



MATERIAL SAFETY DATA SHEET

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Revised edition no : 1

Date : 11 / 2 / 2015

Supersedes : 0 / 0 / 0

NPK-GRANULATED FERTILISER CLASS C (NON-SSD)

GRA-002.

SECTION 1 Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Identification of the product : NPK-GRANULATED FERTILISER CLASS C
(NON-SSD) (N<=24.5%)

Type of product : Fertilizer.

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

Use : Agriculture.
Industrial.

1.3. Details of the supplier of the safety data sheet

Company identification : ROSIER SA
Route de Grandmetz 11a
B-7911 Moustier Belgique-Belgie
Tel: +32 (0)69 87 15 10
www.rosier.eu
E-mail : reach@rosier.eu

1.4. Emergency telephone number

Emergency phone nr : +32 (0)70 245 245

SECTION 2 Hazards identification

2.1. Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45

Classification : Not classified.

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Not classified.

2.2. Label elements

Labelling Regulation EC 1272/2008 (CLP)

- Hazard pictograms : None.
- Hazard pictograms : None.
- Signal words : None.
- Hazard statements : None.
- Precautionary statements : None.

2.3. Other hazards

Other hazards : According to Annex XIII of Regulation (EC) No 1907/2006, no PBT and vPvB assessment has been conducted since this product is inorganic.

SECTION 3 Composition/information on ingredients

3.1. / 3.2 Substance / Preparation

Substance / Preparation : Preparation.

Components : This product is not hazardous but contains hazardous components.

Composition : Mixtures contain ammonium nitrate and some or all of the following ingredients : phosphates, potassium salts, inert fillers (such as limestone), coating materials, secondary nutrients and micronutrients.
Mixtures containing less than 80% ammonium nitrate are not classified Irritating to eyes (Fertilizers Europe study july 2011).

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SECTION 3 Composition/information on ingredients (continued)

Nitrogen (and magnesium if present in the product) neutralizes free acidity of superphosphate (calcium phosphates), the finished product is then not classified Irritating to eyes (Fertilizers Europe study dec. 2014).

The presence of magnesium and micronutrients (B, Cu, Fe, Mn, Zn) is indicated on the product label, the accompanying document and on the invoice.

Substance name	Contents	CAS No	EC No	Annex No	REACH	Classification
Ammonium nitrate	: Between 1 and 70 %	6484-52-2	229-347-8	----	01-2119490981-27-XXXX	O; R8 Xi; R36 ----- Ox. Liq. 3;H272 Eye Irrit. 2;H319
Potassium chloride	: Between 1 and 60 %	7447-40-7	231-211-8	----	EXEMPTED	Not classified. (DSD/DPD) ----- Not classified. (GHS)
Ammonium dihydrogenorthophosphate (MAP)	: Between 1 and 40 %	7722-76-1	231-764-5	----	01-2119488166-29-0025;0049	Not classified. (DSD/DPD) ----- Not classified. (GHS)
Calcium sulfate	: Between 1 and 35 %	7778-18-9	231-900-3	----	01-2119444918-26-0097;0169	Not classified. (DSD/DPD) ----- Not classified. (GHS)
Diammonium hydrogenorthophosphate (DAP)	: Between 1 and 35 %	7783-28-0	231-987-8	----	01-2119490974-22-XXXX;0046	Not classified. (DSD/DPD) ----- Not classified. (GHS)
Ammonium sulphate	: Between 1 and 30 %	7783-20-2	231-984-1	----	01-2119455044-46-0064;0101	Not classified. (DSD/DPD) ----- Not classified. (GHS)
Potassium nitrate	: Between 1 and 30 %	7757-79-1	231-818-8	----	01-2119488224-35-0018;0026	O; R8 ----- Ox. Sol. 3;H272
Ammonium chloride	: Between 1 and 20 %	12125-02-9	235-186-4	017-014-00-8	01-2119489385-24-0018;0022	Xn; R22 Xi; R36 ----- Acute Tox. 4 (Oral);H302 Eye Irrit. 2;H319
Calcium bis(dihydrogen-orthophosphate)	: Between 1 and 20 %	7758-23-8	231-837-1	----	01-2119490065-39-0003;0010	Xi; R41 ----- Eye Dam. 1;H318
Magnesium oxide	: Between 0.01 and 7 %	1309-48-4	215-171-9	----	EXEMPTED	Not classified. (DSD/DPD) ----- Not classified. (GHS)
Calcium hydrogenorthophosphate	: Between 1 and 5 %	7757-93-9	231-826-1	----	01-2119490064-41-0015;0020	Xi; R41 ----- Eye Dam. 1;H318
Potassium dihydrogenorthophosphate (MKP)	: Between 1 and 5 %	7778-77-0	231-913-4	----	01-2119490224-41-0016;0027	Not classified. (DSD/DPD) ----- Not classified. (GHS)
Disodium tetraborate pentahydrate	: Between 0.01 and 5 %	12179-04-3	215-540-4	005-011-02-9	----	Repr. Cat. 2; R60 Repr. Cat. 2; R61 ----- Repr. 1B;H360F Repr. 1B;H360D
Iron sulfate	: Between 0.01 and 2 %	7782-63-0	231-753-5	----	----	Xn; R22 Xi; R36/38 ----- Acute Tox. 4 (Oral);H302 Eye Irrit. 2;H319 Skin Irrit. 2;H315
Manganese sulfate	: Between 0.01 and 1 %	10034-96-5	232-089-9	025-003-00-4	----	Xn; R48/20/22 Xi; R41 N; R51-53 ----- Eye Dam. 1;H318 STOT RE 2;H373 Aquatic Chronic 2;H411
Zinc sulfate	: Between 0.01 and 1 %	7446-19-7	231-793-3	030-006-00-9	----	Xn; R22 Xi; R41 N; R50-53 ----- Eye Dam. 1;H318 Acute Tox. 4 (Oral);H302 Aquatic Acute 1;H400 Aquatic Chronic 1;H410
Copper sulphate	: Between 0.01 and 0.05 %	7758-99-8	231-847-6	029-004-00-0	----	Xn; R22 Xi; R36/38 N; R50-53 ----- Acute Tox. 4 (Oral);H302 Eye Irrit. 2;H319 Skin Irrit. 2;H315 Aquatic Acute 1;H400

