### SECTION 1: Identification

#### 1.1. Identification

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product form</td>
<td>Mixtures</td>
</tr>
<tr>
<td>Trade name</td>
<td>CORONA N</td>
</tr>
<tr>
<td>Name</td>
<td>CORONA N</td>
</tr>
<tr>
<td>Generic name</td>
<td>CORONA N</td>
</tr>
<tr>
<td>Product code</td>
<td>SAFO10</td>
</tr>
</tbody>
</table>

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Recommended use:** Fertilizers

#### 1.3. Details of the supplier of the safety data sheet

**Distributor:**
TIMAC Agro USA, INC  
P.O. Box 888 - Route 724 & I-176  
READING, - USA  
T 1-800-545-5474  
info-fds@roullier.com

**Manufacturer:**
TIMAC Agro España S.A.  
Polígono de Arazuri-Orcoyen, calle C, nº32  
ORCOYEN ( NAVARRA), 31160 - España  
T +34 948 324 500 - F +34 948 324 032  
info-fds@timacagro.es - www.timacagro.es

#### 1.4. Emergency telephone number

**Emergency number:** USA POISON CONTROL : 1-800-222-1222

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

**GHS-US classification**
- Oxidising Solids, Category 3: H272
- Serious eye damage/eye irritation, Category 2A: H319
- Reproductive toxicity, Category 1B: H360

*Full text of H statements: see section 16*

#### 2.2. Label elements

**GHS-US labelling**
- Hazard pictograms (GHS-US): ![GHS07](image), ![GHS08](image)
- Signal word (GHS-US): Danger
- Hazard statements (GHS-US):  
  - H319 - Causes serious eye irritation
  - H360 - May damage fertility or the unborn child
- Precautionary statements (GHS-US):  
  - P201 - Obtain special instructions before use
  - P280 - Wear face shield, protective clothing, protective gloves
  - P305+P351+P338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
  - P308+P313: If exposed or concerned: Get medical advice/attention
  - P332+P313: If skin irritation occurs: Get medical advice/attention
  - 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

**Other hazards not contributing to the classification:** None under normal conditions.

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable
SECTION 3: Composition/information on ingredients

3.1. Substances
Not applicable

3.2. Mixtures

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium nitrate / Nitric acid ammonium salt (1:1)</td>
<td>(CAS No) 6484-52-2</td>
<td>30 - 40</td>
<td>Ox. Sol. 3, H272, Eye Irrit. 2A, H319</td>
</tr>
<tr>
<td>potassium nitrate / Nitric acid potassium salt (1:1)</td>
<td>(CAS No) 7757-79-1</td>
<td>15 - 20</td>
<td>Ox. Sol. 3, H272</td>
</tr>
<tr>
<td>disodium tetraborate pentahydrate, borax pentahydrate</td>
<td>(CAS No) 1303-96-4</td>
<td>0.5 - 1</td>
<td>Eye Irrit. 2A, H319, Repr. 1B, H360, STOT SE 3, H335</td>
</tr>
<tr>
<td>EDTA Cu chelate, solid</td>
<td>(CAS No) 14025-15-1</td>
<td>0.6 - 0.7</td>
<td>Acute Tox. 4 (Oral), H302, Eye Irrit. 2A, H319</td>
</tr>
</tbody>
</table>

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 : Get medical advice/attention if you feel unwell. Prompt treatment is essential to minimize damage.

First-aid measures after inhalation : IF INHALED: remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention if ill effect develops.

First-aid measures after skin contact : Wash skin with plenty of water and soap. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an eye specialist if an irritation appears.

First-aid measures after ingestion : If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting without medical advice. If swallowed, seek medical advice immediately and show this container or label.

4.2. Most important symptoms and effects, both acute and delayed

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

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Precautionary measures fire : Keep away from combustible material.

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

Other information : Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources.

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. Keep upwind. Only qualified personnel equipped with suitable protective equipment may intervene.

6.1.2. For emergency responders

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

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

6.2. Environmental precautions

Prevent entry to sewers and public waters.
6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Clean up any spills as soon as possible, using an absorbent material to collect it. Do not absorb in saw-dust or other combustible absorbents. Wash away remainder with plenty of water.

Other information: Remove ignition sources.

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

Additional hazards when processed: Wash hands as often as necessary. Concerning personal protective equipment to use, see item 8.

Precautions for safe handling: Ensure good ventilation of the work station. Avoid contact with skin and eyes.

Hygiene measures: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Remove contaminated clothing and shoes. Do not eat, drink or smoke in areas where product is used.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures: Keep out of reach of children.

Storage conditions: Keep container closed when not in use. Store in dry, cool, well-ventilated area. Keep only in the original container.

Incompatible products: Organic materials. Refer to Section 10 on Incompatible Materials.

Incompatible materials: Refer to section 10 on incompatible materials.

Heat and ignition sources: Keep away from sources of ignition - No smoking.

Prohibitions on mixed storage: Keep away from food, drink and animal feeding stuffs.

