

S A F E T Y F O R M

(in compliance with directive 93/112/CE)

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PROFESSIONAL NPK

Date of compilation:	July, 15 1999
Date of revision:	March, 22 2002
Revision N°:	2

1 IDENTIFICATION OF THE PRODUCT AND THE COMPANY

1.1 IDENTIFICATION OF THE PRODUCT

Name: Organic-mineral NPK fertilizer

Commercial name: Professional NPK

1.2 COMPANY

ILSA SPA tel. +39 0444 452020 a.r. Fax +39 0444 671596

Via Quinta Strada, 28 ZI

C.P. 160 – 36071 ARZIGNANO (VI) E-mail: ilsa@ilsagroup.com

1.3 EMERGENCY CALLS

ILSA SPA Tel. +39 0444 452020 a.r.

2 COMPOSITION/INFORMATION ON INGREDIENTS

2.1 NATURE OF INGREDIENTS

Raw materials employed consist of hydrolyzed furs, potassium sulphate, urea, ammonium diphosphate, super phosphate, .

For complete product composition consult the specific form.

2.2 CLASSIFICATION

Not classified as a dangerous material according to directive 88/379/CEE.

3 INDICATION OF RISKS

3.1 HUMAN HEALTH

Fertilizers are generally not dangerous if they are handled properly.

However the following points should be given due consideration:

- *Contact with the eyes:* contact could cause irritation.
- *Ingestion:* small quantities should not cause toxic effects.
- *Inhalation:* high concentrations of product dust in the air could cause irritation to the nose and respiratory tract.
- *Long term effects:* no known adverse long-term effects.
- *Fire and products of thermal decomposition:* inhalation of gases coming from decomposition could cause irritation of respiratory tract.



AGROTECNOLOGIE

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3.2 ENVIRONMENT

Spillage into the environment, since this is a fertilizer, could have negative effects.

4 FIRST AID MEASURES

4.1 CONTACT WITH THE EYES:

Rinse with abundant water.

4.2 IN CASE OF INHALATION OF DUST:

Take the person out to fresh air.

4.3 IN CASE OF INGESTION:

Notify a physician if a substantial amount is ingested.

5 FIRE-FIGHTING MEASURES

5.1 IF THE FERTILIZER IS NOT DIRECTLY INVOLVED IN THE FIRE:

Use the most effective available means to extinguish the fire.

5.2 IF THE FERTILIZER IS INVOLVED IN THE FIRE:

- Call the Fire Department.
- Avoid inhaling fumes. Keep upwind from the fire.
- Use large quantities of water.
- Open doors and windows in the room to permit maximum ventilation.
- Prevent the fertilizer from ending up in the sewer system.
- Prevent the fertilizer from being contaminated by oils or other flammable materials.
- Inform local authorities if water with fertilizer enters the sewer system or gets into surface waters.

6 MEASURES TO TAKE IN CASE OF ACCIDENTAL SPILLAGE

6.1 INDIVIDUAL PRECAUTIONS:

Avoid inhaling the dust.

6.2 ENVIRONMENTAL PRECAUTIONS:

Any spillage of fertilizer must be immediately cleaned up and placed in labeled containers for correct disposal. Dispose of the product, depending on the degree and type of contamination, either as fertilizer on the farm or in an authorized waste disposal site. Use care to avoid contaminating waterways and sewer systems. Inform local authorities of accidental pollution of surface waters.

7 HANDLING AND STORAGE

7.1 HANDLING:

Even though this product does not create particular problems and is not a dangerous substance it must be handled using all normal precautions applied with all chemical substances.

- Use gloves when performing prolonged handling of the product.
- Avoid excess dust formation.
- Avoid exposure to rain and damp to prevent absorption of humidity.

7.2 STORAGE:

Store distant from sources of heat or open flames.

Keep distant from flammable materials.

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7.3 OTHER MEASURES:

Keep away from children and animals.

8 CONTROL OF EXPOSURE/INDIVIDUAL MEANS OF PROTECTION8.1 PROFESSIONAL EXPOSURE LIMITS:

No specific official limits exist.

8.2 EYE PROTECTION:

Goggles to protect against dust.

8.3 RESPIRATORY SYSTEM PROTECTION:

Facemasks to eliminate dust if dust levels are high.

8.4 HAND PROTECTION:

Gloves.

9 CHEMICAL AND PHYSICAL PROPERTIES9.1 PHYSICAL CHARACTERISTICS

PHYSICAL APPEARANCEgranules
 PHYSICAL STATEsolid
 COLORgray

9.2 CHEMICAL CHARACTERISTICS

TOTAL NITROGEN.....(N%) 8
 ORGANIC NITROGEN.....(N%) 2
 AMMONIUM NITROGEN.....(N%) 4
 UREIC NITROGEN.....(N%) 2
 TOTAL PHOSPHOR DIOXIDE.....(P₂O₅%) 6
 WATER/CITRO-SOLUBLE PHOSPHOR DIOXIDE.....(P₂O₅%) 4,5
 WATER-SOLUBLE POTASSIUM OXIDE.....(K₂O%) 14
 WATER-SOLUBLE SULFUR DIOXIDE.....(SO₃%) 35
 WATER-SOLUBLE BORON.....(B%) 0.01
 WATER-SOLUBLE IRON.....(Fe%) 0.5
 WATER-SOLUBLE ZINC.....(Zn%) 0.01
 ORGANIC CARBON OF BIOLOGICAL ORIGIN.....(C%) 7.5
 TOTAL CHROMIUM.....(Cr mg kg⁻¹) 250
 WATER-SOLUBLE CHROMIUM.....(Cr mg kg⁻¹) 50

10 STABILITY AND REACTIVITY10.1 STABILITY

The product is stable under normal storage, handling and use conditions.

10.2 DANGEROUS REACTIONS

No significant dangerous reactions are present.

10.3 THERMAL DECOMPOSITION AND PRODUCTS OF DECOMPOSITION

Unidentified organic compounds can be formed during decomposition.

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10.4 STORAGE TIME

12 months in the original package and in suitable storage conditions.

11 TOXICOLOGICAL INFORMATION

Symptoms of excessive exposure: not findable

12 ECOLOGICAL INFORMATION

The product is evidently biodegradable since it is a nutrient for plants and microorganisms. As a consequence no build-up problems exist.

13 DISPOSAL CONSIDERATIONS

The product, when it is not contaminated by other pollutants, can be disposed of on farm terrain. If it is contaminated by other substances it must be disposed of in an authorized disposal site.

14 SHIPPING INFORMATION

14.1 ROAD AND RAILROAD

No restriction.

14.2 MARITIME

No restriction.

14.3 AIR

No restriction.

15 INFORMATION ON REGULATIONS

15.1 ITALIAN LEGISLATION

Law dated October 19, 1984 N° 748 "New standards for regulating fertilizers" and subsequent modifications.

16 OTHER INFORMATION

The information in this Safety Data Form is furnished in good faith and we are convinced that it is accurate based on our knowledge of the product at the time of publication. This does not imply acceptance of any responsibility by the ILSA SpA: Company for consequences regarding proper or improper use in any particular circumstance.

In no case does this dispense the user of the product from compliance with all laws, decrees and regulations existing relative to the product and to health and hygiene and work safety standards.

Drawn up according to the provisions of form EFMA (European Fertilizer Manufacturers' Association).