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SECTION 3 Composition/information on ingredients (continued)

Aquatic Chronic 1;H410

SECTION 4 First aid measures

4.1. Description of first aid measures

First aid measures

- Inhalation : Assure fresh air breathing.
- Skin contact : Wash skin with mild soap and water.
Remove contaminated clothing and shoes.
- Eye contact : In case of dust contact with eyes, rinse immediately with plenty of water.
Seek medical attention if ill effect or irritation develops.
- Ingestion : Do not induce vomiting.
Rinse mouth.
Give water to drink if victim completely conscious/alert.
Seek medical attention if ill effect develops.

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

- Inhalation : No significant signs or symptoms indicative of any adverse health hazard are expected to occur as a result of inhalation exposure.
- Skin contact : Not expected to present a significant skin hazard under anticipated conditions of normal use.
- Eye contact : Dust from this product may cause eye irritation.
- Ingestion : Health hazard if ingested in large quantities (gastro-intestinal disorders). In extreme cases, formation of methaemoglobin - "Blue baby syndrome" - and cyanosis may occur.

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

- : Thermal decomposition generates toxic vapours.

SECTION 5 Firefighting measures

5.1. Extinguishing media

Extinguishing media

- Suitable extinguishing media : Large quantity of water.
- Unsuitable extinguishing media : CO₂. Foam.
Sand

5.2. Special hazards arising from the substance or mixture

- Specific hazards : Thermal decomposition generates toxic vapours.
Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

5.3. Advice for firefighters

- Flammable class : The product is not flammable. May accelerate the burning of other combustible materials.
- Protection against fire : Do not enter fire area without proper protective equipment, including respiratory protection.
- Special procedures : Exercise caution when fighting any chemical fire.
Prevent entry to sewers and public waters.
Notify authorities if product enters sewers or public waters.

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SECTION 5 Firefighting measures (continued)

Surrounding fires : Use water spray or fog for cooling exposed containers.

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection.

6.2. Environmental precautions

Environmental precautions : Prevent entry to sewers and public waters.
Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Clean up methods : Collect spills and put it into appropriated container.
Use appropriate container to avoid product contamination. Do not allow to mix with sawdust and other combustible or organic substances.
(See materials to avoid section 10)

6.4. Reference to other sections

Reference to other sections : See Headings 7, 8, 13.

SECTION 7 Handling and storage

7.1. Precautions for safe handling

Personal protection : Avoid all unnecessary exposure. Ensure prompt removal from eyes, skin and clothing.

Handling : Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.
Keep away from food, drink and animal feeding stuffs.

Technical protective measures : Both local exhaust and general room ventilation are usually required.

General : Handle in accordance with good industrial hygiene and safety procedures.
Minimize generation of dust.

7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep only in the original container in a cool, well ventilated place. Store away from heat/moisture.
Avoid (See section 10) :
Organic materials, reducing agents, acids, alkalis, oxidizing agents, chlorides, nitrites, metallic powders and substances containing metals such as copper, nickel, cobalt, zinc and their alloys.

