

Version: 1 / EN Issue date: 2023.04

1 SECTION 1: DESIGNATION OF THE MIXTURE AND THE COMPANY:

1.1 Product identifier

Product name: Type 2 concrete admixture for concrete according to ETA 22/0396 "Cyment L".

1.2 Relevant identified uses of the mixture and uses advised against

Additive for the production of concrete.

1.2.1 Relevant identified uses

The fabric is intended for:

- industrial application
- industrial application
- in research, analytics and scientific education

1.2.2 Uses advised against

None

1.3 Details of the supplier providing the safety data sheet

Manufacturer / Supplier SUH
SHU Minerals Hungaria Kft.
Achim Andras u. 2/a
H-9200 Mosonmagyaróvár
HU28988274

Email of the person responsible for the MSDS: office@sala.eu.com

Informing department:
Marton Szobo
SHU Minerals Hungaria Kft.
9200 Mosonmagyaróvár
+36 30 449 5456

1.4 Emergency number

European emergency number: 112

2 SECTION 2: POTENTIAL HAZARDS

2.1 Classification of the mixture

Cyment L is not subject to labeling according to Directive 67/548/EEC on the classification, packaging and labeling of dangerous substances (adapted by Directive 2009/2/EC).

2.2 Labeling elements

The mixture is not subject to labeling according to Directive 67/548/EEC.

2.3 Other hazards

None.

3 SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures

Type 2 concrete admixture for concrete according to ETA 22/0396; contains no hazardous components.

4 SECTION 4: FIRST AID MEASURES

4.1 Description of the first aid measures

General notes

No special personal protective equipment is required for first responders.

Skin contact

Carefully and gently wipe contaminated skin surfaces to remove all product residues. Immediately wash affected area with plenty of water. Remove contaminated clothing. Consult a doctor in case of skin complaints.

Cyment L is not subject to labeling according to Directive 67/548/EEC on the classification, packaging and labeling of dangerous substances (adapted by Directive 2009/2/EC).

Eye contact

Do not rub eye. If necessary, remove contact lens and immediately rinse the eye under running water for at least 20 minutes with the eyelid open to remove all particles. If possible, use isotonic eye rinsing solution (0.9% NaCl). Consult occupational physician or ophthalmologist.

Inhale

Provide fresh air. Dust from throat and nasal area should be removed quickly. Consult a physician if symptoms such as malaise, coughing or persistent irritation occur.

Ingestion

Do not induce vomiting. If conscious, rinse mouth and drink plenty of water. Consult physician or poison control center.

4.2 Most important symptoms and effects, acute or delayed

Mechanical skin and eye irritation may occur.

4.3 Indications for immediate medical help or special treatment

If a physician is consulted, please present this safety data sheet. The instructions in section 4.1 must be observed.

Notes for the doctor

No long-term effect known!

5 SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing agent

Cyment L is not combustible. Match the extinguishing agent to the surroundings.

5.2 Special hazards arising from the mixture

None.

5.3 Advice for fire fighting

No special measures required, as the material does not present a fire-relevant hazard.

6 SECTION 6: MEASURES IN CASE OF ACCIDENTAL RELEASE

6.1 Personal precautions, protective equipment and procedures to be used in case of emergency

6.1.1 Personnel not trained for emergencies

Ensure sufficient ventilation. Avoid dust formation. Keep unprotected persons away. Wear protective clothing as described in section 8. Follow the instructions for safe handling as described in section 7.

6.1.2 Task forces

Ensure sufficient ventilation. Avoid dust formation. Keep unprotected persons away. Emergency plans are not required. However, respiratory protection is required in case of high dust exposure.

6.2 Environmental protection measures

Any dust formation must be avoided, do not allow the material to enter the sewage system, surface water or ground water.

6.3 Methods and material for retention and cleaning

In any case, avoid dust formation. Keep material as dry as possible. Pick up mechanically (dry). Use vacuum cleaner or shovel into bags. Pick up spilled mixture and use if possible. For cleaning, use dry methods if possible, such as vacuum aspiration (portable equipment with high-efficiency filtration systems (EPA and HEPA filters, EN 1822-1:2011) or equivalent techniques) that do not generate dust. Never use compressed air for cleaning.

