

S A F E T Y F O R M

(in compliance with directive 93/112/CE)

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LEAF N

Date of compilation:	September 15, 1998
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Revision N°:	2

1 IDENTIFICATION OF THE PRODUCT AND THE COMPANY

1.1 IDENTIFICATION OF THE PRODUCT

Name: Liquid nitrogen organic fertilizer.
Commercial name: Leaf N

1.2 COMPANY

ILSA SPA Tel. 0444 452020 a.r. Fax 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. 0444 452020 a.r.

2 COMPOSITION/INFORMATION ON INGREDIENTS

2.1 NATURE OF INGREDIENTS

The product is a liquid nitrogen organic fertilizer composed of amino acids, peptides and water.
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 skin:* prolonged contact may 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 SKIN:

Wash with soap and 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:

The product is not flammable.

Open room doors and windows to permit maximum ventilation.

5.2 RISKS CAUSED BY COMBUSTION:

Avoid inhaling fumes.

5.3 SUITABLE PROTECTIVE EQUIPMENT:

Masks and gloves.

6 MEASURES TO TAKE IN CASE OF ACCIDENTAL SPILLAGE

6.1 INDIVIDUAL PRECAUTIONS:

Wear gloves and boots.

6.2 ENVIRONMENTAL PRECAUTIONS:

Any fertilizer spillage must be immediately cleaned up, absorbing the fertilizer with inert materials (sand, sawdust, etc.) and placing it in labelled containers for proper disposal. Dispose of the product, depending on the type and nature of contamination, as fertilizer on the farm or in authorized waste disposal sites. Be careful to avoid contaminating surface waters and sewer systems. Inform the authorities in case of accidental pollution of watercourses.

7 HANDLING AND STORAGE

7.1 HANDLING:

Although this is not a dangerous product and does not create particular problems it must be manipulated applying the normal precautions used with all liquid chemical substances.

- Wear gloves when handling the product for prolonged time periods:

7.2 STORAGE:

Store distant from sources of heat or open flames.

Keep distant from flammable materials.

7.3 OTHER MEASURES:

Keep away from children and animals.

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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:

No special protection means are required.

8.4 HAND PROTECTION:

Rubber gloves.

9 CHEMICAL AND PHYSICAL PROPERTIES9.1 CHEMICAL AND PHYSICAL CHARACTERISTICS

PHYSICAL STATE liquid
COLOR Brown
ODOR typical
SOLUBILITY soluble in water
FLASH POINT non-flammable
DENSITY 1,26
DANGEROUS REACTIONS none

9.2 CHEMICAL CHARACTERISTICS

TOTAL NITROGEN (N%) 9
ORGANIC NITROGEN (N%) 9
ORGANIC CARBON OF BIOLOGICAL ORIGIN (C%) 24
TOTAL CHROMIUM (Cr mg kg⁻¹) 10 ÷ 30
WATER-SOLUBLE CHROMIUM (Cr mg kg⁻¹) nd

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.

10.4 STORAGE TIME

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

11 TOXICOLOGICAL INFORMATION

Symptoms of excessive exposure: not findable

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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 restrictions.

14.2 MARITIME

No restrictions.

14.3 AIR

No restrictions.

15 INFORMATION ON REGULATIONS

15.1 EEC DIRECTIVES

ECC Regulation 2092/91 (Biological agriculture)

15.2 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 S.p.A.: 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).