Storage area: Store in dry, cool, well-ventilated area. Keep out of frost. Store away from heat/moisture.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>EDTA Cu chelate, solid (14025-15-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not applicable</td>
</tr>
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<table>
<thead>
<tr>
<th>Ammonium nitrate / Nitric acid ammonium salt (1:1) (6484-52-2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
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<tr>
<td>ACGIH</td>
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<td>ACGIH</td>
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<td>OSHA</td>
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<tr>
<td>OSHA</td>
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<td>NIOSH</td>
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<td>NIOSH</td>
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</table>

<table>
<thead>
<tr>
<th>potassium nitrate / Nitric acid potassium salt (1:1) (7757-79-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
</tr>
</tbody>
</table>

| Not applicable |

<table>
<thead>
<tr>
<th>disodium tetraborate pentahydrate, borax pentahydrate (1303-96-4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
</tr>
<tr>
<td>ACGIH</td>
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<tr>
<td>OSHA</td>
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<tr>
<td>OSHA</td>
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<tr>
<td>OSHA</td>
</tr>
<tr>
<td>NIOSH</td>
</tr>
<tr>
<td>NIOSH</td>
</tr>
</tbody>
</table>
8.2. Exposure controls


Hand protection: protective gloves. (according to standard EN 374).
Eye protection: Safety glasses. (according to standard EN 166).
Respiratory protection: Dust formation: dust mask.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Solid
Colour: White
Odour: characteristic
Odour threshold: No data available
pH: No data available
pH solution: 4 - 6 water, 10%
Melting point: No data available
Freezing point: No data available
Boiling point: No data available
Flash point: No data available
Relative evaporation rate (butylacetate=1): No data available
Flammability (solid, gas): No data available
Vapour pressure: No data available
Relative vapour density at 20 °C: No data available
Relative density: No data available
Density: 1.2 kg/l
Solubility: Soluble in 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
Explosive limits: No data available
Explosive properties: No data available.
Oxidising properties: According to tests O.1 and/or O.2 (in compliance with test procedures in the Manual of Tests and Criteria, Part III, section 34.4), the product is non oxidising.

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.
10.4. Conditions to avoid
Heat. Gel.

10.5. Incompatible materials
Reducing agents. Sawdust.

10.6. Hazardous decomposition products
Gaseous ammonia. Nitrogen oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

EDTA Cu chelate, solid (14025-15-1)
ATE US (oral) 500.000 mg/kg bodyweight

Ammonium nitrate / Nitric acid ammonium salt (1:1) (6484-52-2)
LD50 oral rat 2950 mg/kg (OECD 401 method)
LD50 dermal rat > 5000 mg/kg OECD 402
LC50 inhalation rat (mg/l) > 88.8 mg/m³

Potassium nitrate / Nitric acid potassium salt (1:1) (7757-79-1)
LD50 oral rat > 2000 mg/kg (OECD 425 method)
LD50 dermal rat > 5000 mg/kg bodyweight (OECD 402 method)
LC50 inhalation rat (mg/l) air 4H > 527 mg/m³ (OECD 403 method)

Disodium tetraborate pentahydrate, borax pentahydrate (1303-96-4)
LD50 oral rat 3200 - 3400 mg/kg bodyweight EPA (Environmental Protection Agency)
LD50 dermal rabbit > 2000 mg/kg bodyweight EPA (Environmental Protection Agency)
LC50 inhalation rat (mg/l) > 2 mg/l (OECD 403 method)
ATE US (oral) 3200.000 mg/kg bodyweight
Additional information Safety Data Sheet Supplier

Skin corrosion/irritation : 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)

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : 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)

Potassium nitrate / Nitric acid potassium salt (1:1) (7757-79-1)
NOAEL (chronic, oral, animal/male, 2 years) > 1500 mg/kg bodyweight
Reproductive toxicity: May damage fertility or the unborn child. 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.

Specific target organ toxicity (single exposure): Not classified (Based on available data, the classification criteria are not met)

Ammonium nitrate / Nitric acid ammonium salt (1:1) (6484-52-2)
NOAEL (subacute, oral, animal/male, 28 days) OECD 422 > 1500 mg/kg bodyweight rat
Additional information Safety Data Sheet Supplier

Potassium nitrate / Nitric acid potassium salt (1:1) (7757-79-1)
NOAEL (subacute, oral, animal/male, 28 days) > 1500 mg/kg bodyweight OECD 422

SECTION 12: Ecological information

12.1. Toxicity
Ecology - general: 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.

Ammonium nitrate / Nitric acid ammonium salt (1:1) (6484-52-2)
LC50 fish 1 48h 447 mg/l Cyprinus carpio
EC50 other aquatic organisms 1 mg/l
ErC50 (algae) 10d > 1700 mg/l

Potassium nitrate / Nitric acid potassium salt (1:1) (7757-79-1)
LC50 fish 1 96h OCDE 203  > 98.9 mg/l Oncorhynchus mykiss (Rainbow trout)
LC50 other aquatic organisms 1 490 mg/l (Daphnia magna, 48h)
EC50 Daphnia 1 48H 490 mg/l Daphnia magna ( NF EN ISO 6341)
EC50 other aquatic organisms 1 10d > 1700 mg/l algae
LC50 fish 2 96H 2400 - 4200 mg/l Lepomis macrochirus
EC50 Daphnia 2 72h 226 mg/l

Diisodium tetraborate pentahydrate, borax pentahydrate (1303-96-4)
LC50 fish 1 96h - 74 mg/l Dab, Limanda limanda
EC50 Daphnia 1 24h - 242 mg/l Daphnids, Daphnia magna Straus
NOEC (chronic) 11.2 mg/l EPA OPPTS 850.1400 (Fish Early-life Stage Toxicity Test)
Additional ecotoxicological information LC50: 88 mg/l (24 days)

12.2. Persistence and degradability

DISPERSION
Persistence and degradability: Product is biodegradable.

