



WINTER ADHESIVE EWI-221

SAFETY SHEET

According to 1907/2006/EC, Article 31

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

1.1 PRODUCT IDENTIFIER

Product form:	Powder
Product name:	EWI-221 Winter Adhesive
Product code:	EWI-221
Type of product:	Basecoat

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Application of the substance	This product is used to fix EPS insulation boards to a substrate and to create a basecoat reinforcement layer for rendering.
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1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Manufacturer:	EWI Pro Insulation Systems Ltd Unit 1-2, King Georges Trading Estate, Davis Road, Chessington, England, KT9 1TT 0800 133 7072 info@ewipro.com technical@ewipro.com
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Producer:	KREISEL - Technika Budowlana Sp. z o.o. ul. Szarych Szeregów 23 60-462 Poznań Poland Tel. +48 (0)61 846 79 00 Fax +48 (0)61 846 79 09 poznana@kreisel.pl
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1.4 EXTERNAL EMERGENCY CONTACTS

Environment Agency Emergency Hotline:	+44/(0)800 80 70 60
Emergency Services (UK): Emergency	999

SECTION 2: HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Classification under CLP: STOT SE 3: H335, Eye Dam. 1: H318, Skin Irrit. 2: H315, Skin Sens. 1A: H317

Most important adverse effects:

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation.

2.2 LABEL ELEMENTS

Label elements:

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

Hazard pictograms:

GHS05: Corrosion, GHS07: Exclamation mark



Signal words: Danger

Precautionary statements: P102: Keep out of reach of children. P261: Avoid breathing dust. P271: Use only outdoors or in a well-ventilated area. P280: Wear protective gloves/protective clothing/eye protection/face protection. P302+P352: IF ON SKIN: Wash with plenty of water. P332+P313: If skin irritation occurs. Seek medical advice/attention. P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P315: Seek immediate medical advice/attention. P362+P364: Take off contaminated clothing and wash it before reuse. P501: Dispose of contents/container to appropriate waste collection point.

2.3 OTHER HAZARDS

This product is not identified as a PBT/vPvB substance.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 SUBSTANCE

This product is a mixture.

3.2 MIXTURE

Description: Mixture of inorganic binders, fillers and nonhazardous additions

Dangerous components:

CAS: 1305-62-0 EINECS: 215-137-3 Reg.nr.: 01-2119475151-45	Calcium dihydroxide Eye Dam. 1, H318; Skin Irrit. 2, H315; STOT SE 3, H335	<1%
CAS: 65997-15-1 EINECS: 266-043-4 Reg.nr.: 02-2119682167-31	Portland cement clinker Eye Dam. 1, H318; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	25-50%
CAS: 14808-60-7 EINECS: 238-878-4 REACH: *	Silicon dioxide (quartz, <1% RCS) Substance with a Community workplace exposure limit	2.5%-10%

Other components (>10%):

CAS: 1317-65-3 EINECS: 215-279-6 Reg.nr.: -	Limestone (Calcium carbonate)	50-100%
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Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

Skin contact: Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.

Eye contact: Rinse the eye with running water for 15 minutes. Do not rub eyes, as additional cornea damage is possible by mechanical stress. Contact a specialist of occupational medicine or an eye specialist.

Ingestion: Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Get medical attention if any discomfort continues.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. If symptoms develop, seek medical attention.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Immediate / special treatment: Eye bathing equipment should be available on the premises.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Extinguishing media: The mixture is fire resistant in both delivery condition and mixed condition. In the event of a fire, the mixture will not need extinguishing.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Exposure hazards: This product is neither explosive nor flammable, and non-oxidizing with other materials. Dust formations react alkaline with water and can cause a fire risk.

5.3 ADVICE FOR FIRE-FIGHTERS

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Personal precautions: Avoid formation of dust. Avoid inhalation, eye and skin contact. If appropriate, reference must be made to exposure controls and personal protection (see section 8).

6.2 ENVIRONMENTAL PRECAUTIONS

Environmental precautions: Do not discharge into drains or rivers.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Clean-up procedures: Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4 REFERENCE TO OTHER SECTIONS

Reference to other sections: Refer to section 8 of SDS.

SECTION 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Avoid the formation or spread of dust in the air.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Storage conditions: Store in a cool, well-ventilated area. Keep the container tightly closed.

Suitable packaging: Must only be kept in original packaging.

