

SAFETY DATA SHEET

EKOTE COATED NPK+TE

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

1.1 Product identifier

Identification of the substance or preparation

MSDS Ref. No.: N-005 (EN)

Product name: Ekote Coated NPK+TE:

See label of products for SDS number

Fertilizer type: Fertilizer (AN-Urea based)

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

Identified use: Granulated fertilizer for horticulture and

agriculture

Uses advised against: None identified

1.3 details of the supplier of the safety data sheet (SDS)

Company identification Ekompany International B.V.

Verloren van Themaatweg 2A

6121 RG Born The Netherlands T: +31 46 727 10 00

E-mail address of the responsible for this SDS: contact@ekompany.eu

1.4 Emergency telephone number

Emergency telephone number: + 31 6 101 40 351 (only intended to inform

professionals in acute poisonings)

2. Hazards identification

2.1 Classification of the substance or preparation

Product definition Preparation

Classification according to regulation EC nr 67/548 (DSD) or EC 1999/45

Classification Not classified
Classification according to regulation EC nr 1272/2008 (CLP/GHS)

Classification Not classified

Classification Not classified

See section 11 for more information on health effects and symptoms.

See section 16 for the full text of the R phrases or H statements declared above.

2.2 Label elements

Hazard pictograms:NoneSignal words:NoneHazard statements:None

Precautionary statements

-Supplemental label elements Safety Data Sheet available for professional user on request.

-EU regulation EC1907/2006 (REACH) Annex XVII (restrictions on manufacture, placing on the market and use of certain



dangerous substances, mixtures and articles)

Special packaging requirements

-Containers to be fitted with child resistant fastenings: Not applicable -Tactile warning of danger: Not applicable

2.3 Other hazards

Substance meets criteria for PBT according to regulation EC nr 1907/2006, Annex XIII:

Not applicable

None

Substance meets the criteria for vPvB according to regulation EC nr 1907/2006, Annex XIII:

Not applicable

Other hazards which do not result in classification: Product forms slippery surface

when combined with water

3. Composition/information on ingredients

Substance/preparat						
Substance name	Contents	CAS-	EC-	Annex-	Preparation REACH	Classification
		no.	no.	no.		
Ammonium nitrate [1]	Between 1	6484-	229-		01-2119490981-27-	O; R8 Xi; R36
	and 70 %	52-2	347-8		XXXX	Ox. Liq. 3;H272 Eye Irrit. 2;H319
Urea	Between 1-	57-13-	200-		01-2119463277-33	Not classified. (DSD/DPD)
	60%	6	315-5			Not classified. (GHS)
Potassium sulfate	Between 1	7778-	231-		01-2119489441-34-	Not classified. (DSD/DPD)
	and 60 %	80-5	915-5		0015; 0058	Not classified. (GHS)
Monoammonium-	Between 1	7722-	231-		01-2119488166-29-	Not classified. (DSD/DPD)
Phosphate (MAP)	and 40 %	76-1	764-5		0025; 0049	Not classified. (GHS)
Calcium sulfate	Between 1	7778-	231-		01-2119444918-26-	Not classified. (DSD/DPD)
	and 35 %	18-9	900-3		0097; 0169	Not classified. (GHS)
Diammonium phosphate	Between 1	7783-	1-987-		01-2119490974-22-	Not classified. (DSD/DPD)
(DAP)	and 35 %	28-0 23	8		XXXX; 0046	Not classified. (GHS)
Ammonium sulphate	Between 1	7783-	231-		01-2119455044-46-	Not classified. (DSD/DPD)
	and 30 %	20-2	984-1		0064; 0101	Not classified. (GHS)
Potassium nitrate [1]	Between 1	7757-	231-		01-2119488224-35-	O; R8
	and 30 %	79-1	818-8		0018; 0026	Ox. Sol. 3;H272
Calcium bis (dihydrogen	Between 1	7758-	231-		01-2119490065-39-	Xi; R41
orthophosphate)	and 20 %	23-8	837-1		0003; 0010	Eye Dam. 1;H318
Magnesium oxide	Between	1309-	215-		EXEMPTED	Not classified. (DSD/DPD)
	0,01 and 7 %	48-4	171-9			Not classified. (GHS)
Magnesium sulfate (*)	Between	7487-	231-		EXEMPTED	Not classified. (DSD/DPD)
	0.1 and 25%	88-9	298-2			Not classified. (GHS)
Calcium	Between 1	7757-	231-		01-2119490064-41-	Xi; R41
hydrogenorthophosphate	and 5 %	93-9	826-1		0015; 0020	Eye Dam. 1;H318
Monopotassium	Between 1	7778-	231-		01-2119490224-41-	Not classified. (DSD/DPD)
phosphate (MKP)	and 5 %	77-0	913-4		0016;0027	Not classified. (GHS)
Disodium tetraborate pentahydrate	Between 0,01 and 5	12179- 04-3	215- 540-4	005- 011-02-	01-2119490790-32- XXXX	Repr. Cat. 2; R60 Repr. Cat. 2; R61
	%			9		Repr. 1B;H360F Repr. 1B;H360D
Iron sulphate	Between	7782-	231-		01-2119513203-57-	Xn; R22 Xi; R36/38
	0,01 and 2 %	63-0	753-5		XXXX	Acute Tox. 4 (Oral); H302 Eye Irrit. 2;H319 Skin Irrit.
						2;H315
Manganese sulphate	Between 0,01 and 1	10034- 96-5	232- 089-9		025-003-00-4 01- 2119456624-35-	Xn; R48/20/22 Xi; R41 N; R51-53
	%				XXXX	Eye Dam. 1;H318 STOT RE
						2;H373 Aquatic Chronic 2:H411
Zinc sulphate	Between	7446-	231-		030-006-00-9 01-	Xn; R22 Xi; R41 N; R50-53
	0,01 and	19-7	793-3		2119474684-27-	Eye Dam. 1;H318 Acute
	0,25 %				XXXX	Tox. 4 (Oral);H302 Aquatic



