gases 1: Oxidizing gases – Category 1

Acute Toxicity - Inhalation 3: Acute toxicity – Category 3

Skin Irritation 2: Skin corrosion/irritation – Category 2

Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A

Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3

• *** Data compared to the previous version altered.**