7.3 SPECIFIC END USE(S)

Specific end use(s): No data available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

Ingredients with limit values that require monitoring at the workplace:		
65997-15-1 Portland cement clinker		
WEL (Great Britain)	Long-term value: 10* 4** mg/m ³ *inhalable dust **respirable dust	
1305-62-0 Calcium dihydroxide		
WEL (Great Britain)	Short-term value: 2.5 A 20 E mg/m ³ Long-term value: 1.25 A 10 E mg/m ³ A - IFA 6068 (2003) E - IFA 7284 (2003) Germany	
DNELs		
1305-62-0 Calcium dihydroxide		
Inhalation	DNEL Long term exposure DNEL Short term exposure	1 mg/m ³ (Workers) 4 mg/m ³ (Workers)

A - Alveoles passing particles E - Respirable particles (DIN EN 481)

Additional information:

During manufacture, the valid lists were used as guidance only.

8.2 EXPOSURE CONTROLS

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency. Respiratory protective device with particle filter.

Hand protection: Protective gloves.

Eye protection: Tightly fitting safety goggles. Ensure eye bath is by hand.

Skin protection: Protective clothing.

Environmental: No data available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

State: Powder

Colour: Light Grey

Odour: Odourless

Evaporation rate: Not applicable.

Oxidising: Not applicable.

Solubility in water: Fully miscible.

Also soluble in: No data available.

Viscosity: Not applicable.

Viscosity test method: Not applicable.

Boiling point/range°C: Not applicable.

Melting point/range°C: >1300 °C.

Flammability limits %:

lower: Not applicable.

upper: Not applicable.

Flash point°C: Not applicable.

Part.coeff. n-octanol/water: Not applicable.

Autoflammability°C: Not applicable.

Vapour pressure: Not applicable.

Relative density: Not determined.

pH: Alkaline 11.5-13.

VOC g/l: 0.0 g/l

9.2 OTHER INFORMATION

Other Information: No data available

SECTION 10: STABILITY AND REACTIVITY

10.1 REACTIVITY

No dangerous reactions known.

10.2. CHEMICAL STABILITY

The product is stable as long as it is stored properly and kept dry.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No dangerous reactions known.

10.4 CONDITIONS TO AVOID

No further relevant information available.

10.5 INCOMPATIBLE MATERIALS

No further relevant information available.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

No dangerous decomposition products known.

Additional information:

The mixture is chromate reduced. The ready-to-use product (after the addition of water) contains a maximum 2 mg/kg dissolvable chrom(-VI) related to the dry mass. Presupposition for the chromate reduction is the appropriate storage under consideration of the maximum storage life.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

The product was not investigated. The statement is derived from the properties of the single components.

Acute toxicity:

Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification		
1317-65-3 Limestone (Calcium carbonate)		
Oral	LC50	6450 mg/kg (Rat) (RTECS Data)
65997-15-1 Portland cement clinker		
Oral	LD50	>2000 mg/kg (Mouse) In animal studies with cement dust no acute toxicity was observed. On the basis of the available data, the classification criteria are not fulfilled.
Dermal	LD0 (no lethality)	2000 mg/kg (Rabbit) (Limit test 24h [4]) On the basis of the available data, the classification criteria are not fulfilled.
Inhalation	LD0 (no lethality)	5 mg/m ³ (Rat) (Limit test [10]) On the basis of the available data, the classification criteria are not fulfilled.
1305-62-0 Calcium dihydroxide		
Oral	LD50	7340 mg/kg (Rat) (OECD 425) >2500 mg/kg (Rabbit) (OECD 402)
Dermal	LD50	>2500 mg/kg (Rabbit) (OECD 402)

SYMPTOMS / ROUTES OF EXPOSURE

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Other information: No data available.

SECTION 12: ECOLOGICAL INFORMATION

12.1 TOXICITY

The product was not investigated. The statement is derived from the properties of the single components.

Aquatic toxicity	
1317-65-3 Limestone (Calcium carbonate)	
LC50 (96h)	>100 mg/l (Rainbow trout - <i>oncorhynchus mykiss</i>) (OECD 203)
LC50 (48h)	>100 mg/l (Water flea - <i>daphnia magna</i>) (OECD 202)
EC50	>14 mg/l (Algae - <i>desmodesmus subspicatus</i>) (OECD 201) >1000 mg/l (Activated sewage sludge) (OECD 209)
65997-15-1 Portland cement clinker	
LC50	- mg/l (Water flea - <i>daphnia magna</i>) (low effect [6,8]) - mg/l (Algae - <i>selenastrum coli</i>) (low effect [7,8]) - mg/l (Sediments) (low effect [9])

12.2 PERSISTENCE AND DEGRADABILITY

The product is not removable from water by biological cleaning process.

