SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Code: **0106977060**
Product name: **MX GOLD CP**

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use: **Pure natural hydraulic lime (NHL 3.5) based mortar for the structural restoration of masonry.**

1.3. Details of the supplier of the safety data sheet

Legal and administrative address: **RUREGOLD S.r.l.**
Piazza Centro Commerciale 43
20090 San Felice (Milano)
Italy
Tel. +390283590006
Fax +390283590007

e-mail address of the competent person responsible for the Safety Data Sheet: **reach@ruregold.it**

Product delivered by: **RUREGOLD S.r.l.**

1.4. Emergency telephone number

For urgent inquiries refer to +39 0283590006 (active from 8.30 to 17.30)
Members of the public
In an emergency, if the patient has collapsed or is not breathing properly, call 999

For medical advice contact:
NHS 111 in England: 111
NHS 24 in Scotland: 111
NHS Direct in Wales: 0845 4647
In Northern Ireland: contact your local GP or pharmacist during normal hours.
In Ireland: contact NPIC on (01) 809 2166(8 am to 10 pm); outside of these hours contact your GP or hospital emergency department.
hiip://www npis org/index.html

Healthcare professionals
UK NPIS 0344 892 0111
Ireland NPIC (01) 809 2566
https://www toxbase org/

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified dangerous according to the provisions of Regulation (EC) 1272/2008 (CLP) (and subsequent amendments and supplement). The product therefore requires a Safety Data Sheet in accordance with the provisions of Regulation (EU) 2015/830. Any additional information regarding health and / or environmental risks is given in the sections. 11 and 12 of this sheet.

Hazard classification and indication according to Regulation (EC) n° 1272/2008 (CLP)

Serious eye damage, category 1;	H318	Causes serious eye damage
Skin irritation, category 2	H315	Causes skin irritation
Specific target organ toxicity - single exposure, category 3	H335	May cause respiratory irritation
Skin sensitization, category 1B	H317	May cause an allergic skin reaction

2.2. Label elements

Hazard pictograms:

Signal words:	Danger	
Hazard statements:	H315	Causes skin irritation
	H318	Causes serious eye damage
	H335	May cause respiratory irritation
	H317	May cause an allergic skin reaction
Precautionary statements:	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..
	P310	Immediately call a POISON CENTER/doctor
	P261	Avoid breathing dust/fume/gas/mist/vapours/spray
	P403+P233	Store in a well-ventilated place. Keep container tightly closed.
	P264	Wash the hands with water and soap thoroughly after handling.
Contains:	natural hydraulic lime,	

:**2.3. Other hazards**

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Identification	N° EINECS	N° CAS	N° REACH registration	CLP Classification	Conc. [%]	Note
natural hydraulic lime	285-561-1	85117-09-5	01-2119475523-36-xxxx	H 315 Skin Irrit. 2; H 318 Eye Dam.1; H 335 STOT SE 3.	10- 20	
mixture of silicates and calcium aluminates				H 315 Skin Irrit. 2; H 317 Skin Sens. 1; H 318 Eye Dam.1; H 335 STOT SE 3.	0,1 - 3	
crystalline silica - quarz	*238-878-4*	*14808-60-7*			25 - 55	Substance with a community exposure limit in the workplace
Calcium carbonate	*207-439-9*	*471-34-1*			30 – 60	Substance with a community exposure limit in the workplace

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: do not rub eyes. Irrigate immediately for at least 10 minutes with clean running water. Remove any contact lenses if it is easy to do and continue rinsing. If irritation persists, consult a doctor.
SKIN wash the affected parts immediately with clean running water and mild soap. Remove contaminated clothing and wash them before wearing them again. In case of irritation, consult a doctor.
INGESTION: wash your mouth thoroughly and consult your doctor immediately or contact a poison control center.
INHALATION: transport the injured person immediately in a well-ventilated area; if the injured person feels ill contact a POISON CENTER or doctor immediately

4.2. Most important symptoms and effects, both acute and delayed
Refer to SECTION 2 and SECTION 11.

4.3. Indicazione Indication of any immediate medical attention and special treatment needed
Refer to SECTION 4.1. Treat symptomatically.

SECTION 5. Firefighting measures

5.1. Extinguishing media
SUITABLE EXTINGUISHING EQUIPMENT
The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.
UNSUITABLE EXTINGUISHING EQUIPMENT
None in particular.

5.2. Special hazards arising from the substance or mixture
HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE
Do not breathe combustion products.
The product is neither flammable nor explosive and does not facilitate the combustion of other materials.

