

COMFORT LIME

Safety Data Sheet

in accordance with COMMISSION REGULATION (EU) 2020/878

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier:

Product name:	COMFORT LIME
Product code:	07130001
UFI:	E5J1-V0QU-600T-RE12
Other means of identification:	Not relevant

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

Identified uses: Adhesive – Thermal levelling compound based on hydraulic lime.

Uses advised against: Any use not specified in this section or in section 7.3.

1.3 Details of the supplier of the safety data sheet:

AZICHEM SRL

Via G. Gentile 16/A

46044 Goito (Mantova) – Italy

Tel.: +39 0376 604185

E-mail of the competent person responsible for the safety data sheet: laboratorio@azichem.com

1.4 Emergency telephone number:

Poison Control Centre – Bambino Gesù Paediatric Hospital ROME: 06 68593726

Foggia University Hospital FOGGIA: 800 183459

"A. Cardarelli" Hospital NAPLES: 081 5453333

"Umberto I" Polyclinic ROME: 06 49978000

"A. Gemelli" Polyclinic ROME: 06 3054343

"Careggi" Hospital – Medical Toxicology Unit FLORENCE: 055 7947819

National Toxicological Information Centre PAVIA: 0382 24444

Niguarda Ca' Granda Hospital MILAN: 02 66101029

Papa Giovanni XXIII Hospital BERGAMO: 800 883300

Verona Integrated Hospital VERONA: 800 011858

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

Regulation No. 1272/2008 (CLP):

In accordance with Regulation No. 1272/2008 (CLP), the product is classified as hazardous:

- Skin Corr. 1: H314 – Causes severe skin burns and eye damage.
- Eye Dam. 1: H318 – Causes serious eye damage.
- STOT SE 3: H335 – May cause respiratory irritation.
- Skin Sens. 1: H317 – May cause an allergic skin reaction.

2.2 Label elements:

Labelling under Regulation No. 1272/2008 (CLP):

Hazard pictograms: GHS05 (corrosion), GHS07 (exclamation mark)

Signal word: Danger

Hazard statements:

H314 – Causes severe skin burns and eye damage.

H335 – May cause respiratory irritation.

H317 – May cause an allergic skin reaction.

Precautionary statements:

P260 – Do not breathe dust/fume/gas/mist/vapours/spray.

P264 – Wash thoroughly after handling.

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P280 – Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 – IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

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.

Supplemental information:

Contains: Portland cement clinker, Flue dust Portland cement.

2.3 Other hazards:

Based on available data, the product does not contain PBT or vPvB substances at concentrations $\geq 0.1\%$.

The product does not contain substances with endocrine-disrupting properties at concentrations $\geq 0.1\%$.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances:

Not relevant

3.2 Mixtures:

Chemical description: Powder mixture based on hydraulic lime.

Components:

In accordance with Annex II of Regulation (EC) No. 1907/2006 (point 3), the product contains:

Identification	Chemical name / Classification / Concentration
CAS: 14808-60-7 EC: 238-878-4 Index: — REACH: —	Quartz (granular) <i>Regulation 1272/2008</i> Substance with a Community workplace exposure limit. Concentration: $27 \leq x < 28.5\%$
CAS: 65997-15-1 EC: 266-043-4 Index: — REACH: Exempt (Annex V.10)	Portland cement clinker <i>Regulation 1272/2008</i> Eye Dam. 1: H318; Skin Irrit. 2: H315; STOT SE 3: H335; Skin Sens. 1B: H317 – Danger Concentration: $16.5 \leq x < 18\%$
CAS: 65997-15-1 EC: 266-043-4 Index: — REACH: Exempt (Annex V.10)	Portland cement clinker <i>Regulation 1272/2008</i> Eye Dam. 1: H318; Skin Irrit. 2: H315; STOT SE 3: H335; Skin Sens. 1B: H317 – Danger Concentration: $7 \leq x < 8\%$
CAS: 68475-76-3 EC: 270-659-9 Index: — REACH: 01-2119486767-17-XXXX	Flue dust, Portland cement <i>Regulation 1272/2008</i> Eye Dam. 1: H318; Skin Irrit. 2: H315; STOT SE 3: H335; Skin Sens. 1: H317 – Danger Concentration: $2 \leq x < 2.5\%$

For the full text of the hazard statements (H phrases), see section 16.

