Safety Data Sheet
ULTRALITE S2

Safety Data Sheet dated 2/8/2018, version 5

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

1.1. Product identifier
Trade name: ULTRALITE S2

1.2. Relevant identified uses of the substance or mixture and uses advised against
Recommended use:
Cement based powder adhesive
Uses advised against:
==

1.3. Details of the supplier of the safety data sheet
Supplier:
MAPEI U.K. Ltd - Mapei House Steel Park Road
Halesowen - West Midlands B62 8HD
phone: +44(0)121 508 6970
fax:+44(0)121 5086 960
www.mapei.co.uk (office hour 7:00 am - 7:00 pm)

Competent person responsible for the safety data sheet:
sicurezza@mapei.it

1.4. Emergency telephone number

For medical emergencies call NHS 111 (where available) or your local doctor/ hospital. If you require advice outside of Mapei (UK) office hours (7am – 7pm) on any environmental issues, please contact OHES Environmental Ltd +44 (0) 1684 299 886

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

Warning, Skin Irrit. 2, Causes skin irritation.
Danger, Eye Dam. 1, Causes serious eye damage.
Warning, Skin Sens. 1, May cause an allergic skin reaction.
Warning, STOT SE 3, May cause respiratory irritation.

Adverse physicochemical, human health and environmental effects:
No other hazards

2.2. Label elements

Hazard pictograms:

Danger

Hazard Statements:

H315 Causes skin irritation.
H318 Causes serious eye damage.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.

Precautionary Statements:

P261 Avoid breathing dust.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
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.

Special Provisions:

None

Contains

Portland cement, Cr(VI) < 2 ppm
calcium formate

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

>= 25% - < 50% Portland cement, Cr(VI) < 2 ppm

CAS: 65997-15-1, EC: 266-043-4
3.2/2 Skin Irrit. 2 H315
3.4.2/1B Skin Sens. 1B H317
3.3/1 Eye Dam. 1 H318
3.8/3 STOT SE 3 H335

>= 1% - < 2.5% calcium formate

REACH No.: 01-2119486476-24-XXXX, CAS: 544-17-2, EC: 208-863-7
3.3/1 Eye Dam. 1 H318

SECTION 4: First aid measures

4.1. Description of first aid measures
In case of skin contact:
Immediately take off all contaminated clothing.
CONSULT A PHYSICIAN IMMEDIATELY.
Remove contaminated clothing immediately and dispose off safely.
After contact with skin, wash immediately with soap and plenty of water.
In case of eyes contact:
After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.
Protect uninjured eye.
In case of Ingestion:
Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.
Wash the mouth thoroughly and drink plenty of water. In case of disease consult a physician immediately and present this safety-data sheet.
In case of Inhalation:
In case of inhalation, consult a doctor immediately and show him packing or label.
4.2. Most important symptoms and effects, both acute and delayed
4.3. Indication of any immediate medical attention and special treatment needed
In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
Treatment:
(see paragraph 4.1)

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media:
Water.
CO2 or Dry chemical fire extinguisher.
Extinguishing media which must not be used for safety reasons:
None in particular.
5.2. Special hazards arising from the substance or mixture
The product does not present a fire hazard
5.3. Advice for firefighters
Use suitable breathing apparatus .
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Wear personal protection equipment.
Wear breathing apparatus if exposed to vapours/dusts/aerosols.
Provide adequate ventilation.
Use appropriate respiratory protection.
See protective measures under point 7 and 8.
6.2. Environmental precautions
Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
6.3. Methods and material for containment and cleaning up
Rapidly recover the product, wearing protective clothing.
Scoop into containers and seal for disposal.
After the product has been recovered, rinse the area and materials involved with water.
6.4. Reference to other sections
See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes and exposure to high dust concentration.
Avoid powder development and deposit
Use localized ventilation system.
Don't use empty container before they have been cleaned.
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers. (see point 10.5)
Contamined clothing should be changed before entering eating areas.
Do not eat or drink while working.
See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Incompatible materials:
None in particular.
Instructions as regards storage premises:
Adequately ventilated premises.

