Material Safety Data Sheet

SECTION 1. Identification of Substance/Preparation & Company/Undertaking

1.1. Product identifier

Code:	**CALCIUM-CARBONATE AGGLOMERATE 2/4**
Name:	GRANULAR LIMESTONE FILLER

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

Description/Use	**PH Correction.**

1.3. Details of the supplier of the safety data sheet

Company name:	EDILQUATTRO SRL
Address:	Via del Canneto, 53
Town and Country:	25010 Borgosatollo (BS) Italy T. +39 030 2702372 F. +39 030 2703192
e-mail of the competent person:	laboratorio@bernardelligroup.com
Person responsible for the material safety data sheet:	Salvatore Grimaldi
Person responsible for placing on the market:	EDILQUATTRO SRL

1.4. Emergency telephone number

For urgent information, contact	**Company: (+39) 030 2702372 (Opening hours 8.30 – 12.30 / 13.30 – 17.30)** **Poison Centre at Ca Granda Hospital – Niguarda (MI): (+39) 02 66101029** **European emergency number: 112**

SECTION 2. Hazard Identification.

The product must be classified according to the method of calculation stated in the general directive of the Community relating to the classification of mixtures in its last version into force.

2.1. Classification of the substance or mixture.

The product is not classified as hazardous pursuant to the provisions set forth in Directives 67/548/EEC and 1999/45/EC and/or EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements).

2.1.1. Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Classification and hazard statements:
None

2.1.2. Directives 67/548/EEC and 1999/45/EC and subsequent amendments and supplements.

Danger symbols:
None
Nature of special risks (R phrases):
None
Precautionary statements (S phrases):
None

2.2. Label elements .

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements .

Hazard pictograms:
None
Hazard statements:
None
Precautionary statements:
None

2.3. Other hazards. The dust derived from the manipulation of the product may damage the respiratory tract. The repeated inhalation of high quantities of dust increases the risk of pulmonary diseases.

SEZIONE 3. Composition/information on ingredients.

3.1. Substances. The product derives from the grinding of carbonate rocks.

3.2. Mixtures. Information not relevant.

Contains:

Identification.	**Conc. %.**	**Classification 67/548/EEC.**	**Classification 1272/2008 (CLP).**
Calcium Carbonate CAS. 471-34-1 INDEX. 207-439-9	98	Substance with a Community workplace exposure limit	

Note: Upper value of the range excluded.
The full wording of the risk (R) and hazard (H) phrases is given in section 16 of the sheet.
T+ = Very Toxic (T+), T = Toxic (T), Xn = Harmful (Xn), C = Corrosive (C), Xi = Irritant (Xi), O = Oxidising (O), E = Explosive (E), F+ = Extremely flammable (F+), F = Highly flammable (F), N = Dangerous to the environment (N)

SECTION 4. First aid measures.

4.1. Description of first aid measures. Not specifically necessary. Nevertheless, observance of good industrial hygiene is recommended.

4.2. Most important symptoms and effects, both acute and delayed. No episodes of damage have been reported during regular use.

4.3. Indication of any immediate medical attention and special treatment needed. Symptomatic treatment

SECTION 5. Fire-fighting measures.

5.1. Extinguishing media.

SUITABLE EXTINGUISHING MEDIA
The material is non-flammable, all kind of extinction equipment could be used.
The extinction equipment should be of the conventional kind: carbon dioxide, foam, powder and nebulised water.
UNSUITABLE EXTINGUISHING MEDIA
None in particular.

5.2. Special hazards arising from the substance or mixture.
The material is neither flammable nor explosive. It does not foment the combustion of other materials

5.3. Advice for fire-fighters.

GENERAL INFORMATION
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.
EQUIPMENT
Normal fire-fighting equipment, like open-circuit compressed air breathing apparatus (EN 137), fire suit (EN 469), flame retardant gloves (EN 659) and fireman's boots (HO A29 or A30).

SECTION 6. Accidental release measures.

6.1. Personal precautions, protective equipment and emergency procedures. Use breathing equipment if fumes or powders are released into the air. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions. The product must not penetrate the sewers, surface water or ground water.