Specific notes for Portland cement clinker:

(*) The water-soluble chromium VI level, determined according to EN 196-10, is below 0.0002% of the total dry weight of the cement ready for use, the limit imposed by restriction No. 47 – Annex XVII REACH.

(**) Cement clinker is a substance exempted from registration under Article 2.7 (b) and Annex V.10 of REACH.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

In case of doubt or if symptoms appear, contact a doctor and show this safety data sheet. In the event of more severe symptoms, call 112 (or local emergency number).

On inhalation:

Remove the affected person to fresh air, away from the place of the incident. In case of respiratory symptoms (cough, dyspnoea, breathing difficulties, asthma) keep the casualty in a position comfortable for breathing. Administer oxygen if necessary. If breathing stops, perform artificial respiration. Consult a doctor immediately.

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On skin contact:

Take off all contaminated clothing immediately. Wash immediately and abundantly with running water (and soap if possible). Consult a doctor immediately. Avoid further contact with contaminated clothing.

On eye contact:

Remove contact lenses, if present and easy to do. Wash immediately and abundantly with water for at least 15 minutes, holding the eyelids well open. Consult a doctor immediately.

On ingestion:

Do not induce vomiting unless expressly authorised by a doctor. Rinse the mouth with running water. Do not give anything by mouth if the casualty is unconscious. Consult a doctor immediately.

Protection of first-aiders:

It is good practice for the first-aiders to wear personal protective equipment appropriate to the hazardousness of the substance, the route of exposure and the extent of contamination (see section 8).

4.2 Most important symptoms and effects, both acute and delayed:

No specific information on symptoms and effects caused by the product is known.

Delayed effects: based on currently available information, no cases of delayed effects following exposure to this product are known.

4.3 Indication of any immediate medical attention and special treatment needed:

Immediately call a POISON CENTER or doctor. Means to be available at the workplace: running water for skin and eye washing.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

Carbon dioxide, foam, powder and water spray.

Unsuitable extinguishing media:

None in particular.

5.2 Special hazards arising from the substance or mixture:

Avoid breathing combustion products. Dust dispersed in the air in sufficient concentrations, in the presence of an ignition source, may form explosive mixtures with air.

5.3 Advice for firefighters:

Cool the containers with water jets to avoid product decomposition and the development of substances potentially hazardous to health. Wear full firefighting protective equipment. Collect extinguishing waters – they must not be discharged into sewers.

Equipment: open-circuit self-contained breathing apparatus (EN 137), fire-protective suit (EN 469), fire-protective gloves (EN 659) and firefighter boots (HO A29 or A30).

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Avoid the formation of dust by spraying the product with water if there are no contraindications. Wear suitable personal protective equipment (see section 8) to prevent contamination of skin, eyes and personal clothing. Keep unprotected persons away.

6.2 Environmental precautions:

Prevent the product from entering sewers, surface waters or groundwater.

6.3 Methods and material for containment and cleaning up:

Collect the spilled product and place it in suitable containers for recovery or disposal. Eliminate the residue with water jets if there are no contraindications. Provide sufficient ventilation of the area affected by the leak. Disposal of the contaminated material must be carried out in accordance with point 13.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

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7.1 Precautions for safe handling:

Handle the product after consulting all other sections of this safety data sheet. Avoid dispersion of the product into the environment. Do not eat, drink or smoke during use. Remove contaminated clothing and personal protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities:

Store only in the original container. Keep containers closed, in a well-ventilated area, away from direct sunlight. Keep containers away from incompatible materials (see section 10).

Cement and mixtures containing cement must be stored in waterproof, dry (with minimal internal condensation), clean and contamination-protected conditions.

Engulfment hazard: cement may cake or stick to the walls of the confined space in which it is stored; it may collapse, slip or fall unexpectedly. To prevent engulfment or suffocation, do not enter confined spaces (silos, containers, bulk transport trucks, etc.) without taking appropriate safety measures.

Store the mixture away from acids, in suitable closed containers (storage silos and bags), in a cool, dry place, avoiding any dispersion of dust.

