

## Safety Data Sheet

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

Printing date 08/12/2024

Reviewed on 08/12/2024

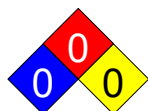
### 1 Identification

- **Product identifier**
- **Trade name:** *Florikan CRF Homogenous NPK*
- **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).

- 
- **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 = 1  
 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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|                                     |                            |         |
|-------------------------------------|----------------------------|---------|
| <b>· Dangerous components:</b>      |                            |         |
| CAS: 7757-79-1<br>RTECS: TT 3700000 | Nitric acid potassium salt | ≥7–≤13% |
| CAS: 6484-52-2                      | Ammonium Nitrate           | 30–60%  |

**· 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.

DERIVED FROM: Polymer Coated Ammonium Nitrate, Polymer Coated Monoammonium Phosphate, Polymer Coated Diammonium Phosphate, and Polymer Coated Potassium Sulfate.

\*All the materials have been polymer coated to provide 19% Slow Release Nitrogen (N), 5.4% Slow Release Available Phosphate (P2O5), and 11.7% Slow Release Soluble Potash (K2O).

### 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:** If skin irritation occurs, consult a doctor.

**· After eye contact:** 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.

**· 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.

|           |                   |                       |
|-----------|-------------------|-----------------------|
| 6484-52-2 | Ammonium Nitrate  | 6.7 mg/m <sup>3</sup> |
|           | potassium nitrate | 9 mg/m <sup>3</sup>   |

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· **PAC-2:**

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

|           |                   |                       |
|-----------|-------------------|-----------------------|
| 6484-52-2 | Ammonium Nitrate  | 73 mg/m <sup>3</sup>  |
|           | potassium nitrate | 100 mg/m <sup>3</sup> |

· **PAC-3:**

PAC 3: Life-threatening health effects.

|           |                   |                       |
|-----------|-------------------|-----------------------|
| 6484-52-2 | Ammonium Nitrate  | 440 mg/m <sup>3</sup> |
|           | potassium nitrate | 600 mg/m <sup>3</sup> |

### \* 7 Handling and storage

· **Handling:**

· **Precautions for safe handling**

Keep out of reach of children.

Do not take internally.

· **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:**

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:** None.

· **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 product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· **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:**

The usual precautionary measures for handling chemicals should be followed.

· **Breathing equipment:** Not required.

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

· **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 can not 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 found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Not required.

· **Limitation and supervision of exposure into the environment**

Keep away from drains, surface and ground waters.

Avoid release into the environment.

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### 9 Physical and chemical properties

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

##### · General Information

##### · Appearance:

**Form:** Granulate

**Color:** Whitish

· **Odor:** Slight

· **Odor threshold:** Not determined.

· **pH-value:** Not applicable.

##### · Change in condition

**Melting point/Melting range:** Undetermined.

**Boiling point/Boiling range:** 210 °C (410 °F)

· **Flash point:** Not applicable.

· **Flammability:** Not determined.

· **Auto igniting:** 400 °C (752 °F)

· **Decomposition temperature:** Not determined.

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

· **Danger of explosion:** Product does not present an explosion hazard.

##### · Explosion limits:

**Lower:** Not determined.

**Upper:** Not determined.

· **Vapor pressure:** Not applicable.

· **Density at 20 °C (68 °F):** 1 g/cm<sup>3</sup> (8.345 lbs/gal)

· **Bulk density:** 1,000 kg/m<sup>3</sup>

· **Relative density:** Not determined.

· **Vapor density:** Not applicable.

· **Evaporation rate:** Not applicable.

##### · Solubility in / Miscibility with

**Water:** Insoluble.

· **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.

No further relevant information available.

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- **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:**

**7757-79-1 Nitric acid potassium salt**

Oral LD50 3,750 mg/kg (rat)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**

The product is not subject to classification according to internally approved calculation methods for preparations:  
 When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

- **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.

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### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
*Smaller quantities can be disposed of with household waste.  
 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.*
- **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):**

*None of the ingredients is listed.*

#### · **Section 313 (Specific toxic chemical listings):**

*All ingredients are listed.*

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

*All components have the value ACTIVE.*

#### · **Hazardous Air Pollutants**

*None of the ingredients is listed.*

#### · **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.*

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|                                                                                             |                  |    |
|---------------------------------------------------------------------------------------------|------------------|----|
| · <b>New Jersey Right-to-Know List:</b>                                                     |                  |    |
| All ingredients are listed.                                                                 |                  |    |
| · <b>New Jersey Special Hazardous Substance List:</b>                                       |                  |    |
| 6484-52-2                                                                                   | Ammonium Nitrate | R3 |
| · <b>Pennsylvania Right-to-Know List:</b>                                                   |                  |    |
| All ingredients are listed.                                                                 |                  |    |
| · <b>Pennsylvania Special Hazardous Substance List:</b>                                     |                  |    |
| 6484-52-2                                                                                   | Ammonium Nitrate | E  |
| · <b>Carcinogenic categories</b>                                                            |                  |    |
| · <b>EPA (Environmental Protection Agency)</b>                                              |                  |    |
| None of the ingredients is listed.                                                          |                  |    |
| · <b>TLV (Threshold Limit Value)</b>                                                        |                  |    |
| None of the ingredients is listed.                                                          |                  |    |
| · <b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b>                   |                  |    |
| None of the ingredients is listed.                                                          |                  |    |
| · <b>GHS label elements</b> Void                                                            |                  |    |
| · <b>Hazard pictograms</b> Void                                                             |                  |    |
| · <b>Signal word</b> Void                                                                   |                  |    |
| · <b>Hazard statements</b> Void                                                             |                  |    |
| · <b>Chemical safety assessment:</b> 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.
- **SDS created by:** Access GHS, LLC - 888-363-4870 - Team@access-ghs-sds.com
- **Date of preparation / last revision** 08/12/2024 / -
- **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
  - 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
- **\* Data compared to the previous version altered.**