7.3. Specific end use(s)

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Portland cement, Cr(VI) < 2 ppm - CAS: 65997-15-1

ACGIH - TWA(8h): 1 mg/m3 - Notes: (E,R), A4 - Pulm func, resp symptoms, asthma

DNEL Exposure Limit Values

calcium formate - CAS: 544-17-2

Consumer: 23.9 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects
Worker Industry: 337 mg/m3 - Consumer: 83.2 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Industry: 337 mg/m3 - Consumer: 83.2 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
Worker Industry: 4780 mg/kg - Consumer: 2390 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects
Worker Industry: 4780 mg/kg - Consumer: 2390 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Industry: 16.7 mg/cm2 - Consumer: 8.3 mg/kg - Exposure: Human Dermal - Frequency: Short Term, local effects
Worker Industry: 16.7 mg/cm2 - Consumer: 8.3 mg/kg - Exposure: Human Dermal - Frequency: Long Term, local effects

PNEC Exposure Limit Values

calcium formate - CAS: 544-17-2

Target: Soil (agricultural) - Value: 1.5 mg/kg
Target: Freshwater sediments - Value: 13.4 mg/kg
Target: Marine water - Value: 0.2 mg/l
Target: Fresh Water - Value: 2 mg/l
Target: MAP2 - Value: 10 mg/l
Target: Marine water sediments - Value: 1.34 mg/kg
Target: Freshwater sediments - Value: 13.4 mg/kg
Target: Microorganisms in sewage treatments - Value: 2.21 mg/l

8.2. Exposure controls

Eye protection:

Safety goggles.

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.
Neoprene gloves are suggested (0,5 mm) not recommended gloves: not waterproof gloves

Respiratory protection:

Use respiratory protection where ventilation is insufficient or exposure is prolonged.

Personal Protective Equipment should comply with relevant CE standards (as EN 374 for gloves and EN 166 for goggles), correctly maintained and stored. Consult the supplier to check the suitability of equipment against specific chemicals and for user information.

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:	powder
Colour:	grey or white
Odour:	slight, typical of cement
Odour threshold:	N.A.
pH:	N.A.
pH(water dispersion,10%):	12
Melting point / freezing point:	== ℃
Initial boiling point and boiling range:	== ℃
Solid/gas flammability:	N.A.
Upper/lower flammability or explosive limits:	N.A.
Vapour density:	Not determined
Flash point:	== ℃
Evaporation rate:	Not determined
Vapour pressure:	== kPa (23℃)
Relative density:	1.5 g/cm³ (23℃)
Vapour density (air=1):	Not determined
Solubility in water:	==
Solubility in oil:	insoluble
Viscosity:	N.A.
Auto-ignition temperature:	== ℃ - No explosive or s pontaneous ignition in contact with air at room temperature
Explosion limits(by volume):	==
Decomposition temperature:	N.A.
Partition coefficient (n-octanol/water):	N.A. - This product is a mixture
Explosive properties:	== - No components with explosive properties
Oxidizing properties:	N.A. - No component with oxidizing properties

9.2. Other information

No additional information

SECTION 10: Stability and reactivity

10.1. Reactivity
Stable under normal conditions
10.2. Chemical stability
Stable under normal conditions
10.3. Possibility of hazardous reactions
10.4. Conditions to avoid
Stable under normal conditions.
10.5. Incompatible materials
None in particular.
10.6. Hazardous decomposition products
None.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Route(s) of entry:

Ingestion:	Yes
Inhalation:	Yes
Contact:	No

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.
The following tests refer to a mixture with a similar composition
Toxicological information on main components of the mixture:
Toxicological information of the product:
N.A.
Toxicological information of the main substances found in the product:
calcium formate - CAS: 544-17-2
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat = 2650 mg/kg
Test: LD50 - Route: Skin > 2000 mg/kg
Test: LC50 - Route: Inhalation - Species: Rat = 0.64 mg/l - Duration: 4h
g) reproductive toxicity:
Test: map1 - Route: Oral - Species: Rat = 956 mg/kg