5.3. Advice for firefighters
GENERAL INFORMATION
Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.
Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Avoid dust formation by spraying the product with water if there are no contraindications.
Wear appropriate protective equipment (including personal protective equipment referred to in section 8 of the safety data sheet) to prevent contamination of the skin, eyes and personal clothing. These indications are valid both for workers involved in the work and for emergency interventions..

6.2. Environmental precautions
Prevent the product from entering sewers, surface waters, phreatic water.

6.3. Methods and material for containment and cleaning up
Collect the spilled product and place it in containers for recovery or disposal. Eliminate the residue with jets of water if there are no contraindications.
Ensure adequate ventilation of the area affected by the loss. Evaluate the compatibility of the container to be used with the product, checking section 10. The disposal of contaminated material must be carried out in accordance with the provisions of point 13.

6.4. Reference to other sections
Any information regarding personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling
Handle the product after consulting all the other sections of this safety data sheet. Avoid dispersion of the product in the

environment. Do not eat, drink or smoke during use. Remove contaminated clothing and protective equipment before entering areas where you eat.

7.2. Conditions for safe storage, including any incompatibilities
Store the product in its unopened packages in a dry and adequately ventilated place, away from humidity, avoiding the dispersion of the dust and away from acid compounds.

7.3. Specific end use(s)
Pure natural hydraulic lime (NHL 3.5) based mortar for the structural restoration of masonry. For different and / or particular uses, contact the Ruregold srl Sales Office "

SEZ SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Hydrated lime	SCOEL - TWA (8 hours)	= 1 mg/m^3
	SCOEL - STEL (15 minutes)	= 4 mg/m^3
Calcium carbonate	Frazione inalabile	= 10 mg/m^3
	Frazione respirabile	= 5 mg/m^3
Dust - inhalable fraction	ACGIH - TWA (8 hours)	= 10 mg/m^3
Dust - respirable fraction	ACGIH - TWA (8 hours)	= 3 mg/m^3
Free crystalline silica - respirable fraction	ACGIH - TWA (8 hours)	= 0.025 mg/m^3

DNEL (respirable fraction): 1 mg/m^3
DNEL (skin): not applicable
DNEL (ingestion): not relevant
As regards the assessment of environmental risk, we have:
PNEC (water): not applicable
PNEC (sediment): not applicable
PNEC (soil): not applicable

For substances with exposure limits, concentration checks must be carried out in the workplace according to the provisions in force.

8.2. Exposure controls

If necessary, use personal protection devices that comply with the standards required by European and national reference standards. Consult the supplier in any case before making a final decision on the devices to be equipped.

Skin protection:	Wear waterproof work clothes (able to cover your forearms in continuity with gloves) and safety shoes for professional use.
Hands protection:	Wear alkali-resistant impervious gloves (breakage time> 480 minutes) complying with Directive 89/686 / EEC and UNI EN 374 - part 1, 2 and 3. Since the product is a mixture of several substances, the resistance of the glove material (degradation, breaking time and permeation) must be tested before use, as it cannot be foreseen in advance.
Eye protection:	Wear goggles conforming to the UNI EN 166 standard.
Respiratory protection:	Wear a filtering face mask (FFP1) in compliance with the UNI EN 149 standard.
Technical and hygiene measures:	Provide a localized ventilation system for aspiration or other devices to keep particle levels in the air below the recommended exposure limits. Adopt suitable measures for the containment of dust emissions into the environment and, where necessary, collect and convey the dust to adequate abatement systems. Do not eat, drink or smoke during use. Wash hands and other areas of the skin exposed to the product after use. Periodically wash work clothing and personal protective equipment to remove contaminants. Handle

	the product in compliance with the rules of good industrial hygiene.

SECTION 9. Physical and chemical properties

9.1. Informazioni sulle proprietà fisiche e chimiche fondamentali

a)	Appearance:	dust
b)	Colour:	beige
c)	Odour:	odorless
d)	Odour threshold:	non disponibile
e)	pH:	12-13
f)	Melting point / freezing point:	not available
g)	Initial boiling point:	not available
h)	Boiling range:	not available
i)	Flash point:	not available
j)	Evaporation rate:	not available
k)	Flammability (solid, gas):	not available
l)	Lower/higher inflammability or explosive limit	not available
m)	Vapour pressure:	not available
n)	Vapour density:	not available
o)	Relative density:	1300 – 1600 kg/m^3
p)	Solubility:	partially soluble, dispersible
q)	Partition coefficient: n-octanol/water:	not available
r)	Auto-ignition temperature:	not available
s)	Decomposition temperature:	not available
t)	Viscosity:	not available
u)	Explosive properties:	not available
v)	Oxidising properties:	not available

9.2. Other information

not available

SECTION 10. Stability and reactivity

10.1. Reactivity
The product reacts hardening by hydration if in contact with water or moisture.
The product reacts dangerously with strong acids.

