

Information Sheet (IS)

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Date: 09/2024 Version: 2.0

SECTION 1. Identification of the mixture and of the company**1.1 Product identifier**

Trade name : CLEAN FERTILIZER N28 (*)

Liquid slow release CE nitrogen fertilizer based on methylene-urea.

CLEAN FERTILIZER N28 belongs to the CMC 8 (Nutrient polymers), according to Regulation (EU) 2019/1009.

(*) This Information Sheet covers all products bearing the name CLEAN FERTILIZER N28 having a total nitrogen content of 28%.

The substances contained in this mixture are not nanoforms and do not include nanoforms.

1.2 Relevant identified uses of the mixture and uses advised against

Identified uses (main): slow release nitrogen fertilizer.

Uses advised against: not to be used for any purpose other than those identified.

1.3 Details of the supplier of the Information Sheet

Manufacturer/Supplier : ADVAGREEN SA
Head office : 161 / O bte 106 Dreve Richelle, 1410 Waterloo - BELGIUM
Operational office : 24 Route de Wallonie, 7334 Hautrage - BELGIUM
Telephone number : +32 492 24 34 84
E-mail address : info@advagreen.com

1.4 Emergency telephone number

Country : Belgium Emergency number : +32 70 245 245 *only available during office hours

SECTION 2. Hazards identification**2.1 Classification of the mixture****Classification according to Regulation (EC) No 1272/2008 (CLP)**

Not dangerous mixture.

Additional information

None.

2.2 Label elements**Labelling according to Regulation (EC) No. 1272/2008 (CLP) and subsequent amendments:**

Hazard pictograms: unnecessary.

Signal word: unnecessary.

Hazard statements: none.

Precautionary statements:

P261 - Avoid breathing vapours.

2.3 Other hazards

The contained substances do not fulfil the criteria as PBT (non PBT) and vPvB (non vPvB) substances according to Annex XIII of Regulation (EC) No 1907/2006.

According to the information available, none of the components of the mixture has endocrine-disrupting properties.

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SECTION 3. Composition / Information on ingredients

3.1 Substances

N/A

3.2 Mixtures

Identification Name	CAS Number	Registration Number	Classification according to	Identification Name
Urea, polymer with formaldehyde (hereinafter abbreviated as "MU" = methyleneurea)	9011-05-6	exempted	Not dangerous	39 ÷ 44
Urea	57-13-6	01-2119463277-33-XXXX	Not dangerous	22 ÷ 27

RUBRIQUE 4. First aid measures

4.1 Description of first aid measures

General notes	: remove contaminated clothing. If there is a danger of unconsciousness, place the injured person in the recovery position and remove him/her from the scene of the accident.
If inhaled	: remove the injured person from the contaminated area and keep him/her in a well-ventilated area. Seek medical attention if necessary.
In contact with skin	: remove contaminated clothing. Wash contaminated parts thoroughly with running water.
In contact with eyes	: remove any contact lenses. Wash affected eyes immediately with running water for at least 15 minutes while holding the eyelids open; consult an ophthalmologist if necessary.
If swallowed	: rinse mouth immediately and several times with water. If swallowed has occurred and if the victim is conscious, drink plenty of water; seek medical attention.
First responder self-protection	: Responders must pay attention to their own safety.
Note for the doctor Treatment	: no specific treatment is envisaged.

4.2 Most important symptoms and effects, both acute and delayed

Contact with eyes:	possible redness.
Contact with skin:	no hazardous effects are known.
Ingestion:	no hazardous effects are known.
Inhalation:	no hazardous effects are known.

4.3 Indication of any immediate medical attention and special treatment needed

See Section 4.1.

SECTION 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: the product is non-flammable and non-combustible. Fires involving the product can be extinguished using vaporized water, foam, carbon dioxide or powder extinguishers; if circumstances allow, avoid the use of water to prevent damage and leakage of product.

Unsuitable extinguishing media: none.

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5.2 Special hazards arising from the mixture

The product is non-flammable and does not support combustion.

When involved in a fire and heated, it decomposes and can emit toxic fumes containing nitrogen oxides, carbon monoxide and dioxide, ammonia and formaldehyde.

Avoid breathing in the fumes.

5.3 Advice for firefighters

Cool with water the containers exposed to heat and move away containers close to the fire.

Personnel involved must use full-face masks or self-contained breathing apparatus and wear appropriate clothing.

If contaminated by the product, the water used to extinguish the fire must be sent to suitable treatment plants.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

In the event of a spill, persons not involved in the emergency response must be evacuated from the affected area. Alert the emergency service and, in the event of an immediate intervention, follow the instructions given by the personnel in charge.