12.3 BIOACCUMULATIVE POTENTIAL

Does not accumulate in organisms.

12.4 MOBILITY IN SOIL

Slightly soluble

Ecotoxicological effects:

Only by increasing the pH value during application of large quantities.

Behaviour in sewage processing plants:

Remark:

Ecotoxicological tests with Portland cement on *Daphnia magna* (US EPA, 1994a, see Section 16 References [6]) and *Selenastrum Coli* (US EPA, 1993, see section 16 literature [7]) have shown little toxicological effect. Therefore, the LC50 and EC50 values could not be determined, see section 16 literature [8]. There were also no toxic effects on sediments found, see section 16 literature [9]. The addition of large quantities of cement in water can cause a pH increase and thus can be toxic to aquatic life.

Additional ecological information:

General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

12.5 RESULTS OF PBT AND vPvB ASSESSMENT

PBT identification: This product is not identified as a PBT/vPvB substance

12.6 OTHER ADVERSE EFFECTS

No further relevant information available.

Literature

No further relevant information available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

Disposal operations: Transfer to a suitable container and arrange for collection by a specialised disposal company.

Recovery operations: No information available.

Disposal of packaging: Dispose of as normal industrial waste.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

SECTION 14: TRANSPORT INFORMATION

14.1 UN NUMBER

ADR, ADN, IMDG, IATA

VOID

14.2 UN PROPER SHIPPING NAME

ADR, ADN, IMDG, IATA

VOID

14.3 TRANSPORT HAZARD CLASS(ES)

ADR, ADN, IMDG, IATA Class

VOID

14.4 PACKING GROUP

ADR, IMDG, IATA

VOID

14.5 ENVIRONMENTAL HAZARDS

Marine pollutant:

No

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.

UN "MODEL REGULATION":

VOID

SECTION 15: REGULATORY INFORMATION

15.1 SAFETY, HEALTH, AND ENVIRONMENTAL REGULATIONS/ LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

Observe the general safety regulations when handling chemicals.

Directive 2012/18/EU

Named dangerous substances - ANNEX I:

None of the ingredients are listed.

National regulations:

Biozide ingredients (98/8/EG):

Data based on recipe and information on the raw materials from the supply chain.

None of the ingredients are listed.

Water hazard class:

Water hazard class 1 (Self-assessment): slightly hazardous for water.

Other regulations, limitations and prohibitive regulations:

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and

Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

Directive 1999/45/EC of the European Parliament and of the Council of 31 May 1999 concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations

Commission regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration,

Evaluation, Authorisation and Restriction of Chemicals (REACH)

Regulation (EC) 1013/2006 on shipments of waste

REACH Regulation EC 1907/2006 (REACH), Annex XVII No. 47 (chromium VI - compounds).

Technical Rules for Hazardous Substances 900 - Workplace exposure limits (TRGS 900, Germany)

15.2 CHEMICAL SAFETY ASSESSMENT

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

SECTION 16: OTHER INFORMATION

Reasons for changes:

* Data compared to the previous version altered.

Relevant phrases:

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

H335: May cause respiratory irritation.

Advice for instructions:

Additional training in activities involving hazardous substances is not required.

Literature

[1] Portland Cement Dust-Hazard assessment document EH75/7, UK Health and Safety Executive, 2006: <http://www.hse.gov.uk/pubns/web/portlandcement.pdf>.

[2] Technische Regel für Gefahrstoffe „Arbeitsplatzgrenzwerte“, 2009, GMBI Nr.29 S.605.