10.2. Chemical stability
The product remains stable under normal conditions.

10.3. Possibility of hazardous reactions
Contact with strong acids can cause exothermic reactions (temperature rise) with projection of material splashes.

10.4. Conditions to avoid
Storage of the product in damp environments and accidental contact with water compromise the performance quality of the product.

10.5. Incompatible materials
Contact with strong acids can cause exothermic reactions.
In the presence of moisture, the product reacts with aluminum and brass producing hydrogen.

10.6. Hazardous decomposition products
No hazardous decomposition products are known.

SECTION 11. Toxicological information

In the absence of experimental toxicological data on the product itself, the possible dangers of the health product have been assessed on the basis of the properties of the substances contained, according to the criteria set by the reference legislation for classification.
Therefore, consider the concentration of the individual dangerous substances possibly mentioned in section. 3, to assess the toxicological effects deriving from exposure to the product

11.1. Information on toxicological effects

Eye contact: May cause severe irritation (eye ball injury).
Skin contact: May cause irritation and cracking.
Inhalation: May cause respiratory tract irritation and coughing.
Ingestion: In significant quantities, it can cause ulceration of the mouth and esophagus and damage to the digestive system.
Chronic effects: Prolonged exposure to dust, in concentrations above the occupational exposure limits, can cause coughing and breathing difficulties and increase the risk of developing lung diseases. Prolonged and / or repeated contact with the skin may cause sensitization and contact dermatitis.

No studies are available on the toxicological effects of the product, whose hazard classification has been determined based on the calculation methods set forth in EC Regulation No. 1272/2008 (CLP). The following information is available for dangerous constituents ("hydraulic lime").

ACUTE TOXICITY
Product not classified for this endpoint.

LC50 (Inhalation) of the mixture:
Not classified (no relevant component)
LD50 (Oral) of the mixture:
Not classified (no relevant component)
LD50 (dermal) of the mixture:
Not classified (no relevant component)

"Hydraulic lime"	oral: LD50 (ratto) > 2000 mg/kg - not toxic (read-across from "hydrated lime") dermal: LD50 (coniglio) > 2500 mg/kg - not toxic (read-across from "hydrated lime") inhalation: not toxic

SKIN CORROSION / IRRITATION
The product causes skin irritation.

"Hydraulic lime "	skin:	in vivo test on rabbit - skin irritant (read-across from " hydrated lime ")

SERIOUS EYE DAMAGE / IRRITATION
Causes serious eye damage

"Hydraulic lime"	eye:	in vivo test on rabbit - severely irritating to eyes (read-across from " hydrated lime ")

RESPIRATORY OR SKIN SENSITISATION
Sensitising for the skin

"Hydraulic lime"	skin:	non-sensitizing
	respiratory:	non-sensitizing

GERM CELL MUTAGENICITY
Product not classified for this endpoint.

"Hydraulic lime"	Ames test - non-mutagenic (read-across from " hydrated lime ")

CARCINOGENICITY
Product not classified for this endpoint.

"Hydraulic lime"	studies on rats and epidemiological data on humans reveal the lack of any carcinogenic potential for hydraulic lime (read-across from "hydrated lime")
Crystalline silica, quartz	The IARC (International Agency for Research on Cancer) believes that inhaled crystalline silica in the workplace can cause lung cancer in humans. However, it is noted that the carcinogenic effect depends on the characteristics of the silica and on the biological-physical condition of the environment. It seems proven that the risk of developing cancer is limited to people who already suffer from silicosis. At the current state of the studies, the protection of workers against silicosis would be guaranteed by respecting the occupational exposure limit values.

REPRODUCTIVE TOXICITY
Product not classified for this endpoint.

"Hydraulic lime"	mouse studies and epidemiological data on humans reveal the lack of any potential reprotoxic for hydraulic lime (read-across from " hydrated lime ")

SPECIFIC TOXICITY FOR ORGANS TARGET (STOT) - SINGLE EXPOSURE
May irritate the respiratory tract

"Hydraulic lime"	epidemiological data on human beings - respiratory irritant (read-across from "hydrated lime")

SPECIFIC TOXICITY FOR ORGANS TARGET (STOT) - REPEATEDEXPOSURE
Product not classified for this endpoint.

ASPIRATION HAZARD
Product not classified for this endpoint.

