

MATERIAL safety data sheet in compliance with Reg. (EC) Nr.1907/2006, 1272/2008, 453/2010

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

1.1. PRODUCT IDENTIFIER

Compound of magnesium oxide, calcium oxide and secondary products. Exempted according to Annex V.7.

Trade name: Namex XA

Chemical name/synonyms: magnesium oxide

1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST Expansive additive for cement based materials.

Advised against all other uses

1.3 DETAIL OF THE SUPPLIER OF THE SAFETY DATA SHEET

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2. HAZARDS IDENTIFICATION

CLASSIFICATION OF THE

SUBSTANCE

according to Regulation(EC)No. 1272/2008[CLP/GHS]:

Skin Irritation 2, H315 Eye damage 1, H318 STOT SE 3, H335

HAZARD PICTOGRAMS:





GHS 05

5

SIGNAL WORD:

HAZARD STATEMENTS:

Danger

H315: Causes skin irritation.

H318: Causes serious eye damage. H335: May cause respiratory irritation. P261: Avoid breathing dust/spray

PRECAUTIONARY STATEMENT:

P280: Wear protective gloves/protective clothing/eye

protection/face 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.

LABELLING ACCORDING TO DIRECTIVE 67/548/EEC

INDICATION OF DANGER:

Xi irritant

RISK PHRASES:

R37: Irritating to respiratory system.

R38: Irritating to skin.

R41: Risk of serious damage to eyes.

SAFETY PHRASES:

S2: Keep out of the reach of children.

S25: Avoid contact with eyes

S26: In case of contact with eyes, rinse immediately with

plenty of water and seek medical advice

. S37: Wear suitable gloves S39: Wear eye/face protection

HEALTH EFFECTS:

Potential health effects may vary depending on the duration and degree of exposure. To reduce or eliminate health hazards associated with this product, use exposure controls or personal protection methods as described

Section 8

ENVIRONMENTAL EFFECTS:

Not classified as harmful, but may cause environmental

effects due to alkalinity.

3. COMPOSITION / INFORMATION ON INGREDIENTS

SINGLE PRODUCT / COMPOUND

Compound of magnesium and calcium

Oxide

Chemical name	CAS Nr.:	EINECS Nr.:	DSD Classification	CLP Classification
Magnesium Oxide (75-90%)	1309-48-4	215-171-9	-	÷
Calcium Oxide (0-5%)	1305-78-9	215-138-9	Xi - irritant. R37; R38; R41	Skin Irr. Cat. 2: H315 Eye Dam. 1: H318 STOT SE3: H335

4. FIRST-AID MEASURES

EYE CONTACT

If this product comes in contact with eyes, wash out

immediately with fresh water for at least 15 minutes and

consult a doctor.

Removal of contact lenses after an eye injury should only be

undertaken by skilled personnel.

SKIN CONTACT

If skin contact occurs immediately remove all contaminated clothing, including footwear, flush skin and hair with running water (and soap if available). Seek medical attention in event

of irritation

INHALATION

If dust is inhaled, remove from exposure to fresh air immediately. If breathing is difficult, give oxygen and consult a doctor. Encourage patient to blow nose to ensure clear breathing passages. Ask patient to rinse mouth with water.

Seek medical attention.

INGESTION

Rinse mouth with fresh water and consult a doctor.

4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Main modes of action:

Acute: Irritation of the eyes and respiratory tract

Chronic: lung function impairment

Metabolism and excretion:

Magnesium (essential trace element, physiological content about 272-420 mg / kg body weight) is stored in the body, especially in the bones (around 60%) and muscle (about 29%). Only about 1% of Mg is extracellularly, of which 1/3 is bound to plasma proteins; the remaining 2/3 (ionized present and diffusible) seem to be the biologically active part. Excretion is almost exclusively through the kidney into the urine. Mg is in the body in many fundamental metabolic processes involved (interaction especially with calcium and phosphate ions). Deviations from the physiological equilibrium in both directions (hyper- or hypomagnesemia) may lead to disease symptoms.

After inhalation use parenteral glucocorticoids, further antibiotic and prescribe mucolytic.

5. FIRE-FITHING MEASURES

FIRE AND EXPLOSIVE PROPERTIES The product is not flammable, and will not form explosive

dust clouds.

EXTINGUISHING MEDIA Non combustible. Use dry powder, foam or CO2 to extinguish

surrounding fire.

SPECIFIC HAZARDS None

FIGHTERS

PROTECTIVE EQUIPMENT FOR FIRE Fire fighters should wear an approved self-contained breathing apparatus and full protective clothing.

HAZARDOUS COMBUSTION

PRODUCTS

None

FIRE FIGHTING Use firefighting procedures suitable for surrounding area.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS Avoid dust formation. Use dust mask

Material may harm aquatic life. **ECOLOGICAL PRECAUTIONS**

SPILL AND LEAK PROCEDURES Dry material. Collect the product into suitable containers

avoiding dust formation.

7. HANDLING AND STORAGE

STORAGE Avoid dust formation. Use dust mask, Keep in a dry place.