6.3. Methods and material for containment and cleaning up. Confine using earth or inert material. Collect as much material as possible and eliminate the rest using jets of water. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

SECTION 7. Handling and storage.

HANDLING
Prevent diffusion of fine particles and avoid contact with eyes and skin. If this is not possible, use required personal protective equipment. (See point 8)
Loads exceeding 25kg should not be handled manually but with the aid of a mechanical device. Our bags weigh no more than 25 kg each; it is advisable, however, to handle them according to appropriate work procedures. (see Decree 81/2008 – Consolidation Act on Health and Safety in the Workplace).
STORAGE INSTRUCTIONS
Store the material in unopened silos, preventing the formation of dust. The material in unopened bags and with intact packaging (pallet) must be kept in cool and not humid places, to avoid the accidental breakage of the packaging which may cause the dispersion of dust in the air.
Keep the preparation out of reach of children, separated from acids and foodstuffs, in suitable closed containers (bags), in a cool, dry unventilated place to preserve the technical characteristics, avoiding, in any case, the dispersion of dust.

7.1. Precautions for safe handling. Before handling the product, consult all the other sections of this material safety data sheet. Prevent dispersion of the product in the environment. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities. Keep the product in clearly marked containers. Keep the containers away from any incompatible materials, referring to section 10.

7.3. Specific end use(s). Information not available.

SECTION 8. Exposure controls/personal protection.

8.1. Control parameters.
Limits of exposure to respirable FCS (Free Crystalline Silica): TLV TWA: 0,025 mg/m^3 (Respirable fraction).
Limits of exposure to respirable Calcium Carbonate: TLV TWA: 1 mg/m^3 (Respirable fraction).

8.2. Exposure controls.
As the use of adequate technical equipment must always take priority over personal protection equipment, make sure that the workplace is well aired with an efficient ventilation system. Personal protection equipment must comply with the rules in force indicated below.

HAND PROTECTION

Protect hands with category II (ref. Directive 89/686/EEC and standard EN 374) work gloves, such as those in PVC, neoprene, nitryl or equivalent.
The following should be considered when choosing the material of the work gloves: degradation, breakage times and permeation. The resistance of the work gloves to preparations should be checked before use, as it can be unpredictable. Wear of the gloves depends on the duration of exposure.

EYE PROTECTION

Wear a visor-view hood or protective airtight goggles (ref. standard EN 166).

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (ref. Directive 89/686/EEC and standard EN 344). Wash body with soap and water after removing overalls.

RESPIRATORY PROTECTION

If the threshold value (if available) for one or more of the substances present in the preparation for daily exposure in the workplace or to a fraction established by the company's prevention and protection service is exceeded, wear an FFP3 type half-mask (ref. standard EN 141/EN 143).
The use of respiratory tract protection equipment, such as masks like that indicated above, is necessary to reduce the worker's exposure in the absence of technical measures. The protection provided by masks is in any case limited.
If the substance in question is odourless or its olfactory threshold is higher than the relative exposure limit and in the event of an emergency, or when exposure levels are unknown or the concentration of oxygen in the workplace is less than 17% in volume, wear self-contained, open-circuit compressed air breathing apparatus (ref. standard EN 137) or fresh air hose breathing apparatus for use with full face mask, half mask or mouthpiece (ref. standard EN 138).
An emergency eye washing and shower system must be provided.

ENVIRONMENTAL EXPOSURE CONTROLS.
The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties.

Appearance	Dust	Lower explosive limit	Not available
Colour	Grey	Upper explosive limit.	Not available
Odour	Odourless	Vapour pressure.	Not available
Odour threshold	Not available.	Apparent density	Not available
pH. (saturated solution)	8 – 9	Relative density.	2,700 Kg/l
Melting point / freezing point.	825 °C	Solubility	< 0,014 g/l a 20 °C
Initial boiling point.	Not applicable.	Partition coefficient: n-octanol/water:	Not available
Boiling range.	Not available.	Auto-ignition temperature.	Not available
Flashpoint.	Not applicable.	Decomposition temperature.	Not available
Evaporation rate	Not available.	Viscosity	Not available
Flammability of solids and gases	Not available	Explosive properties	Not available
Lower inflammability limit.	Not available	Oxidising properties	Not available
Upper inflammability limit.	Not available	VOC (CE)	0,0%

9.2. Other information. Information not available.

SECTION 10. Stability and reactivity.