SECTION 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity

The product does not show any transformation effects or behaviors such as to cause damage to the environment under normal conditions of use and storage).		
"Hydraulic lime"	fish (fresh water):	LC50 = 50.6 mg/l (96 hours) - not toxic (read-across from " hydrated lime ")
	fish (sea water):	LC50 = 457 mg/l (96 hours) - not toxic (read-across from " hydrated lime ")
	invertebrates (fresh water):	EC50 = 49.1 mg/l (48 hours) - not toxic (read-across from " hydrated lime ")
	invertebrates (sea water):	LC50 = 158 mg/l (96 hours) - not toxic (read-across from "li hydrated lime ")
	invertebrates (sea water):	NOEC = 32 mg/l (14 days) - not toxic (read-across from " hydrated lime ")
	algae (fresh water):	EC50 = 184.57 mg/l (72 hours) - not toxic (read-across from " hydrated lime ")
	algae (sea water):	NOEC = 48 mg/l (72 hours) - not toxic (read-across from "li hydrated lime ")
No classification of the product for toxicity effects on aquatic organisms.		

12.2. Persistence and degradability
Not relevant (inorganic constituents)

12.3. Bioaccumulative potential
Not relevant (inorganic constituents)

12.4. Mobility in soil
Not relevant (inorganic constituents)

12.5. Results of PBT and vPvB assessment
The substances making up the product do not meet the classification criteria as PBT or vPvB as per Annex XIII of the EC Regulation n ° 1907/2006 (REACH).
Based on the available data, the product does not contain PBT or vPvB substances in a percentage higher than 0.1%.

12.6. Other adverse effects
In case of dispersion of large quantities of product in an aquatic environment, the environmental pH may increase, with possible repercussions on the organisms present.

SECTION 13. Disposal considerations

13.1. Metodi di trattamento dei Waste treatment methods
Reuse, if possible. Product residues are to be considered special hazardous waste. The dangerousness of the waste that partly contains this product must be assessed according to the laws in force.
Disposal must be entrusted to an authorized waste management company, in compliance with national and local regulations.
CONTAMINATED PACKAGING
Contaminated packaging must be sent for recovery or disposal in compliance with national waste management regulations.

SECTION 14. Transport information

The product is not classified as hazardous based on the provisions of current legislation concerning the transport of dangerous goods by road (ADR), by rail (RID), by sea (IMDG Code) and by air (IATA). During transport, keep the preparation in closed containers in order to avoid its dispersion.

14.1. UN number
Not applicable.

14.2. UN proper shipping name
Not applicable.

14.3. Transport hazard class(es)
Not applicable.

14.4. Packing group
Not applicable.

14.5. Environmental hazards
Not applicable.

14.6. Special precautions for user
Not applicable.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
Not applicable.

SECTION 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
The product does not contain substances of very high concern (SVHC) which are candidates for authorization pursuant to EC Regulation No. 1907/2006 (REACH).

Seveso Category - Directive 2012/18/EC:

None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Substances in Candidate List (Art. 59 REACH)
On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisation (Annex XIV REACH)
None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:
None

Substances subject to the Rotterdam Convention:
None

Substances subject to the Stockholm Convention:
None

Healthcare controls
Workers exposed to this hazardous chemical agent must be subjected to health surveillance carried out in accordance with the provisions of art. 41 of Legislative Decree 81 of 9 April 2008 unless the risk to the safety and health of the worker has been assessed as irrelevant, in accordance with the provisions of art. 224 paragraph 2

15.2. Valutazione della sicurezza chimica
A chemical safety assessment has been carried out for the following substances: natural hydraulic lime.

SEZIONE 16. Altre informazioni

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Eye Dam. 1	Serious eye damage, category 1
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Skin Sens. 1B	Skin sensitization, category 1B
H318	Causes serious eye damage.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H317	May cause an allergic skin reaction.

Product classification criteria:
Calculation methods set out in Annex I of Regulation (EC) n. 1272/2008.

LEGEND:
- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization

- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (Germany).

GENERAL BIBLIOGRAPHY:

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
4. Regulation (EU) 2015/830 of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
12. Regulation (EU) 2016/1179 (IX Atp. CLP)
13. Regulation (EU) 2017/776 (X Atp. CLP)
- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:
The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.
This document must not be regarded as a guarantee on any specific product property.
The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.
Provide appointed staff with adequate training on how to use chemical products.

Note:

The information contained in this safety data sheet is based on our knowledge at the date of its publication. The information is provided for the sole purpose of facilitating use, storage, transport and disposal and should not be considered a specific quality guarantee. The user must make sure of the suitability and completeness of the information in relation to his particular use of the product.