7.3. Specific end use(s)

: See Headings 1.1, 1.2.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits : Manganese sulfate : TLV[©] -TWA [mg/m³] : 0.2 (Mn)
Manganese sulfate : HTP-värden - 8 H - [mg/m³] : 5
General non-hazardous dust exposure limit TLV-TWA: 10 mg/m³ (inhalable particles).

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SECTION 8 Exposure controls/personal protection (continued)

8.2. Exposure controls

Personal protection

- Respiratory protection : No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation. Where excessive dust may result, wear approved mask.
- Hand protection : In case of repeated or prolonged contact wear gloves.
- Skin protection : If repeated skin contact or contamination of clothing is likely, protective clothing should be worn.
Dermal Protection : Protective clothing (long sleeved overall) and chemically resistant gloves (Nitrile rubber, chloroprene rubber, butyl rubber or other suitable gloves, complying with the requirements of EN 374 (breakthrough time: 480 min)).
- Eye protection : Where excessive dust may result, wear goggles.
- Ingestion : When using, do not eat, drink or smoke.
- Industrial hygiene : Provide local exhaust or general room ventilation.

SECTION 9 Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state at 20 °C : Pellet.
- Odour : Light.
- Odour threshold : No data available.
- pH value : (10%) > 4.5
- Melting point [°C] : Decomposes below melting point.
- Boiling point [°C] : Decomposition before boiling.
- Flash point [°C] : Not applicable (solid).
- Evaporation rate : Not applicable (solid).
- Flammability : Not applicable (non-flammable solid).
- Explosion limits (lower - upper) : Not classified as explosive according to EC criteria.
- Vapour pressure : Not applicable (not volatile).
- Vapour density : Not applicable (not volatile).
- Density : 0.90-1.30
- Solubility in water : Good.
- Partition coefficient : n-octanol / water : Not applicable (inorganic solid).
- Auto-ignition temperature : Not applicable (non-flammable solid).
- Thermal decomposition : > 130°C (depending on composition).
- Viscosity : Not applicable (solid).
- Explosive Properties : Not classified as explosive according to EC criteria.

9.2. Other information

- Other information : Non oxidizing material according to EC criteria.

SECTION 10 Stability and reactivity

10.1. Reactivity

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SECTION 10 Stability and reactivity (continued)

: See 10.2.

10.2. Chemical stability

Stability and reactivity : Product is stable under normal conditions of storage, handling and use.

10.3. Possibility of hazardous reactions

Hazardous reactions : None under normal conditions.

10.4. Conditions to avoid

Conditions to avoid : Heat.
Open flame.
Prevent contamination by irrelevant materials.

10.5. Incompatible materials

Materials to avoid : Organic materials, reducing agents, acids, alkalis, oxidizing agents, chlorides, nitrites, metallic powders and substances containing metals such as copper, nickel, cobalt, zinc and their alloys.

10.6. Hazardous decomposition products

Hazardous decomposition products : Thermal decomposition generates : Ammonia. Nitrogen oxides.

SECTION 11 Toxicological information

11.1. Information on toxicological effects

Rat oral LD50 [mg/kg] : No data available.

SECTION 12 Ecological information

12.1. Toxicity

Ecological effects information : Low toxicity to aquatic life.

LC50-96 Hour - fish [mg/l] : No data available.

12.2. Persistence and degradability

: No data available.

12.3. Bioaccumulative potential

: The product does not show any bio-accumulation phenomena.

12.4. Mobility in soil

: No data available.

12.5. Results of PBT and vPvB assessment

: According to Annex XIII of Regulation (EC) No 1907/2006, no PBT and vPvB assessment has been conducted since this product is inorganic.

12.6. Other adverse effects

Environmental precautions : Prevent entry to sewers and public waters.
Attention : As this fertilizer contains nitrate and phosphate, heavy spillage may cause adverse environmental impact such as eutrophication in confined surface waters or nitrate contamination of ground or surface water.

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SECTION 13 Disposal considerations

13.1. Waste treatment methods

General : Avoid release to the environment.
Dispose in a safe manner in accordance with local/national regulations.

SECTION 14 Transport information

14.1. UN number

General information : Not regulated.

14.2. UN proper shipping name

: Not regulated.

14.3. Transport hazard class(es)

Land transport : Not regulated.

Sea transport : Not regulated.

Air transport : Not regulated.

14.4. Packing group

: Not regulated.

14.5. Environmental hazards

: None.

14.6. Special precautions for user

: None.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: Not applicable.

SECTION 15 Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

: Ensure all national/local regulations are observed.
Germany : Gefahrstoffverordnung Anhang III/6 und TRGS 511 beachten

15.2. Chemical safety assessment

: No data available.

SECTION 16 Other information

Further information : None.

The contents and format of this SDS are in accordance with Regulation (EU) 453/2010 (REACH Annex II).

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