

SECTION 1: Identification

1.1. Identification

Product form : Mixtures
Trade name : CORONA N
Name : CORONA N
Generic name : CORONA N
Product code : SAFO10

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, H272
Category 3
Serious eye H319
damage/eye irritation,
Category 2A
Reproductive toxicity, H360
Category 1B

Full text of H statements : see section 16

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US) :



GHS07



GHS08

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

CORONA N

Safety Data Sheet

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

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

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

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.

CORONA N

Safety Data Sheet

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

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

EDTA Cu chelate, solid (14025-15-1)

Not applicable

Ammonium nitrate / Nitric acid ammonium salt (1:1) (6484-52-2)

ACGIH	ACGIH TWA (ppm)	25 ppm Ammonia
ACGIH	ACGIH STEL (ppm)	35 ppm Ammonia
ACGIH	ACGIH Ceiling (ppm)	25 ppm Ammonia
OSHA	OSHA PEL (TWA) (ppm)	25 ppm Ammonia
OSHA	OSHA PEL (STEL) (ppm)	35 ppm Ammonia
OSHA	OSHA PEL (Ceiling) (ppm)	25 ppm Ammonia
NIOSH	NIOSH REL (TWA) (ppm)	25 ppm Ammonia
NIOSH	NIOSH REL (STEL) (ppm)	35 ppm Ammonia
NIOSH	NIOSH REL (ceiling) (ppm)	25 ppm Ammonia

potassium nitrate / Nitric acid potassium salt (1:1) (7757-79-1)

ACGIH	ACGIH TWA (mg/m³)	15 mg/m³
Not applicable		

disodium tetraborate pentahydrate, borax pentahydrate (1303-96-4)

ACGIH	ACGIH TWA (mg/m³)	8H 2 mg/m³
ACGIH	ACGIH STEL (mg/m³)	15Min 6 mg/m³
OSHA	OSHA PEL (TWA) (mg/m³)	10 mg/m³
OSHA	OSHA PEL (STEL) (mg/m³)	10 mg/m³
OSHA	OSHA PEL (Ceiling) (mg/m³)	10
NIOSH	NIOSH REL (TWA) (mg/m³)	10 mg/m³
NIOSH	NIOSH REL (STEL) (mg/m³)	10 mg/m³

CORONA N

Safety Data Sheet

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

disodium tetraborate pentahydrate, borax pentahydrate (1303-96-4)		
NIOSH	NIOSH REL (ceiling) (mg/m³)	10 mg/m³

8.2. Exposure controls

Personal protective equipment : Safety glasses. Gloves. Dust formation: dust mask.



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.

CORONA N

Safety Data Sheet

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

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)

CORONA N	
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

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/m ³

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/m ³ (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)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

CORONA N

Safety Data Sheet

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

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)

CORONA N	
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

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

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

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)
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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.
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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

disodium 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

CORONA N	
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.

CORONA N

Safety Data Sheet

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

12.3. Bioaccumulative potential

CORONA N	
Bioaccumulative potential	Not established.
Ammonium nitrate / Nitric acid ammonium salt (1:1) (6484-52-2)	
Bioaccumulative potential	Low bioaccumulation potential.
potassium nitrate / Nitric acid potassium salt (1:1) (7757-79-1)	
Bioaccumulative potential	Low bioaccumulation potential. Data sources : Safety Data Sheet Supplier.

12.4. Mobility in soil

CORONA N	
Ecology - soil	No data available.
Ammonium nitrate / Nitric acid ammonium salt (1:1) (6484-52-2)	
Ecology - soil	Small adsorption.
potassium nitrate / Nitric acid potassium salt (1:1) (7757-79-1)	
Ecology - soil	Soluble in water. Safety Data Sheet Supplier.

12.5. Other adverse effects

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

CORONA N

Safety Data Sheet

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

15.2. International regulations

CANADA

No additional information available

Ammonium nitrate / Nitric acid ammonium salt (1:1) (6484-52-2)

WHMIS Classification	Class C - Oxidizing Material
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potassium nitrate / Nitric acid potassium salt (1:1) (7757-79-1)

WHMIS Classification	Class C - Oxidizing Material
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disodium tetraborate pentahydrate, borax pentahydrate (1303-96-4)

WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects
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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:

H272	May intensify fire; oxidiser
H302	Harmful if swallowed
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H360	May damage fertility or the unborn child

NFPA health hazard

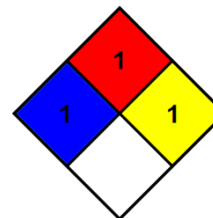
: 1 - Materials that, under emergency conditions, can cause significant irritation.

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 not therefore be construed as guaranteeing any specific property of the product