HANDLING Keep containers closed in a well ventilated area. Minimize

dust generation and accumulation. Use proper personal

protective equipment.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

PARAMETERS TO WATCH

Magesiumoxide **TRGS 900**

General dust limit inhalable fraction

10 mg/m³

Maximum limit 2 (II)

OCCUPATIONAL EXPOSURE CONTROLS

ENGINEERING REQUIREMENTS

Use adequate ventilation and local exhaust to keep airborne

concentration low. Maintain eye rinse fountains and quick-

drench facilities in work area

EYE PROTECTION REQUIREMENTS Safety spectacles with side shields or goggles with full face

shield

HAND PROTECTION

REQUIREMENTS

Protective gloves

CLOTHING REQUIREMENTS Where more extensive contact may occur, wear suitable

protective clothing (e.g. apron, sleeves, boots).

RESPIRATORY REQUIREMENTS In case of brief exposure or low pollution use filter respirator.

In case of intensive or longer exposure, use self-contained

breathing protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM Powder
COLOUR Beige
ODOUR Odourless

pH 12 in saturated water solution

BOILING POINT 3582°C MELTING - / FREEZING POINT 2800°C SOLUTILITY IN WATER 6 mg/l

VISCOSITY Not applicable 3,5 - 3,7 g/cm³ DENSITY Not applicable **EVAPORATION RATE** Not applicable VAPOUR PRESSURE LOWER EXPLOSION LIMIT (%) Not applicable Not applicable **UPPER EXPLOSION LIMIT (%) AUTOFLMMABILITY** Not flammable **FLASH POINT** Not combustible **DUST EXPLOSION CLASS** Not applicable

10. STABILITY AND REACTIVITY

STABILITY

INCOMPATIBLE MATERIAL AND

CONDITIONS TO AVOID:

Absorbs humidity and carbon dioxide from the air

Strong acids. Contact with aluminium and humidity will form hydrogen gas. Reaction exothermally with non-metal-

halogenates as phosphor pentachloride.

HAZARDOUS DECOMPOSITION

PRODUCTS

none

11. TOXICOLOGICAL INFORMATION

The preparation has not been tested for toxicological effects, but it is classified as a skin and eye irritant on the basis of the known hazards of the components.

ACUTE TOXICITY No components are classified as harmful

CORROSIVITY/IRRITATION Magnesium oxide dust or fumes are expected to be a mild

eye irritant and irritates the respiratory system

SENSITISATION No ingredient has been identified as having sensitising

MSDS Namex XA Page 4 of 6

properties.

REPEATED-DOSE TOXICITY/MUTAGENICITY/ CARCINOGENICITY/REPRODUCTIVE AND DEVELOPMENTAL TOXICITY No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicological data have not been determined specifically for this product, but it is not expected to be classified as toxic to aquatic organisms on the basis of the known hazards of the components.

MOBILITY

The product is partially soluble in water and expected to

have a low vapour pressure.

PERSISTENCE AND DEGRADABILITY

Not applicable to inorganic product.

BIOACCUMULATION

Not applicable to inorganic product.

AQUATIC TOXICITY

Not expected to be toxic to aquatic organisms, but may cause harmful changes in pH (high alkalinity) in water.

13. DISPOSAL CONSIDERATION

WASTE DISPOSAL METHODS

This product may be suitable for disposal by landfill. Some reduction of hazard can be effected by careful neutralisation with dilute acid. Disposal must be in accordance with current national and local regulations. Chemical residues generally count as special waste, and their disposal may be regulated in the EC member countries through corresponding laws and regulations. We recommend that you contact either the authorities or approved waste disposal companies who will advise you on how to dispose of special waste. General EU requirements are given in the Waste Framework Directive (75/442/EEC) and the Hazardous Waste Directive (91/689/EEC).

Directive (51/000/2

EMPTY CONTAINER WARNINGS

Packaging may contain residues of the product and

should be treated accordingly.

EU WASTE NO

060316

14. TRANSPORT INFORMATION (See also section 9)

IATA CLASSIFICATION IMDG CLASSIFICATION ADR/RID

product is not classed as a dangerous good product is not classed as a dangerous good product is not classed as a dangerous good

15. REGULATORY INFORMATION

15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATION/LEGISLATIONJ SPECIFIC FOR THE SUBSTANCE:

EUROPEAN/INTERNATIONAL

REGULATIONS

EUROPEAN LABELING IN

ACCORDANCE WITH EC DIRECTIVES

The substance is not subject to authorisation or

restriction under REACH.

HAZARD SYMBOL:



Danger

EU LEGISLATION:

Compound as dangerous according EU 1272/2008 REACH Regulation (1907/2006)

EU legislation: 1999/45/EC, 2001/58/EC, 2006/58/EC,

2006/8/EC

15.2 CHEMICAL SAFETY ASSESSMENT

No Chemical Safety Assessment has been carried out for this substance by the supplier

16. OTHER INFORMATION

REPLACES VERSION DATED

ORIGINAL DOCUMENT DATED

07.12.2015

FOR REGULATORY INFORMATION;

CONTACT

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