6.1.2. For emergency responders

Ventilate the area thoroughly if the spill has occurred in a confined area. Prevent contact with skin and eyes by wearing suitable clothing. Protect the respiratory tract (see Section 8.2.2).

6.2 Environmental precautions

Prevent the product from leaking into the environment and flowing into drains, surface water and groundwater.

6.3 Methods and material for containment and cleaning up

6.3.1. For containment:

Contain spillage with sand, sawdust or other absorbent material; cover drains the sewage system with the special mats.

Storage tanks should be located in areas equipped with containment basin of suitable capacity. The mobile containers shall be placed on special containment tanks.

6.3.2. For cleaning up:

Suck and collect spillage, clean thoroughly with sawdust or sand.

6.3.3. Other information:

Water can only be used after removing all liquid and cleaning out the concerned area.

6.4 Reference to other sections

For disposal see Section 13.

SECTION 7. Handling and Storage

7.1 Precautions for safe handling

Ensure good ventilation of the areas of storage and handling.

Loading, unloading and handling operations must be done by skilled staff; possibly adopt a closed-loop system. To minimize occupational exposure may be helpful the use of respiratory protective equipment, clothes, glasses or rubber gloves (see Section 8.2.2).

If spillage occurs, thoroughly air out the contaminated area and confine and recovery with care with sand, sawdust or other absorbent material (see Section 6).

Do not eat, drink or smoke when using this product.

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7.2 Conditions for safe storage, including any incompatibilities

It's recommended to store the liquid CLEAN FERTILIZER N28 into containers corrosion resistant, for example stainless steel type 1.4301 (AISI 304) or type 1.4401 (AISI 316), fiberglass, polyethylene or polypropylene; can also be used carbon steel but care must be taken to corrosion.

CLEAN FERTILIZER N28 doesn't have storage problems: in original packages and at moderate temperature, the product can be conserved without any alteration of its properties for at least one year. For an optimal conservation, the temperature should be kept in the range 5 ÷ 25 °C.

7.3 Specific end use(s)

Fertilizer.

RUBRIQUE 8. Exposure controls / personal protection

8.1 Control parameters

Occupational exposure limit values

The product doesn't contain hazardous substances. CLEAN FERTILIZER N28 contains urea: therefore, during use, a small amount of ammonia vapours can be liberated. If necessary, use masks for respiratory protection with filters for Ammonia (K1 = green).

Information on monitoring procedures

N.A.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Storage and handling areas should be well ventilated; provide adequate localized aspirations at points of possible emission of ammonia.

8.2.2 Individual protection measures, such as personal protective equipment

8.2.2.1 Eye/face protection

Use splash goggles or face shields complying with EN 166. Do not wear contact lenses.

8.2.2.2 Skin protection

Hand protection:

Chemical-resistant protective gloves conforming to EN 374 standard.

Materials also suitable for direct and prolonged contact (recommendation: protection index 6, corresponding > 480 minutes permeation time according to EN 374):

butyl rubber, thickness 0,7 mm

nitrile rubber (NBR), thickness 0,4 mm

Observe the glove manufacturer's instructions regarding dwell time.

Other:

Wear protective clothing suitable for full skin protection and safety footwear (e.g. conforming to EN 14605).

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8.2.2.3 Respiratory protection

See Section 8.1.

8.2.2.4 Thermal hazards

There are no known thermal hazards related to the mixture or substances contained.

General protection and hygiene measures: do not smoke or consume food or drink in handling and process areas. Remove contaminated clothing.

Keep emergency showers and eye wash bottles available in the workplace.

Wash hands before consuming food or drink.

8.2.3 Environmental exposure controls

CLEAN FERTILIZER N28 is classified non-Environmentally Hazardous. However, handling in confined areas protected by containment systems against spillage and local exhaust ventilation systems conveyed to suitable abatement systems must be provided for.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	: clear (or slightly cloudy) liquid
Colour	: colourless or coloured (green, yellow, blue)
Odour	: slightly ammoniac
Melting point/freezing point	: < -15 °C
Boiling point or initial boiling point and boiling range	: > 100 °C
Flammability	: non-flammable
Lower and upper explosion limits	: non-flammable
Flash point	: non-flammable
Self-ignition temperature	: CLEAN FERTILIZER N28 does not self-ignite
Decomposition temperature	: decomposes at temperatures above 250 °C
pH	: 9.0 ÷ 11.0 at 20 °C
Kinematic viscosity	: 12 ÷ 16 mm ² /s at 20 °C
Solubility	: dilutable in water
Partition coefficient n-octanol/water (Log K _{ow})	: N/A (mixture)
Vapour pressure	: n/a
Density and/or relative density	: 1.235 ÷ 1.250 kg/dm ³
Relative vapour density	: n/a
Particle characteristics	: N/A

