

## PRODUCT SPECIFICATION NA/70/2015

Previous issue: NA/70/2014

### 1. Product name:

**Trade name:** Saletrosan<sup>®</sup> 26 makro (or Saletrosan<sup>®</sup> 26)

**Chemical name:** ammonium sulfate nitrate (ASN)

**PKWiU number:** 20.15.39.0

**CN Number:** 3102 29 00

**Product characteristics:** Fertilizer in the form of brown or beige granules. Not controlled by RID or ADR regulations.

### Classification acc. to EC 1272/2008

The product ingredients are not listed in the Regulation of the European Parliament and of the Council (EC) of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended); however, based on the Chemical Safety Report for ammonium nitrate, the product has been classified as an Eye Irritant (Cat. II). This fertilizer has a Safety Data Sheet.

### 2. Quality parameters and test methods:

| Parameter   | Unit of measure | Parameter value  | Test method             |
|---|-----------------|------------------|-------------------------|
| Total nitrogen content (total of nitrate and ammonium nitrogen) | % (m/m)         | 26.0 ± 0.8       | ZN-08/ZA-30             |
| Sulphur content   | % (m/m)         | 13 <sup>1)</sup> | LKA/SaS/2 or LKA/SaS/17 |
| Water content, maximum  | % (m/m)         | 0.8              | LKA/SaS/4               |
| Content of granules sized (2 - 6)mm, not less than              | % (m/m)         | 95               | PN-EN 1235:1999         |

1) Permissible tolerance value acc. to Annex II of the Regulation (EC) No. 2003/2003 of the European Parliament and of the Council of 13 October 2003 concerning fertilizers (as amended).

### 3. Packaging:

Saletrosan<sup>®</sup> 26 makro can be packed in PE bags 50 kg or 25 kg each or in Big-Bags; the product can also be shipped and delivered in bulk.

Saletrosan<sup>®</sup> 26 makro can also be packed in other containers and/or other quantities as agreed with the customer. If the fertilizer is packed, the identification markings are placed on the containers or attached labels. If the fertilizer is in bulk, the marking are placed with the enclosed documents.

The label, and the packaging and enclosed document markings must be at least in the language of the Member State the EC fertilizer is marketed in.

All labels, prints and enclosed shipping documents, as applicable, shall read the following information:

#### a) Obligatory identification:

- Text: **EC FERTILIZER**
- Fertilizer type: **A. 1.6. Ammonium sulfate nitrate**
- Chemical symbols of the declared primary and secondary alimentary ingredients, with numerical content identifiers: 26 N (13 S)

---This product is manufactured under a Management System compliant to ISO 9001, ISO 14001, PN-N 18001 & OHSAS 18001---

- Text designation of alimentary ingredients, their form(s) and size(s):  
**26% of total nitrogen (N), form:**  
**19% of ammonium nitrogen (N);**  
**7% nitrate nitrogen (N);**  
**13% of sulphur (S), form: sulfate.**
- Net weight
- Manufacturer's name/logo and address

b) Voluntary identification:

- Instructions for storage and transport;
- Guidelines for dosage and application conditions;
- Commercial description of the product.

c) Other information:

Product commercial name: obligatory for packaged fertilizers, acc. to the Polish Act of 7 May 2009 on packaged goods (as amended).

The labels and prints of the packaging shall also read:

- Markings for product lot traceability (e.g. date of packaging);
- Handling symbols: "Keep away from heat", "Keep away from water", "Permitted no. of layers in stack", and "Follow the temperature range" acc. to PN-EN ISO 780.

d) Label elements: required due to the product classification:

Signal word: **WARNING**

Pictogram:



Hazard statement:

H319 - Causes serious eye irritation

Precautionary statements:

(P264) - Wash hands thoroughly after handling

(P280) - Use protective gloves / eye protection

(P305 + P351 + P338) - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing

(P337 + P313) - If eye irritation persists get medical advice/attention

(P301 + P312) - IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

#### 4. Transport

Saletrosan<sup>®</sup> 26 makro carried on transport vehicles shall be protected against water, rain and snow, direct sunlight and damage to the product containers. Not controlled by RID or ADR regulations.

The fertilizer in bulk shall be transported directly from production to the customer's storage by a transport vehicle agreed with the product manufacturer.

#### 5. Storage:

Keep Saletrosan<sup>®</sup> 26 makro in dry, ventilated and clean sheltered rooms on a surface isolated from humidity and away from any reagents. Protect the fertilizer from water and humid air during prolonged storage. Keep in Big Bags or tightly cover the fertilizer in heaps with plastic sheet. Saletrosan<sup>®</sup> 26 makro is highly hygroscopic and failure to provide proper storage conditions may result in loss of granule integrity with emission of higher amounts of dust.

Fertilizer, due to granule shape may be compressed during transporting or storing (may be "stuck" inside a big-bag). In this case big-bag should be few times leave from a small altitude to a floor, and next, through a small incision in bottom, in a controlled way place it into the seeder.

Protect Saletrosan<sup>®</sup> 26 makro from:

- water, rain and snow;
- high air humidity;
- direct sunlight;
- mechanical damage of containers;
- heating above 30°C.

Bulk Saletrosan<sup>®</sup> 26 makro can be stored in heaps up to 6 metres high. In order to protect it from humidity, it is recommended that fertilizer stored loose in the storeroom is covered.