[3] MEASE 1.02.01 Exposure assessment tool for metals and inorganic substances, EBRC Consulting GmbH für Eurometaux, 2010

- [4] Observations on the effects of skin irritation caused by cement, Kietzman et al, *Dermatosen*, 47,5, 184-189 (1999).
- [5] Epidemiological assessment of the occurrence of allergic dermatitis in workers in the construction industry related to the content of Cr (VI) in cement, NIOH, Page11, 2003.
- [6] U.S. EPA, Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms, 3rd ed. EPA/600/7-91/002, Environmental Monitoring and Support Laboratory, U.S. EPA, Cincinnati, OH (1994a).
- [7] U.S. EPA, Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms, 4th ed. EPA/600/4-90/027F, Environmental Monitoring and Support Laboratory, U.S. EPA, Cincinnati, OH (1993).
- [8] Environmental Impact of Construction and Repair Materials on Surface and Ground Waters. Summary of Methodology, Laboratory Results, and Model Development. NCHRP report 448, National Academy Press, Washington, D.C., 2001.
- [9] Final report Sediment Phase Toxicity Test Results with *Corophium volutator* for Portland clinker prepared for Norcem A.S. by AnalyCen Ecotox AS, 2007.
- [10] TNO report V8801/02, An acute (4-hour) inhalation toxicity study with Portland Cement Clinker CLP/GHS 03-2010-fine in rats, August 2010.
- [11] TNO report V8815/09, Evaluation of eye irritation potential of cement clinker G in vitro using the isolated chicken eye test, April 2010.
- [12] TNO report V8815/10, Evaluation of eye irritation potential of cement clinker W in vitro using the isolated chicken eye test, April 2010.
- [13] European Commission's Scientific Committee on Toxicology, Ecotoxicology and the Environment (SCTEE) opinion of the risks to health from Cr (VI) in cement (European Commission, 2002): http://ec.europa.eu/health/archive/ph_risk/committees/sct/documents/out158_en.pdf.
- [14] Investigation of the cytotoxic and proinflammatory effects of cement dusts in rat alveolar macrophages, Van Berlo et al, *Chem. Res. Toxicol.*, 2009 Sept; 22(9):1548-58
- [15] Cytotoxicity and genotoxicity of cement dusts in A549 human epithelial lung cells in vitro; Gminski et al, Abstract DGPT conference Mainz, 2008.
- [16] Comments on a recommendation from the American Conference of governmental industrial Hygienists to change the threshold limit value for Portland cement, Patrick A. Hessel and John F. Gamble, EpiLung Consulting, June 2008.
- [17] Prospective monitoring of exposure and lung function among cement workers, Interim report of the study after the data collection of Phase I-II 2006-2010, H. Notø, H. Kjuus, M. Skogstad and K.- C. Nordby, National Institute of Occupational Health, Oslo, Norway, March 2010.
- [18] Anonymous, 2006: Tolerable upper intake levels for vitamins and minerals Scientific Committee on Food, European Food Safety Authority, ISBN: 92-9199-014-0
- [19] Anonymous, 2008: Recommendation from the Scientific Committee on Occupational Exposure Limits (SCOEL) for calcium oxide (CaO) and calcium dihydroxide (Ca(OH)₂), European Commission, DG Employment, Social Affairs and Equal Opportunities, SCOEL/SUM/137 February 2008

Department issuing MSDS:

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Abbreviations and acronyms:

- RID:** Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
- ICAO:** International Civil Aviation Organisation
- MAK:** Maximale Arbeitsplatz-Konzentration (maximum concentration of a chemical substance in the workplace, Austria/ Germany)
- PBT:** persistent, bioaccumulative and toxic properties
- vPvB:** very persistent, bioaccumulative properties
- ADR:** Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the 14 Safety data sheet International Carriage of Dangerous Goods by Road)
- IMDG:** International Maritime Code for Dangerous Goods
- IATA:** International Air Transport Association
- GHS:** Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS:** European Inventory of Existing Commercial Chemical Substances
- ELINCS:** European List of Notified Chemical Substances
- CAS:** Chemical Abstracts Service (division of the American Chemical Society)
- DNEL:** Derived No-Effect Level (REACH)
- LC50:** Lethal concentration, 50 percent
- LD50:** Lethal dose, 50 percent
- Skin Irrit. 2:** Skin corrosion/irritation – Category 2
- Eye Dam. 1:** Serious eye damage/eye irritation – Category 1
- Skin Sens. 1:** Skin sensitisation – Category 1
- STOT SE 3:** Specific target organ toxicity (single exposure) – Category 3

The information in this safety data sheet describes the safety requirements of our product and is based on the current state of our knowledge. These sheets provide no assurance of product quality. The recipient must act responsibly during use and observe the existing laws, ordinances and regulations that are not mentioned on this datasheet.



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