						Acute 1;H400 Aquatic Chronic 1;H410
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Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

Components: Within the present knowledge of the supplier, this product is not

> hazardous but contains hazardous components in quantities requiring reporting in this section, in accordance with EU

regulations or national regulations.

Composition: Mixture containing above mentioned component(s) plus a

polymer which is exempt from REACH classification Regulation

no. EC1907/2006 as coating component.

Mixtures containing less than 80% ammonium nitrate are not classified Irritating to eyes (Fertilizers Europe study July 2011). Nitrogen (and magnesium if present in the product) neutralizes free acidity of superphosphates (calcium phosphates), the

fertilizer is then not classified Irritating to eyes (Fertilizers Europe

study Dec. 2014).

The presence of magnesium and micronutrients is indicated on

the product label.

4. First-aid measures

4.1 Description of first aid measures

Inhalation: Avoid breathing dust. If inhaled, remove to fresh air.

Skin contact: Avoid prolonged or repeated contact with skin. After handling,

always wash hands thoroughly with soap and water. Get medical attention if irritation develops. Remove contaminated clothing.

Eye contact: In case of contact with eyes, rinse immediately with a copious

amount of water. Get medical attention if irritation develops.

If large quantities of this material are swallowed, call a physician Ingestion:

> immediately. DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Rinse mouth. Give water to drink if victim is

completely conscious/alert.

Low hazard for usual industrial or commercial handling. Protection of first-aiders:

4.2 Most important symptoms and effects, both acute and delayed

Inhalation: Exposure to decomposition products may cause a health hazard.

Serious effects may be delayed following exposure.

No significant effects or critical hazards. Skin contact:

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

Note to physician: In case of inhalation of toxic decomposition products in a fire,

symptoms may be delayed. The exposed person may need to be

kept under medical surveillance for 48 hours.

Specific treatments: No specific treatment.



5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Use water in flooding quantities.

Unsuitable extinguishing CO2, foam, sand.

media:

5.2 Special hazards arising from the substance or mixture

Specific hazards: Decomposition products may include the following materials:

Carbon dioxide, carbon monoxide, nitrogen oxides, ammonia. Avoid breathing dusts, vapors or fumes from burning materials. In case of inhalation of decomposition products in a fire, symptoms

may be delayed.

The product is not flammable, but may accelerate the burning of

other combustible materials.

5.3 Advice for firefighters

Special precautions for firefighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for firefighters

Firefighters should wear appropriate protective equipment and self contained breathing apparatus (SCBA) with a full face piece operated in positive pressure mode. Clothing for firefighters (including helmets, protective boots and gloves) conforming European Standard EN469 will provide a basic level of protection for chemical incidents.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions: Use suitable protective equipment (section 8). Follow all fire-

fighting procedures (section 5).

6.2 Environmental precautions

Environmental precautions Minimize contact of spilled material with soils to prevent runoff to surface waterways.

6.3 Methods and materials for containment and cleaning up

Clean-up methods: Use a tool to scoop up solid or absorbed material and place into

appropriate labeled waste container. Absorb with dry sand or other noncombustible material. Avoid creating dusty conditions and prevent wind dispersal. Keep out of waterways. See section

13 for waste disposal information.