7.3 Specific end use(s):

Information not available. Apart from the indications already specified, no special recommendations are necessary.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Regulatory references: Italian Legislative Decree No. 81 of 9 April 2008; Directives (EU) 2022/431, 2019/1831, 2019/130, 2019/983, 2017/2398, 2017/164, 2009/161/EU, 2006/15/EC, 2004/37/EC, 2000/39/EC, 98/24/EC, 91/322/EEC; ACGIH 2025.

Occupational exposure limit values (TWA 8h):

Substance	Type / State	TWA 8h (mg/m ³)	Notes
Quartz (granular)	OEL – ITA	0.1	Respirable fraction
Quartz (granular)	OEL – EU	0.1	Respirable fraction
Quartz (granular)	ACGIH	0.025	Respirable fraction
Portland cement clinker	ACGIH	1	Respirable fraction – Note e

DNEL / PNEC – Flue dust, Portland cement:

Exposure route	Workers – Long-term systemic	Workers – Acute local	Consumers – Long-term systemic
Inhalation	0.84 mg/m ³	4 mg/m ³	0.84 mg/m ³
Dermal	LOW	LOW	LOW

PNEC – Flue dust, Portland cement:

Compartment	Value
Fresh water	282 µg/L
Marine water	28 µg/L
Sediment (fresh water)	0.875 mg/kg/d
Sediment (marine water)	0.088 mg/kg/d
STP microorganisms	6 mg/L
Terrestrial compartment	5 mg/kg/d

It is recommended to consider in the risk assessment process the ACGIH limit values for particulates not otherwise classified (PNOC respirable fraction: 3 mg/m³; PNOC inhalable fraction: 10 mg/m³).

8.2 Exposure controls:

Adequate technical measures should always take priority over personal protective equipment. Ensure good ventilation in the workplace through effective local extraction. Provide an emergency shower with eyewash station.

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A. Hand protection:

Penetration-resistant work gloves complying with EN 374. Latex gloves may give rise to sensitisation phenomena.

B. Skin protection:

Long-sleeved work clothing and category III professional safety footwear (Reg. 2016/425, EN ISO 20344). Wash with soap and water after removing protective clothing.

C. Eye protection:

Hooded face shield or protective face shield combined with sealed goggles (EN ISO 16321).

D. Respiratory protection:

Type P filtering face mask (class 1, 2 or 3 according to risk assessment – EN 149).

Environmental exposure controls:

Emissions from production processes, including those from ventilation equipment, must be controlled to comply with environmental protection legislation.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Physical state at 20 °C:	Powder
Appearance:	Powder
Colour:	White
Odour:	Not available
Odour threshold:	Not available
pH:	12 – 13
Melting/freezing point:	Not available
Initial boiling point:	Not available
Flammability:	Not available
Lower explosive limit:	Not available
Upper explosive limit:	Not available
Flash point:	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Vapour pressure:	Not available
Relative vapour density:	Not available
Relative density:	1.2 – 1.5
Solubility in water:	Not available
n-octanol/water partition coefficient:	Not available
Kinematic viscosity:	Not available
Particle characteristics:	Not available

9.2 Other information:

9.2.1 Information regarding physical hazard classes: information not available.

9.2.2 Other safety characteristics: information not available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

There are no particular reaction hazards with other substances under normal conditions of use. Quartz (granular) is stable under normal conditions of use and storage.

10.2 Chemical stability:

The product is stable under normal conditions of use and storage.

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Wet cement is alkaline and incompatible with acids, ammonium salts, aluminium and other non-noble metals. Cement in contact with hydrofluoric acid decomposes producing corrosive silicon tetrafluoride gas. Cement reacts with water to form silicates and calcium hydroxide. The silicates in cement react with strong oxidants such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride and oxygen difluoride.

10.3 Possibility of hazardous reactions:

Dusts are potentially explosive in mixture with air.

10.4 Conditions to avoid:

Avoid dust accumulation in the environment. Avoid humidity conditions and contact with incompatible materials.

10.5 Incompatible materials:

Strong acids, ammonium salts, aluminium and other non-noble metals. In contact with aluminium powder, wet cement causes the formation of hydrogen.