The 25 kg and 50 kg bags of the products can be stacked in a maximum of 10 layers. Do not stack the pallets of product due to the hazard of compaction (caking) the bottom product layers. 500 kg Big Bags of the product can be stacked in a maximum of 2 layers. Store larger packaging in single layers only.

See Annex 1 and 2 for detailed guidelines for safe storage of fertilizers with ammonium nitrate and fire-fighting procedures.

#### **6. Warranty:**

The manufacturer gives 12 months of warranty for the fitness of Saletrosan<sup>®</sup> 26 makro for mechanical sowing from the date of sale by the manufacturer, and the warranty remains valid if the product storage and transport requirements are met as defined in the Product Specification and packaging/containers.

The product will not lose its fertilising performance if stored and transported as required.

#### **7. Product quality certificate:**

The conformity certificates (Quality Control Certificates) are available on customer's request.

Documents with product identification markings are provided for fertilizers sold in bulk. Copies of those documents must be enclosed with the goods and be available for inspection.

#### **8. Application:**

Saletrosan<sup>®</sup> 26 makro is a mineral fertilizer for agricultural use.

#### **9. Certificates:**

The Classification Certificate No. 037/IPO-BC/2012 issued by the Institute of Industrial Organic Chemistry in Warsaw to confirm that Saletrosan<sup>®</sup> 26 is not eligible for RID or ADR regulations.

The fertilizer products from Grupa Azoty S.A. are eligible for the Product Stewardship Program of Fertilizers Europe. The relevant certification confirms that Grupa Azoty S.A. manufactures fertilizers in processes which are perfectly safe to humans and the environment.

Product Specification annexes:

Annex 1. Brochure: "In the case of fertilizer fire or decomposition"

Annex 2. Brochure "Safe storage of ammonium nitrate fertilizers"

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## IN THE CASE OF FERTILIZER FIRE OR DECOMPOSITION...

### DO'S:

- ✓ Call the fire guard and notify them of the materials on fire or under decomposition. Evacuate all personnel.
- ✓ Open all doors, windows and roof ventilators to assure maximum ventilators.
- ✓ Locate the fire source and try to contain it if safe to do so.
- ✓ Rotate the products FIFO (First In, First Out).
- ✓ Approach and fight the fire downwind. Avoid inhaling the fumes. Use respiratory protection if necessary.
- ✓ Remove the decomposing fertilizer and spray it with water, if possible.
- ✓ If it is impossible to remove the fertilizer, contain the decomposition with large amounts of water.
- ✓ Prevent the runoff of fused fertilizer and escape of contaminated water to drains.
- ✓ Contact the relevant authorities if there is a hazard of water contamination.

### DON'TS:

- \* **Do not use chemical extinguishers, foam extinguishers, steam or sand on decomposing fertilizers.**

## FIRST AID

### DO'S:

- ✓ Evacuate all personnel exposed to fumes into a safe shelter, rest them in a shadowed place and keep warm.
- ✓ Call a medical doctor, inform them of the gas type and show them the SDS (Safety Data Sheet).
- ✓ If the injured stops breathing, administer artificial ventilation (do not compress the chest!) or oxygen (by trained personnel only!).
- ✓ Keep under medical supervision for a minimum of 48 hours.

## AFTER A FIRE/DECOMPOSITION

### DO'S:

- ✓ Prevent recurrence of fire/decomposition of the fertiliser. Monitor the site of emergency for a time afterwards, if necessary.
- ✓ Clean the area of emergency.
- ✓ Neutralize the destroyed fertilizer in a safe way (according to the industrial guidelines).
- ✓ Prevent environmental contamination with the destroyed fertilizer (i.e. runoff to watercourses or underground waters).

**EMERGENCY PHONE NUMBER: 112**

**Detailed information - call: +48 14 637 21 00**

# Safe storage of ammonium nitrate fertilizers



Ammonium nitrate fertilizers remain safe provided that they are handled according to the relevant industry guidelines.

The substance is not toxic or a hazard of autoignition or explosion. The fertilizers exposed to heat or fire may decompose and release toxic fumes.

## DO'S:

- ✓ Always maintain a register of the fertilizers in storage.
- ✓ Keep storage instruction easily accessible. Train the personnel in safe handling of fertilizers and emergency response.
- ✓ Rotate the products FIFO (First In, First Out).
- ✓ Follow the good housekeeping practices.
- ✓ Provide free access to emergency response equipment and emergency escape routes.
- ✓ Maintenance requires approval of the relevant supervisor and compliance with relevant procedures.
- ✓ Use approved electrical equipment only.
- ✓ Use warning signs.
- ✓ Correctly label the bags and containers with the fertilizer.
- ✓ Maintain a safety inspection program.

## DON'TS:

- \* Access by unauthorized personnel is prohibited.
- \* Do not smoke or use open flame.
- \* Do not keep or use any gas cylinders/bottles, oil drums, gas or oil tanks, or refuelling stations near the fertilizers.
- \* Do not use any incandescent lamps: use fluorescent lamps and avoid their direct contact with the fertilizers.
- \* Keep all heat sources away from the fertilizers.
- \* All hot work without relevant permissions and proper supervision is prohibited.
- \* Do not contaminate the fertilizers with flammable and/or organic materials, hay, straw, farming chemicals, oils, lubricants, acids, or alkalis.
- \* Do not dry wet floors with sawdust (use inert materials instead).