If dust is generated during dry cleaning, it is essential to use personal protective equipment. Fill spilled material back into container. Subsequent use is possible.

6.4 Reference to other sections

Refer to sections 8 and 13 for further details.

7 SECTION 7: HANDLING AND STORAGE

7.1 Protective measures for safe handling

7.1.1 Recommendations for protective measures

Please follow the recommendations in section 8. For removal of dry material, please refer to section 6.3.

Measures for the prevention of fires

not applicable

Measures to prevent aerosol and dust formation

Do not sweep. For cleaning, use dry methods as far as possible, such as vacuum suction, which do not generate dust.

Measures to protect the environment

No special measures required.

7.1.2 Notes on general hygiene measures

Do not eat, drink or smoke while working. In dusty atmosphere wear respirator and safety goggles. Wear protective gloves to avoid skin contact. Wash hands after work.

7.2 Conditions for safe storage taking into account incompatibilities

Cyment should be stored in dry (internal condensation minimized), waterproof conditions, clean and protected from contamination. Do not enter material storage areas such as silos, boilers, silo trucks or other containers without proper safety precautions because of the risk of spillage and suffocation. In such enclosed spaces, the material may form walls and bridges, but these may collapse unexpectedly.

7.3 Specific end uses

None

8 SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTIVE EQUIPMENT

8.1 Parameters to be monitored

Limit value		Exposure route	Exposure frequency	
Cyment L	5 (E) mg/m ³	inhalative	Occupational exposure limit	SHI 2020 Federal Law Gazette II No. 382/2020
Biologically inert Suspended solids	5 (A) mg/m ³		TMW, (shift mean)	
	10 (E) mg/m ³		TMW	
	10 (A) mg/m ³		Short time (1h)	
	20 (E) mg/m ³		Short time (1h)	

A = Alveolar dust fraction, E = Inhalable dust fraction

8.2 Exposure controls and monitoring

8.2.1 Suitable technical control equipment

- In closed systems Provide for dust collection systems
- In semi-enclosed or open systems Provide good ventilation or humidification

8.2.2 Individual protective measures, for example personal protective equipment

General

Do not eat, drink or smoke while working. Wash hands before breaks and at the end of work and shower if necessary to remove adhering material. Avoid contact with eyes and skin. After working with the material, workers should wash or shower and use skin care products. Clean contaminated clothing, shoes, watches, etc. before reuse.

Face/eye protection

In case of dust formation or splash hazard, use tight-fitting safety goggles according to EN 166.

Skin protection Wear waterproof, abrasion- and alkali-resistant protective gloves. For example, nitrile-impregnated cotton gloves with CE mark are suitable (see BGR 195 of the German Employers' Liability Insurance Association). Observe maximum wearing time. Wear boots and long-sleeved clothing and use skin protection products.

Respiratory protection

If the exposure limits are exceeded (e.g. during open handling of powdery product), a suitable respiratory protection mask must be used (e.g. according to EN 149, EN 140, EN 14387, EN 1827). As a rule, particle-filtering half masks of type FFP1 or FFP2 are to be used (see table). General information can be found in the Berufsgenossenschaftliche Regel

BGR/GUV-R 190 of the FRG.

9 SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on the basic physical and chemical properties

(a) Appearance	Cyment L is a finely ground inorganic solid (gray-brown powder)
(b)	OdorOdorless
(c) Odor threshold	none, since odorless
(d) pH (T = 20°C in water, water-solid ratio 1:2)	11.5 - 13.5
(e) Melting point	> 1,250 °C
(f) Boiling point or boiling range	not applicable
(g) Flash point	not applicable
(h) Evaporation rate	not applicable
(i) Flammability (solid, gas)	not applicable
(j) Upper/lower flammability or explosion limits	not applicable.
(k) Vapor pressure	not applicable
(l) Vapor density	not applicable
(m) Relative density	2.9 - 3.4 g/cm ³ ; Bulk density: 0.9 - 1.5 g/cm ³ .
(n) Solubility in water (T = 20 °C)	Low (0.1 - 1.5 g/l)
(o) Partition coefficient n-octanol/water	not applicable
(p) Auto-ignition temperature	not applicable
(q) Decomposition temperature	not applicable
(r) Viscosity	not applicable
(s) Explosive properties	not applicable
(t) Oxidizing properties	not applicable

9.2 Other information

not applicable

10 SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No hazards with regard to reactivity.

10.2 Chemical stability

Cyment L is stable as long as it is stored properly and dry (section 7).