10.6 Hazardous decomposition products:

Information not available.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No. 1272/2008:

In the absence of experimental toxicological data on the product itself, possible hazards to health have been assessed on the basis of the properties of the substances contained.

Routes of exposure (Portland cement clinker):

In professional environments the main routes of exposure are inhalation and skin or eye contact.

Acute toxicity:

Substance	Route	Value	Species / Notes
Quartz (granular)	Dermal LD50	> 2000 mg/kg	Rat
Quartz (granular)	Oral LD50	> 2000 mg/kg	Rat
Flue dust, Portland cement	Dermal LD50	> 2000 mg/kg	Rat (OECD 402)
Flue dust, Portland cement	Oral LD50	> 1848 mg/kg	Rat (OECD 422)
Flue dust, Portland cement	Inhalation LC50	> 6.04 mg/L/4h	Rat (OECD 436)

Skin corrosion/irritation:

Corrosive to skin (classified on the basis of experimental pH value). Cement in contact with wet skin can cause thickening, cracking and skin fissures; prolonged contact in combination with existing abrasions can cause severe burns.

Serious eye damage/eye irritation:

Causes serious eye damage. Clinker causes a set of heterogeneous effects on the cornea (calculated irritation index = 128). Direct contact with dry cement or with projections of wet cement can cause effects ranging from moderate eye irritation to chemical burns and blindness.

Respiratory or skin sensitisation:

Skin sensitiser. Based on the weight of evidence of available data, the substances contained are classified as skin sensitisers.

Germ cell mutagenicity:

Does not meet the classification criteria. In vivo test (OECD 489) on rat, inhalation route: negative.

Carcinogenicity:

Does not meet the classification criteria. The epidemiological literature does not support the identification of Portland cement as a suspected human carcinogen (ACGIH A4 – Flue dust: negative data).

Reproductive toxicity:

Does not meet the classification criteria. Flue dust, Portland cement (OECD 422): negative, NOAEC = 1010 mg/kg b.w./day; NOAEL $\geq$ 1010 – $\leq$ 1216 mg/kg b.w./day.

STOT – single exposure:

May cause respiratory irritation. Cement dust may cause coughing, sneezing and shortness of breath in case of exposure above professional limits. Target organs: lung, bronchi, trachea. Route of exposure: inhalation.

STOT – repeated exposure:

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Does not meet the classification criteria.

Aspiration hazard:

Does not meet the classification criteria. No data are available.

11.2 Information on other hazards:

Endocrine-disrupting properties: the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with effects on human health.

SECTION 12: ECOLOGICAL INFORMATION

Use according to good working practices, avoiding dispersing the product into the environment. Notify the competent authorities if the product reaches watercourses or contaminates soil or vegetation.

12.1 Toxicity:

Cement is not hazardous to the environment. Adding large quantities of cement to water can cause an increase in pH and may be toxic to aquatic life under certain circumstances.

Flue dust, Portland cement – Acute and chronic toxicity:

Endpoint	Value	Species	Method
EC50 – Algae	22.4 mg/L (72 h)	Desmodesmus subspicatus	OECD 201
NOEC – Fish	11.1 mg/L (96 h)	Danio rerio	OECD 203
NOEC – Crustaceans	100 mg/L (48 h)	Daphnia magna	OECD 202
EL10 – Crustaceans	68.2 mg/L (21 days)	Daphnia magna	OECD 211

12.2 Persistence and degradability:

Portland cement clinker is an inorganic substance; therefore biodegradability tests are not applicable.

12.3 Bioaccumulative potential:

Portland cement clinker is inorganic; therefore bioaccumulation tests are not applicable.

12.4 Mobility in soil:

Dry cement is chemically stable and non-volatile. It may diffuse during handling in the form of dust.

12.5 Results of PBT and vPvB assessment:

The product does not contain PBT or vPvB substances at concentrations $\geq 0.1\%$.

12.6 Endocrine-disrupting properties:

The product does not contain substances listed as potential or suspected endocrine disruptors with effects on the environment.

12.7 Other adverse effects:

Information not available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Re-use if possible. Product residues are to be considered hazardous special waste. The hazardousness of waste partially containing this product must be assessed in accordance with current legislation.