Corrosive/Irritating Properties:
Skin:
The product can cause a temporary irritation by prolonged contact.
Eye:
The product can cause a temporary irritation by contact.
Cancerogenic Effects:
No effects are known.
Mutagenic Effects:
No effects are known.
Teratogenic Effects:
No effects are known.
If not differently specified, the information required in Regulation (EU)2015/830 listed below must be considered as N.A.:
a) acute toxicity
b) skin corrosion/irritation
c) serious eye damage/irritation
d) respiratory or skin sensitisation
e) germ cell mutagenicity
f) carcinogenicity
g) reproductive toxicity
h) STOT-single exposure
i) STOT-repeated exposure

j) aspiration hazard

SECTION 12: Ecological information

12.1. Toxicity

Adopt good industrial practices, so that the product is not released into the environment.
Biodegradability: no data available on the preparation.
calcium formate - CAS: 544-17-2
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish > 1000 mg/l - Duration h: 96
Endpoint: EC50 - Species: 19126 > 1000 mg/l - Duration h: 3
Endpoint: EC50 - Species: Daphnia > 1000 mg/l - Duration h: 48
Endpoint: EC50 - Species: Algae > 500 mg/l - Duration h: 72
b) Aquatic chronic toxicity:
Endpoint: NOEC - Species: Daphnia > 100 mg/l - Notes: 21 d
Endpoint: NOEC - Species: Algae > 500 mg/l
c) Bacteria toxicity:
Endpoint: EC50 - Species: 19126 > 22.1 mg/l - Duration h: 28

12.2. Persistence and degradability

N.A.

12.3. Bioaccumulative potential

N.A.

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects

None
Not available data on the mixture

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.
91/156/EEC, 91/689/EEC, 94/62/EC and subsequent amendments.
Disposal of hardened product (EC waste code) : 17 01 01
Disposal of not hardened product (EC waste code) : 17 01 01
The suggested European waste code is just based on the composition of the product.
According to the specific process or application field a different waste code may be necessary.

SECTION 14: Transport information

14.1. UN number

Not classified as dangerous in the meaning of transport regulations.

14.2. UN proper shipping name

N.A.

14.3. Transport hazard class(es)

ADR-Upper number: NA
N.A.

14.4. Packing group

N.A.

14.5. Environmental hazards

Marine pollutant: No
N.A.

14.6. Special precautions for user
N.A.
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
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SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) 2015/830
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:
Restrictions related to the product:
Restriction 3
Restrictions related to the substances contained:
No restriction.
Legislative Decree no. 81 of the 9th of April 2008 Title XI "Dangerous substances - Chapter I - Protection against chemical agents"
Directive 2000/39/CE and s.m.i. (Professional threshold limit)
Legislative Decree no. 152 of the 3rd of April 2006 and subsequent modifications and additions. (Environmental regulations)
Directive 105/2003/CE (Seveso III): N.A.
ADR Agreement – IMDG Code – IATA Regulation
VOC (2004/42/EC) : N.A. g/l

Provisions related to directive EU 2012/18 (Seveso III):
Seveso III category according to Annex 1, part 1
None

15.2. Chemical safety assessment
No

SECTION 16: Other information

Text of phrases referred to under heading 3:
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
Paragraphs modified from the previous revision:

SECTION 16: Other information

This document was prepared by a competent person who has received appropriate training.
Main bibliographic sources:

NIOSH - Registry of toxic effects of chemical substances
ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.
It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.
This MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the “International Air Transport Association” (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the “International Civil Aviation Organization” (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
LTE:	Long-term exposure.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STE:	Short-term exposure.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWATLV:	Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
OEL:	Substance with a Union workplace exposure limit.
VLE:	Threshold Limiting Value.
WGK:	German Water Hazard Class.
TSCA:	United States Toxic Substances Control Act Inventory
DSL:	DSL - Canadian Domestic Substances List
N.A.:	Not available