

Safety Data Sheet according to Regulation (EC) No 1907/2006 (REACH) as amended by Reg 453/2010

Product Trade name: Epoxy Grout Aggregate Filled A Pack

Revision Version 1.0 / EN of [13.01.2015]

Replaces all previous versions

Print date: 13.01.2015

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

1.1 Product identifier

Epoxy Grout Aggregate Filled A Pack

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

1.2.1 (10) Epoxy Grout Aggregate Filled is used for the protective coating of floors.

1.3 Details of the supplier of the safety data sheet

Company name: Antel Ltd

Full address: Unit 3.5 Central Point, Kirpal Road, Portsmouth, Hants PO3 6FH

Telephone number: 0044 (0)23 9285 6110

E-mail address: safety@antel.co.uk

1.4 Emergency telephone number

Emergency telephone number: 0044 (0)23 9285 6110

Hours of operation: 0900 hrs – 1700 hrs

Service is provided in the following language: English

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

2.1.1 According to Regulation (EC) No 1272/2008

Hazard class	Hazard category	Classification procedure
Skin irritation	2	On the basis of test data
Serious eye damage/eye irritation	2	On the basis of test data
Skin sensitisation	1	On the basis of literature survey
Hazardous to the aquatic environment	2	On the basis of literature survey

Hazard statements

H318: Causes serious eye damage

H315: Causes skin irritation

H317: May cause an allergic skin reaction

H411 Toxic to aquatic life with long lasting effects.

2.2 Label elements

According to Regulation (EC) No 1272/2008



Signal word : Danger

Hazard statements:

H319 Causes serious eye irritation

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H411 Toxic to aquatic life with long lasting effects.

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Precautionary statements:

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

P305+P351+P338+P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician

P302+P352+P333+P313: IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention

P261+P304+P340+P312: Avoid breathing dust/fume/gas/mist/vapours/spray. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

2.3. Other hazards

Contains epoxy constituents.

SECTION 3: Composition/information on ingredients

Composition information – main constituents					
name	EC number	CAS number	Concentration	Classification according Regulation (EC) No. 1272 (CLP)	
bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)	500-033-5	25068-38-6	50-100%	Eye Irrit. 2, H319 Skin Irrit. 2, H315 Skin Sens.1, H317 Aquatic Chronic 2, H411	
bisphenol F - epoxy resin	500-006-8	28064-14-4	25-50%	Eye Irrit. 2, H319 Skin Irrit. 2, H315 Skin Sens.1, H317 Aquatic Chronic 2, H411	
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs	271-846-8	68609-97-2	10-25%	Eye Irrit. 2, H319 Skin Irrit. 2, H315 Skin Sens.1, H317	

SECTION 4: First aid measures

4.1. Description of first aid measures

General notes

Following contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. Protect uninjured eye.

Following skin contact

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

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Wash thoroughly the body (shower or bath). Remove contaminated clothing immediately and dispose of safely. After contact with skin, wash immediately with soap and plenty of water

Following inhalation

Move the person to fresh air. Dust in throat and nasal passages should clear spontaneously. Contact a physician if irritation persists or later develops or if discomfort, coughing or other symptoms persist.

Following ingestion

A suspension of activated charcoal in water, or petroleum jelly may be administered. Wash the mouth thoroughly and drink plenty of water. In case of disease consult a physician immediately and present this safety-data sheet

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

If brought into contact with the eyes, the product causes irritation that may last for over 24 hours, and if brought into contact with the skin it causes significant inflammation with erythema, scabs, and oedema.

If brought into contact with the skin, the product may cause sensitisation of the skin.

This preparation contains low molecular weight epoxy resins. Cross sensitisation to other epoxies is possible. Avoid also exposure to spray mist and vapour.

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) When contacting a physician, take this SDS with you.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media:

None in particular.

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

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

The original ingredients or unidentified toxic and/or irritant compounds may be present in the combustion fumes. 5.3. Advice for fire-fighters

5.3. Advice for fire-fighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. Not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

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.

Remove persons to safety.

See protective measures under point 7 and 8.

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6.2. Environmental precautions

Limit leakages with earth or sand.
Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
Retain contaminated washing water and dispose it.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Rapidly recover the product, wearing protective clothing.
Suitable material for taking up: absorbing material, organic, sand
Wash with plenty of water.
Retain contaminated washing water and dispose it.

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, inhalation of vapours and mists.
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.
Contaminated clothing should be changed before entering eating areas.
Do not eat or drink while working.
See also section 8 for recommended protective equipment.
Fine dust may form explosive mixture with air. Keep away from open flames, heat and sparks.
Do not remove shrink film in hazardous locations (because of risk of static charging/discharge)

7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.
Incompatible materials: None in particular.
Instructions as regards storage premises: Adequately ventilated premises. Store above 5°C.