10.1. Reactivity. There are no special risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability. The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions. No hazardous reactions foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid. None specific. In any case, take all the usual precautions for chemical products.

10.5. Incompatible materials. Information not available.

10.6. Hazardous decomposition products. Information not available.

SEZIONE 11. Toxicological information.

11.1. Information on toxicological effects.

Inhalation: YES
Ingestion: YES
Contact: NO

Skin corrosion/Irritation:
Information not available.

Sensitizing potential:
No reactions foreseeable in normal conditions

Carcinogenicity:
Information not available.

Mutagenesis:
No reactions foreseeable in normal conditions

Teratogenesis:
No reactions foreseeable in normal conditions

According to the Reg. 453/2010/EC the following classification criterias have to be considered N.A.:

1) acute toxicity
2) skin corrosion/irritation
3) serious eye damage/irritation
4) respiratory or skin sensitisation
5) germ cell mutagenicity
6) carcinogenicity
7) reproductive toxicity
8) STOT-single exposure
9) STOT-repeated exposure
10) aspiration hazard

SEZIONE 12. Ecological information.

12.1. Toxicity. The finished product has not been tested. The declaration complies with the characteristics of each component.

12.2. Persistence and degradability. Inorganic product that cannot be eliminated in water with biological purification.

12.3. Bioaccumulative potential. Does not accumulate in living organisms.

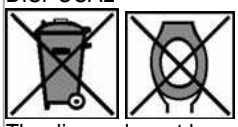
12.4. Mobility in soil. Insoluble.

12.5. Results of PBT and vPvB assessment. On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0.1%.

12.6. Other adverse effects. Information not available.

SEZIONE 13. Disposal considerations.

DISPOSAL



The disposal must be arranged in compliance with national waste management regulations. Do not empty into drains or dispose of as urban waste.

European Waste Catalogue
17 09 04 Mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03
15 01 01 Paper and cardboard packaging

13.1. Waste treatment methods.
PACKAGING
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information.

The product is not classified as dangerous by current rules concerning the transport of dangerous goods: by road (ADR); by rail (RID); by air (ICAO / IATA); and by sea (IMDG).

SECTION 15. Regulatory information.

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture.

Seveso category. None.
Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006. None.
Substances in Candidate List (Art. 59 REACH). None.
Substances subject to authorisation (Annex XIV REACH). None.
Substances subject to exportation reporting pursuant to (EC) Reg. 689/2008: None.
Substances subject to the Rotterdam Convention: None.
Substances subject to the Stockholm Convention: None.
Healthcare controls.
Workers exposed to this chemical agent must undergo health checks in accordance with the provisions of Art. 41 of Legislative Decree 81 of 9 April 2008 unless the risk to the health and safety of the worker has been assessed as irrelevant pursuant to Art. 224 (2).

15.2. Chemical safety assessment. No chemical safety assessment has been processed for the mixture and the substances it contains.

SECTION 16. Other information.

LEGENDA:
- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Number of the Chemical Abstract Service
- 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 Harmonised System of classification and labelling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilisation 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 based on the 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 based on the REACH Regulation.

GENERAL BIBLIOGRAPHY:

1. Directive 1999/45/EC and following amendments
2. Directive 67/548/EEC and following amendments and adjustments
3. Regulation (EC) 1907/2006 (REACH) of the European Parliament
4. Regulation (EC) 1272/2008 (CLP) of the European Parliament
5. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
6. Regulation (EC) 453/2010 of the European Parliament
7. Regulation (EC) 286/2011 (II Atp. CLP) of the European Parliament
8. The Merck Index. Ed. 10
9. Handling Chemical Safety
10. Niosh - Registry of Toxic Effects of Chemical Substances
11. INRS - Fiche Toxicologique
12. Patty - Industrial Hygiene and Toxicology
13. N.I. Sax - Dangerous properties of Industrial Materials-7 Ed., 1989
14. ECHA website

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.

Changes to previous review:
The following sections were modified:
02 / 03 / 04 / 05 / 06 / 08 / 09 / 10 / 11 / 16.