

Material Safety Data Sheet

ADOB

According to REACH Regulation (EC) No 1907/2006 of the European Parliament
and of the Council of 18 December 2006

Date of issue: 25.10.2010.
No. 1/10.

1. IDENTIFICATION OF SUBSTANCE COMPANY / UNDERTAKING IDENTIFICATION

Company/undertaking identification:

Przedsiębiorstwo Produkcyjno-Consultingowe ADOB Sp. z o. o. Sp. k.

ul. Warszawska 43, PL 61-028 Poznań

tel. (+ 48 61) 650 31 66

fax: (+ 48 61) 650 31 67

Emergency telephone number: + 48 61 650 31 67

Use of the substance / preparation:

Industrial manufacturing, fertilizer.

Magnesium nitrate - liquid 37%

2. HAZARDS IDENTIFICATION

2.1 Classification

Labeling according to EC Directives:

No hazardous product as specified in Directive 67/548/EEC.

2.2 Health effects:

Hazardous in case of eye and skin contact (irritant).

Slightly hazardous in case of ingestion.

3. Composition/information on ingredients

Water solution

<i>Contains</i>	37 % w/w
<i>CAS-No.:</i>	10377-60-3 (100%)
<i>EC-No.:</i>	233-826-7
<i>Chemical formula:</i>	Mg (NO ₃) ₂

4. First aid measures

Health effects:

Hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation.
Slightly hazardous in case of ingestion.

Eye contact:

Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Seek medical attention.

Skin contact:

After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used.
Cover the irritated skin with an emollient. If irritation persists, seek medical attention.
Wash contaminated clothing before reusing.

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Product name:

Magnesium nitrate - liquid 37%

Inhalation:

If vapors mists or sprays of this product are inhaled remove contaminated individual too fresh air.

Ingestion:

Have conscious person drink several glasses of water or milk. Induce vomiting.

Seek medical attention.

5. Fire fighting measures

Non- flammable material.

Suitable extinguishing medium:

According to materials stored in the immediate neighbourhood.

6. Accidental release measures

Person-related precautionary measures:

Do not inhale dusts.

Procedures for clearing/ absorption:

Take up with liquid-absorbent. Forward for disposal. Clean up affected area.

7. Handling and storage

Handling:

Keep away from heat, sources of ignition, and combustible materials. Keep away from incompatibles materials and organic materials.

Storage:

Tightly closed. Storage temperature: from -10°C to +50°C.

8. Exposure controls / personal protection

Personal protective equipment:

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Respiratory protection: Required when aerosol are generated

Eye protection: Required

Hand protection: Gloves

The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC.

Industrial hygiene: Change contaminated clothing. Application of skin-protective barrier cream recommended. Wash hands after working with substance.

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Product name:

Magnesium nitrate - liquid 37%

9. Physical and chemical properties

Form:	water solution
Colour:	colourless /yellow
Content of dry matter w/w:	37 %
MgO	10 %(w/w)
Mg	6 %(w/w)
N-NO ₃	7 %(w/w)
pH of 1,0 % water sol.:	(20° C) 2,0 – 7,0
Density :	(20° C) 1,330 ± 0,01g/cm ³

10. Stability and reactivity

Stability:

Stable product.

Substances to be avoided:

Reactive with organic combustible substances, reducing agents.

Hazardous decomposition products:

In the event of fire. (See chapter 5).

11. Toxicological information

Acute toxicity:

LD₅₀ (oral,rat): 5440 mg/kg (solid product).

Eye irritation test (rabbit): Non - irritating.

Further toxicological information:

After eye contact: Slight irritations.

After inhalation of dust: Irritation symptoms in the respiratory tract.

After swallowing: Nausea, vomiting.

Systematic effects: The following applies to nitrites/nitrates in general: methaemoglobinemia after the uptake of large quantities.

Further information:

The product should be handled with the care usual when dealing with chemicals.

12. Ecological information

Biologic degradation:

Methods for the determination of biodegradability are not to inorganic substances.

Further ecologic data:

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The following applies to nitrates in general: may contribute to the eutrophication of water supplies.
Hazard for drinking water.

13. Disposal consideration

Product:

Chemicals must be disposed of in compliance with the respective national regulations. Under www.retrologistik.de you will find special information on the respective national conditions as well as contact partners.

Packaging:

Packaging must be disposed of in compliance with the country-specific regulations or must be passed to a packaging return system. Under www.retrologistik.de you will find special information on the respective national conditions as well as contact partners.

14. Transport information

Road & Rail:	ADR/RID : safety
Sea:	IMCO/IMDG: safety
Produkt name:	Magnesium nitrate - liquid 37%
EC number:	233-826-7

The transport regulations are cited according to international regulations. Possible national deviations in other countries are not considered. (In Poland Dz.U.Nr 194, poz.1629 z 2002r.)

15. Regulatory information

Symbol:

S-phrases

S: 26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S: 37/39	Wear suitable protective gloves and eye/face protection.

16. Other information

General update.

*The information contained herein is based on the present state of knowledge.
It characterizes the product with regard to the appropriate safety precautions.
It does not represent a guarantee of the product.*