7.3. Specific end use(s)

None in particular in dusty environment, wear dust mask and protective goggles.
Use protective gloves to avoid skin contact.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No occupational exposure limit available
DNEL Exposure Limit Values
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700) - CAS: 25068-38-6
Worker Industry: 8.3 mg/kg - Exposure: Human Dermal Short Term, systemic effects
Worker Industry: 12.3 mg/m³ - Exposure: Human Inhalation Short Term, systemic effects
Worker Industry: 8.3 mg/kg - Exposure: Human Dermal Long Term, systemic effects
Worker Industry: 12.3 mg/m³ - Exposure: Human Inhalation Long Term, systemic effects
Consumer: 3.6 mg/kg - Exposure: Human Dermal Short Term, systemic effects
Consumer: 0.75 mg/m³ - Exposure: Human Inhalation Short Term, systemic effects
Consumer: 0.75 mg/kg - Exposure: Human Oral Short Term, systemic effects

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Consumer: 3.6 mg/kg - Exposure: Human Dermal Long Term, systemic effects
 Consumer: 0.75 mg/m3 - Exposure: Human Inhalation Long Term, systemic effects
 Consumer: 0.75 mg/m3 - Exposure: Human Oral Long Term, systemic effects
 bisphenol F - epoxy resin - CAS: 28064-14-4
 Worker Professional: 0.0083 mg/cm2 - Exposure: Human Dermal Short Term, local effects
 Worker Professional: 104.15 mg/kg - Consumer: 62.5 mg/kg - Exposure: Human Dermal Long Term, systemic effects
 Worker Professional: 29.39 mg/m3 - Consumer: 8.7 mg/m3 - Exposure: Human Inhalation Long Term, systemic effects
 Consumer: 6.25 mg/kg - Exposure: Human Oral Long Term, systemic effects
 Oxirane, mono[(C12-14-alkyloxy)methyl] derivs - CAS: 68609-97-2
 Worker Industry: 17 mg/kg - Exposure: Human Dermal Short Term, systemic effects
 Worker Industry: 0.029 mg/l - Exposure: Human Inhalation Short Term, systemic effects
 Worker Industry: 0.0098 mg/l - Exposure: Human Inhalation Short Term, local effects
 Worker Industry: 3.9 mg/kg - Exposure: Human Dermal Long Term, systemic effects
 Worker Industry: 0.0138 mg/l - Exposure: Human Inhalation Long Term, systemic effects
 Worker Industry: 1.7 mg/kg - Exposure: Human Dermal Long Term, local effects
 Worker Industry: 0.00098 mg/l - Exposure: Human Inhalation Long Term, local effects
 Consumer: 10 mg/kg - Exposure: Human Dermal Short Term, systemic effects
 Consumer: 0.0076 mg/l - Exposure: Human Inhalation Short Term, systemic effects
 Consumer: 1219 mg/kg - Exposure: Human Oral Short Term, systemic effects
 Consumer: 40 mg/kg - Exposure: Human Dermal Short Term, local effects
 Consumer: 0.0029 mg/l - Exposure: Human Inhalation Short Term, local effects
 Consumer: 2.35 mg/kg - Exposure: Human Dermal Long Term, systemic effects
 Consumer: 0.0041 mg/l - Exposure: Human Inhalation Long Term, systemic effects
 Consumer: 1 mg/kg - Exposure: Human Oral Short Term, systemic effects
 PNEC Exposure Limit Values
 reaction product: bisphenol-A(epichlorhydrin); epoxy resin (number average molecular weight <= 700) - CAS: 25068-38-6
 Target: Fresh Water - Value: 0.003 mg/l
 Target: Marine water - Value: 0.0003 mg/l
 Target: Freshwater sediments - Value: 0.5 mg/kg
 Target: Marine water sediments - Value: 0.5 mg/kg
 bisphenol F - epoxy resin - CAS: 28064-14-4
 Target: Fresh Water - Value: 0.003 mg/l
 Target: Marine water - Value: 0.0003 mg/l
 Target: MAP2 - Value: 0.0254 mg/l
 Target: Freshwater sediments - Value: 0.294 mg/kg
 Target: Marine water sediments - Value: 0.0294 mg/kg
 Target: Soil (agricultural) - Value: 0.237 mg/kg
 Oxirane, mono[(C12-14-alkyloxy)methyl] derivs - CAS: 68609-97-2
 Target: Fresh Water - Value: 0.0072 mg/l
 Target: Marine water - Value: 0.00072 mg/l
 Target: MAP2 - Value: 0.072 mg/l
 Target: Freshwater sediments - Value: 66.77 mg/kg
 Target: Marine water sediments - Value: 6.677 mg/kg
 Target: Soil (agricultural) - Value: 80.12 mg/kg
 Target: Microorganisms in sewage treatments - Value: 10 mg/l

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8.2. Exposure controls

8.2.1 Appropriate engineering controls



8.2.2.1 Eye protection:

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



8.2.2.2 Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.
Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.
The use of LLPDE (0,06 mm), nitrile (0,4) or butyl (0,5 mm) gloves is suggested.
Latex gloves are not recommended.