10.3 Possibility of hazardous reactions

Not applicable.

10.4 Conditions to avoid

Moisture during storage can cause lumping and loss of product quality.

10.5 Incompatible materials

No incompatible materials known.

10.6 Hazardous decomposition products

Cyment L does not decompose into hazardous components.

11 SECTION 11: TOXICOLOGICAL INFORMATION

Potential health hazard	The mixture is classified as non-hazardous.
Acute toxicity - oral, inhalation, dermal	No acute toxicity.
Irritant effect on skin, eyes	Non-irritant.
Corrosivity	Not corrosive.
	SensitizationNon-sensitizing.
Repeated dose toxicity	Not toxic with repeated administration.
Mutagenicity	Not mutagenic.
Carcinogenicity	No known carcinogenic effects.
Reproductive toxicity	No toxic effect for reproduction.

11.1 Information on toxicological effects

Health effects from exposure

Breathing dust can aggravate existing respiratory conditions, such as emphysema or asthma.

12 SECTION 12: ENVIRONMENTAL DISCLOSURES

12.1 Toxicity

Cyment L is classified as non-hazardous, no aquatic toxicity, non-toxic to sewage treatment plants.

12.2 Persistence and degradability

Not applicable

12.3 Bioaccumulative potential

Not applicable

12.4 Mobility in soil

Not applicable

12.5 Results of PBT and vPvB assessment

Not applicable

12.6 Other adverse effects

Not applicable

13 SECTION 13: NOTES ON DISPOSAL

13.1 Waste treatment process

Pick up Cyment L dry and reuse/recycle if possible. Waste treatment techniques are not required.

14 SECTION 14: TRANSPORT INFORMATION

Cyment L is not subject to international dangerous goods regulations (IMDG, IATA, ADR/RID). Therefore, no dangerous goods classification is required.

14.1 UN number

Not applicable

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard classes

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

Not applicable

14.6 Special precautions for the user

Not applicable

14.7 Bulk transport according to Annex II of MARPOL 73/78 and according to IBC Code

Not applicable

15 SECTION 15: LEGAL PROVISIONS

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

Cyment L is a mixture and is therefore not subject to registration under EC Regulation 1907/2006 (REACH). Chemicals Prohibition Ordinance (Chem Prohibition Ordinance 2003), Federal Law Gazette II No. 477/2003, Federal Law Gazette II No. 276/2007, Federal Law Gazette II No. 361/2008 and Federal Law Gazette II No. 179/2018.

Regulations of the FRG:

Water hazard class: WGK 1 (slightly hazardous to water - self-classification according to VwVwS of 17.05.1999).

15.2 Chemical Safety Assessment

A chemical safety assessment has not been carried out.

16 SECTION 16: OTHER DISCLOSURES

16.1 Changes compared to the previous version

16.2 Abbreviations and acronyms

ADR/RID	European Agreements on the transport of Dangerous goods by Road/Railway
EC50	Half maximal effective concentration (average effective concentration)
ECHA	European Chemicals Agency
EPAType of	high efficiency air filter (high efficiency air filter type)
HEPA	Type of high efficiency air filter (high efficiency air filter type)
IATAInternational	Air Transport Association
IMDG	International agreement on the Maritime transport of Dangerous Goods
LC50	Median lethal dose
PBTPersistent	, bio-accumulative and toxic (persistent, bioaccumulative, toxic)
REACH	Registration, Evaluation and Authorization of Chemicals (Regulation (EC) 1907/2006)

16.3 Training advice

In addition to training programs for workers on health, safety and the environment, companies must ensure that workers can read, understand and implement the requirements of the safety data sheet.