Disposal must be entrusted to a company authorised for waste management, in accordance with national and possibly local regulations.

Contaminated packaging: contaminated packaging must be sent for recovery or disposal in accordance with national waste management regulations.

Reference legislation: Directive 2008/98/EC; Decision 2014/955/EU; Regulation (EU) No. 1357/2014; Italian Legislative Decree 152/2006; Italian Legislative Decree 205/2010.

SECTION 14: TRANSPORT INFORMATION

The product is not to be considered hazardous under the provisions in force regarding the transport of dangerous goods by road (ADR), by rail (RID), by sea (IMDG Code) and by air (IATA).

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14.1 UN number or ID 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 Maritime transport in bulk according to IMO instruments:	Information not relevant

SECTION 15: REGULATORY INFORMATION

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

Seveso category – Directive 2012/18/EU: None.

Restrictions Annex XVII of Regulation (EC) 1907/2006 (REACH): Point 75 – substances contained.

Regulation (EU) 2019/1148 (explosive precursors): not applicable.

Substances on Candidate List (Art. 59 REACH): based on available data, the product does not contain SVHC substances at concentrations $\geq 0.1\%$.

Substances subject to authorisation (Annex XIV REACH): none.

Regulation (EU) 649/2012 (export/import of hazardous chemicals): no substances.

Rotterdam Convention: no substances.

Stockholm Convention / Regulation (EU) 2019/1021 on persistent organic pollutants: no substances.

Health surveillance:

Workers exposed to this chemical agent hazardous to health must be subject to health surveillance under Article 41 of Italian Legislative Decree 81/2008, unless the risk to the worker's safety and health has been assessed as irrelevant (Article 224, paragraph 2).

15.2 Chemical safety assessment:

No chemical safety assessment has been carried out for the mixture or for the substances indicated in section 3.

SECTION 16: OTHER INFORMATION

This safety data sheet has been developed in accordance with Annex II of Regulation (EC) No. 1907/2006 – Commission Regulation (EU) 2020/878.

Changes from the previous revision (Rev. 3 of 20/10/2025):

General update of Section 2 (labelling), Section 3 (composition), Section 8 (control parameters) and Section 15 (regulatory references).

Texts of H phrases mentioned in sections 2 and 3:

Skin Corr. 1 – Skin corrosion, category 1

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. 1 – Skin sensitisation, category 1

Skin Sens. 1B – Skin sensitisation, category 1B

H314 – Causes severe skin burns and eye damage.

H315 – Causes skin irritation.

H317 – May cause an allergic skin reaction.

H318 – Causes serious eye damage.

H335 – May cause respiratory irritation.

Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road – RID: rail transport regulations – IMDG: International Maritime Dangerous Goods Code – IATA: International Air Transport Association –

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CLP: Reg. (EC) 1272/2008 – REACH: Reg. (EC) 1907/2006 – DNEL: Derived No-Effect Level – PNEC: Predicted No-Effect Concentration – LD50: lethal dose 50% – LC50: lethal concentration 50% – EC50: effective concentration 50% – NOEC: no observed effect concentration – TWA: time-weighted average exposure limit – STEL: short-term exposure limit – PBT: persistent, bioaccumulative and toxic – vPvB: very persistent and very bioaccumulative – UFI: unique formula identifier – IARC: International Agency for Research on Cancer.

Main literature sources:

<http://echa.europa.eu>

<http://eur-lex.europa.eu>

Regulation (EC) 1907/2006 (REACH) and subsequent amendments.

Training advice:

A minimum level of training in occupational risk prevention is recommended for personnel handling this product, in order to facilitate the understanding and interpretation of this safety data sheet, as well as the product labelling.

The information contained in this Safety Data Sheet is based on sources, technical knowledge and legislation in force at European and national level, but its accuracy cannot be guaranteed. This information cannot be considered as a guarantee of the properties of the product; it is simply a description regarding safety requirements. The methodology and working conditions of the users of this product are outside our knowledge and control, and it remains the ultimate responsibility of the user to take the necessary measures to comply with legislative requirements regarding the handling, storage, use and disposal of chemical products.

– END OF SAFETY DATA SHEET –

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