6.4 Reference to other sections

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

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 stuff.

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 incompatibilities

Storage: Store and use away from heat, sparks, open flame, or any other

ignition source. Avoid contact with combustible materials. On

farm keep away from hay, grain, diesel etc.

7.3 Specific andd use(s)

End use: See section 1.2

8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits: Total inhalable dust (TLV-TWA): 10 mg/m³

Respirable dust: 4 mg/m³

Manganese sulfate (TLV-TWA) mg/m³: 0.2 Mn

8.2 Exposure controls

Personal protection

-Respiratory protection: Use a properly fitted, particulate filter respirator complying with

an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the

safe working limits of the selected respirator.

-Hand protection: Chemical-resistant, impervious gloves or gauntlets complying

with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is

necessary.

-Eye protection: Use dust goggles if high dust concentration is generated.

-Skin protection: Personal protective equipment for the body should be selected

based on the task being performed and the risks involved.

-Ingestion: When using, do not eat, drink or smoke.

Industrial hygiene Provide local exhaust or general room ventilation

Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: Solid, granules

Colour: Light brownish granules, inside grey

Odour: Light

Odour threshold: Not determined

pH: 10 (Conc. (% w / w) > 4.5)



Melting/Freezing point: Decomposes below melting point for non urea part, 133°C to

253°C (271.4 to 487.4°F), concerning the urea inside the coating

Boiling point: Decomposes below boiling point

Flash point: Not applicable (solid)
Evaporation rate: Not determined (solid)

Flammability: Not determined (non flammable solid)

Explosion limits (upper-lower): Not classified as explosive according to EC criteria

Vapour pressure: not applicable (not volatile)

Density (g/cm³): loose bulk density 0.9 to 1.3 g/cm³

Solubility in water: Good.

Partition coefficient: n-octanol / water: Not applicable (inorganic solid)

Auto-ignition temperature: Not applicable (non flammable solid)

Thermal decomposition: Decomposition > 130 °C depending on composition

Viscosity: Not applicable (solid)

Explosive properties: None **Oxidizing properties:** None

9.2 Other information

Other information: No additional information

10. Stability and reactivity

10.1 Reactivity

Reactivity: See 10.2

10.2 Chemical stability

Stability and reactivity: Stable under recommended storage and handling conditions (see

section 7).

10.3 Possibility of hazardous reactions

Hazardous reactions: Under normal conditions none.

10.4 Conditions to avoid

Conditions to avoid: Heat, open flame, prevent contamination with irrelevant materials

10.5 Incompatible materials

Materials to avoid: Organic materials, reducing agents, acids, alkalis, oxidizing

agents, metallic powders an substances containing metals such

as copper, nickel, cobalt, zinc and their alloys.

10.6 Hazardous decomposition products

Hazardous decomposition products:

These products can be carbon oxides (CO, CO2), nitrogen

oxides (NO, NO2 etc.), ammonia (NH3).

11. Toxicological information

11.1 Information on toxicological effects

Potential acute health effects:

Adverse health effects are considered unlikely, when the product is used according to directions.

Over-exposure signs/symptoms:



Target organs: Contains material which causes damage to the following organs:

skin, eyes, lens or cornea.

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 known significant effects or critical hazards.

12.3 Bio accumulative potential

No known significant effects or critical hazards.

12.4 Mobility in soil

Mobility This product may move with surface or groundwater flows

because its water solubility is high.

12.5 Results of PBT and vPvB assessment

PBT and vPvB: Not applicable

12.6 Other adverse effects

Other adverse effects: Used in excess quantities the product can cause eutrophication.

13. Disposal considerations

13.1 Waste treatment methods

Methods of Disposal: Empty containers or liners may retain some product residues. Do

not empty into drains; dispose of this material and its container in a safe way. Dispose of in accordance with all applicable local and

national regulations.

Hazardous waste: To present knowledge of the supplier, this product is not

regarded as hazardous waste as defined in EU Directive

2001/118/EC.

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.

14.8 IMSBC

Proper shipping name: Ammonium Nitrate based Fertilizer (Non Hazardous)

Class: Not applicable

Group: C

15. Regulatory information

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

Classification and labeling have been performed according to EU

directives EU453/2010 (REACH Annex II), including

amendments and the intended use.

Ensure all national/local regulations are observed.

Germany: Gefahrstoffverordnung Anhang III/6 und TRGS 511 beachten.

15.2 Chemical safety assessment

No data available

16. Other information

History(*)

Date of issue: 2018-11-07 Datum of previous issue: 2018-01-15

Version: 7

(*) Indicates information that has changed from the previously issued version.

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.