9.2 Other information

9.2.1 Information with regard to physical hazard classes

Explosives	: N/A
Flammable gases	: N/A
Aerosols	: N/A
Oxidising gases	: N/A
Pressurised gases	: N/A
Flammable liquids	: non-flammable

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Flammable solids	: N/A
Self-reactive substances and mixtures	: non-self-reactive mixture
Pyrophoric liquids	: CLEAN FERTILIZER N28 has no pyrophoric properties
Pyrophoric solids	: N/A
Self-heating substances and mixtures	: CLEAN FERTILIZER N28 is not a self-heating mixture
Substances and mixtures that emit flammable gases in contact with water	: CLEAN FERTILIZER N28 does not emit flammable gases in contact with water
Oxidising liquids	: non-oxidising
Oxidising solids	: N/A
Organic peroxides	: CLEAN FERTILIZER N28 contains no organic peroxides
Substances or mixtures corrosive to metals	: avoid direct contact with iron (see Section 7.2)
Desensitising explosives	: N/A

9.2.2 Other safety characteristics

Mechanical sensitivity	: N/A
Self-accelerating polymerisation temperature	: N/A
Formation of explosive dust/air mixtures	: N/A
Acid/alkaline reserve	: CLEAN FERTILIZER N28 does not have an extreme pH (<2 or >11.5).
Evaporation rate	: N/A
Miscibility	: CLEAN FERTILIZER N28 is compatible with many aqueous solutions of fertilizers, however it is recommended to test compatibility first on a small scale
Conductivity	: N/A
Corrosiveness	: see above
Gas group	: N/A
Oxidation-reduction potential	: N/A
Potential for radical formation	: N/A
Photocatalytic properties	: N/A

SECTION 10. Stability and Reactivity

10.1 Reactivity

No hazardous effects are known.

10.2 Chemical stability

CLEAN FERTILIZER N28 is chemically stable if handled and stored in accordance with good practice (see sections 7.1; 7.2).

10.3 Possibility of hazardous reactions

No hazardous reactions are known.

10.4 Conditions to avoid

Avoid exposure to heat sources.

10.5 Incompatible materials

Avoid contact with carbon steel, alkalis, acids and strong oxidising substances. Store in stainless steel, fibreglass, polyethylene or polypropylene containers.

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10.6 Hazardous decomposition products

CLEAN FERTILIZER N28 does not decompose when used for its intended purpose.

SECTION 11. Toxicological information

Toxicological information on the mixture is not available.

Toxicological information on the main components of the mixture is given below.

11.1 Information on hazard classes defined in Regulation (EC) No 1272/2008

MU: according to available information, the polymer is classified NOT HAZARDOUS.

Urea: according to available information, Urea is classified NOT HAZARDOUS

11.2 Information on other hazards**11.2.1 Endocrine disrupting properties**

There are no known adverse health effects caused by the endocrine-disrupting properties of the constituent substances.

11.2.2 Other information

No other information available.

SECTION 12. Ecological information

CLEAN FERTILIZER N28 is a slow release nitrogen fertilizer. Use according to good working practices, avoiding release of the product in water courses (see Sections 6, 7, 13, 14).

The ecological data for the product are not available.

The following are the ecological information on the main components of the mixture.

12.1 Toxicity**Fish**

MU the available data do not justify classification.

Urea LC₅₀ (96h) = 6,810 mg/L

Crustaceans

MU the available data do not justify classification.

Urea EC₅₀ (48 h): > 10,000 mg/L *Daphnia magna*

Algae/aquatic plants

MU the available data do not justify classification.

Urea NOEC for freshwater algae (192 h) = 47 mg/L

Other organisms

No relevant information is available.

12.2 Persistence and degradability

MU CLEAN FERTILIZER N28 is gradually degrading when dispersed in the ground, releasing products which are metabolized by bacteria and secondarily by hydrolysis.

Urea The substance is readily biodegradable (according to OECD criteria).

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12.3 Bioaccumulative potential

MU	N/A
Urea	The low value of Log Pow (-1,73 à 22 °C) indicates the low bioaccumulative potential of Urea.

12.4 Mobility in soil

MU	N/A
Urea	The literature data (Log Kow values resulted from the various tests) suggest that Urea has from a moderate to a high soil mobility.