Potassium nitrate / Nitric acid potassium salt (1:1) (7757-79-1)
Persistence and degradability: Degradable in water in anaerobic conditions.
### 12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th></th>
<th>Bioaccumulative potential</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CORONA N</strong></td>
<td>Not established.</td>
</tr>
<tr>
<td>Ammonium nitrate / Nitric acid ammonium salt (1:1) (6484-52-2)</td>
<td>Low bioaccumulation potential.</td>
</tr>
<tr>
<td>potassium nitrate / Nitric acid potassium salt (1:1) (7757-79-1)</td>
<td>Low bioaccumulation potential. Data sources: Safety Data Sheet Supplier.</td>
</tr>
</tbody>
</table>

### 12.4. Mobility in soil

<table>
<thead>
<tr>
<th></th>
<th>Ecology - soil</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CORONA N</strong></td>
<td>No data available.</td>
</tr>
<tr>
<td>Ammonium nitrate / Nitric acid ammonium salt (1:1) (6484-52-2)</td>
<td>Small adsorption.</td>
</tr>
<tr>
<td>potassium nitrate / Nitric acid potassium salt (1:1) (7757-79-1)</td>
<td>Soluble in water. Safety Data Sheet Supplier.</td>
</tr>
</tbody>
</table>

### 12.5. Other adverse effects

Other adverse effects: Nitrites are responsible for the proliferation of algae in water, thus limiting or suppressing the development of other aquatic species (eutrophisation).

Effect on the global warming: No known effects from this product.

GWPmix comment: No known effects from this product.

Other information: Do not flush into surface water or sewer system.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste treatment methods: Dispose of in accordance with relevant local regulations. Dispose of this material and its container to hazardous or special waste collection point.

Sewage disposal recommendations: If spilled: see chapter 6.

### SECTION 14: Transport information

- **Department of Transportation (DOT)**
  - In accordance with DOT
  - Not applicable

- **Transportation of Dangerous Goods**
  - Not applicable

- **Transport by sea**
  - Not applicable

- **Air transport**
  - Not applicable

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

- **EDTA Cu chelate, solid (14025-15-1)**
  - Listed on the United States TSCA (Toxic Substances Control Act) inventory

- **Ammonium nitrate / Nitric acid ammonium salt (1:1) (6484-52-2)**
  - Listed on the United States TSCA (Toxic Substances Control Act) inventory

- **potassium nitrate / Nitric acid potassium salt (1:1) (7757-79-1)**
  - Listed on the United States TSCA (Toxic Substances Control Act) inventory

- **disodium tetraborate pentahydrate, borax pentahydrate (1303-96-4)**
  - Listed on the United States TSCA (Toxic Substances Control Act) inventory
15.2. International regulations

CANADA
No additional information available

<table>
<thead>
<tr>
<th>Compound</th>
<th>WHMIS Classification</th>
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</thead>
<tbody>
<tr>
<td>Ammonium nitrate / Nitric acid ammonium salt (1:1) (6484-52-2)</td>
<td>Class C - Oxidizing Material</td>
</tr>
<tr>
<td>Potassium nitrate / Nitric acid potassium salt (1:1) (7757-79-1)</td>
<td>Class C - Oxidizing Material</td>
</tr>
<tr>
<td>Disodium tetraborate pentahydrate, borax pentahydrate (1303-96-4)</td>
<td>Class D Division 2 Subdivision B - Toxic material causing other toxic effects</td>
</tr>
</tbody>
</table>

EU-Regulations
No additional information available

National regulations
CORONA N
Ensure all national/local regulations are observed

15.3. US State regulations
No additional information available

SECTION 16: Other information

Full text of H-statements:

<table>
<thead>
<tr>
<th>H-Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H272</td>
<td>May intensify fire; oxidiser</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation</td>
</tr>
<tr>
<td>H360</td>
<td>May damage fertility or the unborn child</td>
</tr>
</tbody>
</table>

NFPA health hazard : 1 - Materials that, under emergency conditions, can cause significant irritation.

NFPA fire hazard : 1 - Materials that must be preheated before ignition can occur.

NFPA reactivity : 1 - Materials that in themselves are normally stable but can become unstable at elevated temperatures and pressures.

HMIS III Rating
Health : 1 Slight Hazard - Irritation or minor reversible injury possible
Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)
Physical : 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.

SDS US (GHS HazCom 2012)

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 therefore be construed as guaranteeing any specific property of the product.