12.5 Results of PBT and vPvB assessment

MU	N/A.
Urea	Considering all available data on biotic and abiotic degradation, bioaccumulation and toxicity, we can state that the substance does not meet the PBT criteria (not PBT) and the criteria for vPvB (not vPvB).

12.6 Endocrine-disrupting properties

MU	This substance has no endocrine-disrupting properties in relation to non-target organisms as it does not meet the criteria of Section B of Regulation (EU) 2017/2100.
Urea	This substance has no endocrine-disrupting properties in relation to non-target organisms as it does not meet the criteria of Section B of Regulation (EU) 2017/2100.

12.7 Other adverse effects

MU	No other adverse effects on the environment are known.
Urea	No other adverse effects on the environment are known.

RUBRIQUE 13. Disposal considerations**13.1 Waste treatment methods**

Disposal must take place in an authorised place and in compliance with the laws in force.

However, CLEAN FERTILIZER N28 is a fertilizer and if it is not contaminated by hazardous substances, it can be recycled in other fertilizers.

RUBRIQUE 14. Transport Information

CLEAN FERTILIZER N28 is not a hazardous product within the meaning of transport regulations.

14.1	UN number or ID number	: N/A
14.2	UN proper shipping name	: N/A
14.3	Transport hazard class(es)	: N/A
14.4	Packing group	: N/A
14.5	Environmental hazards	: N/A
14.6	Special precautions for user	: N/A
14.7	Maritime transport in bulk according to IMO instruments	: N/A

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RUBRIQUE 15. Regulatory information

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

Regulation (EC) 1907/2006 and Regulation (EU) 675/2018 - restrictions according to Annex XVII	The product does not contain substances subject to restrictions.
Regulation (EC) 1907/2006 as amended, Article 59 - Candidate List	The product does not contain SVHC substances in concentration $\geq 0.1\%$.
Regulation (EC) 1907/2006 as amended - Annex XIV Authorisation	The product does not contain substances subject to authorisation.
Regulation (EC) 1272/2008 as amended	
Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals	The substances contained are not subject.
Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants	The substances contained are not subject.
Regulation (EU) 2019/1009 of 5 June 2019 laying down rules on the making available on the market of EU fertilising products and amending Regulations (EC) No 1069/2009 and (EC) No 1107/2009 and repealing Regulation (EC) No 2003/2003	
Directive 2012/18/EU of 4 July 2012 (Seveso III Directive)	N/A.

This is not an exhaustive list.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for CLEAN FERTILIZER N28.

RUBRIQUE 16. Other information

(i) Indication of changes

This IS is at revision no. 1

(ii) Abbreviations and acronyms

[...]	Bibliographic reference.
ADR:	Accord européen relative au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
CAS number:	Chemical Abstract Service number
CLP:	Classification, Labelling and Packaging
CSR:	Chemical Safety Report
DNEL:	Derived no effect level
EC:	European Community
EU:	European Union

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EC₅₀:	Concentration giving effect to 50% of the test population.
LC₅₀:	Lethal Concentration: concentration of active ingredient capable of killing 50% of individuals
LD₅₀:	Dose of a substance, administered at one time, capable of killing 50% (i.e. half) of a sample population
IMO:	International Maritime Organization
Nanoform:	Definition contained in the "COMMISSION RECOMMENDATION of 10.6.2022 on the definition of nanomaterial"
N/A:	Not applicable (or technically impossible)
n/a:	Not available
NOAEL:	No Observed Adverse Effect Level
NOAEC:	No Observed Adverse Effect Concentration
NOEC:	(No Observed Effect Concentration) Highest concentration at which no effects were observed that were statistically different from those of the control
OEL:	Occupational exposure level
PBT:	Persistent, bioaccumulative and toxic
PNEC:	Predicted no effect concentration
REACH:	Regulation (EC) 1907/2006
SVHC:	Substances of Very High Concern
TLV:	Threshold limit value
vPvB:	Very persistent very bioaccumulative

(iii) Key literature references and sources for data:

REACH Registration Dossier of the Urea 2019, ECHA Database, Supplier Safety Data Sheets.

(iv) Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Mixture classified as "Non-hazardous".

(v) Relevant H-statements (number and full text)

N/A

(vi) Training advice

N/A

(vii) Further information

No further information is available.

This product must be stored, handled and used according to the rules of hygiene and safety, good industrial practice and in compliance with current regulations. The information contained herein is based on our current knowledge. Users must ensure the suitability and completeness of the information in relation to their particular use. No liability is accepted for the misuse of such information.