8.2.2.3 Respiratory protection:

Not needed for normal use.

Not needed for normal use.

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

8.2.3 Environmental exposure controls: None

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.

8.2.4 Consumer exposure control

Exposure Scenario	PROC*	Exposure	Specification of respiratory protective equipment (RPE)	RPE efficiency - assigned protection factor (APF)
Epoxy Grout Aggregate Filled is used for the protective coating of floors	10	Duration is not restricted	Not required	-
	26		Not required	-
				-

* PROC's are identified uses and defined in section 1.2.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

9.1.1 Appearance

Physical state: liquid. Colour: Clear, various colours. Odour: Characteristic. Odour threshold: N.A.

9.1.2 Safety relevant basic data.

Melting point / freezing point: N.A.
 Initial boiling point and boiling range: .200°C
 Flash point: > 140 °C
 Evaporation rate: N.A.
 Vapour pressure: N.A.
 Relative density: < 2 hPa @ (20°C)
 Vapour density (air=1): 1.13 g/cm³
 Solubility in water: Insoluble
 Solubility in organic solvents: soluble
 Viscosity: 900-1050 mPa.s (25°C)
 Explosion limits(by volume): N.A.
 Decomposition temperature: > 350°C.
 Explosive properties: N.A.
 Oxidizing properties: Strong oxidising substances. Strong acids. Strong alkalis. Amines⁴

9.1.3 Physical hazards

Pyysical hazard		Physical hazard		Physical hazard		Physical hazard	
Explosives	n/a	Gases under pressure	n/a	Oxidising liquids	n/a	Flammable aerosols	n/a
Flammable gases	n/a	Flammable liquid	n/a	Organic peroxides	n/a	Metal corrosion	n/a
Substances or mixtures which, in contact with water emit flammable gases	n/a	Flammable solids	n/a	Self reactive substances and mixtures	n/a	Self heating substances and mixtures	n/a
Oxidising gases	n/a	Pyrophoric liquids	n/a	Pyrophoric solids	n/a	Oxidising solids	n/a

9.2. Other information

Miscibility: N.A.
 Fat Solubility: N.A.
 Conductivity: N.A.
 Substance Groups relevant properties N.A.

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under normal conditions

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10.3. Possibility of hazardous reactions

Exothermic polymerisation

10.4. Conditions to avoid

Avoid excessive heat for prolonged periods of time. Decomposition above 350°C.

10.5. Incompatible materials

Strong oxidising substances. Strong acids. Strong alkalis. Amines

10.6. Hazardous decomposition products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Phenolic.

SECTION 11: Toxicological information**11.1. Information on toxicological effects**

Route(s) of entry:

Ingestion: Yes

Inhalation: Yes

Contact: Yes

Toxicological information related to the product:

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.

Toxicological information of the mixture:N.A.

Toxicological information of the main substances found in the mixture:

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700) - CAS: 25068-38-6

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg - Notes: riferito a prodotto di

reazione:bisfenolo-A-epicloridrina;resine epossidiche

Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg - Notes: riferito a prodotto di

reazione:bisfenolo-A-epicloridrina;resine epossidiche

bisphenol F - epoxy resin - CAS: 28064-14-4

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg

Oxirane, mono[(C12-14-alkyloxy)methyl] derivs - CAS: 68609-97-2

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 26800 mg/kg

Corrosive/Irritating Properties:

Skin:

The product can cause irritation by contact.

Eye:

The product can cause irritation by contact

Sensitizing Properties:

Frequent contact may cause sensitization.

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Cancerogenic Effects:
No effects are known.

Mutagenic Effects:
No effects are known.

Teratogenic Effects:
No effects are known.

Additional Information:

Liquid epoxy resin contained in this material causes only minor skin irritation. However, all epoxy resins are capable of causing sensitizing of the skin.

Susceptibility to skin irritation and sensitization varies from person to person. In a sensitized individual the allergic dermatitis may not appear until after several days or weeks of frequent and prolonged contact. Therefore, even though the skin irritation potential is slight, skin contact should be avoided. Once sensitization has occurred, exposure of the skin to very small quantities of the material may cause erythema and edema. For this reason, the contact with the skin should be avoided. Once sensitization has occurred, exposures to small amounts of material may cause erythema and edema locally. If not differently specified, the information required in Regulation 453/2010/EC 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.

Not available data on the mixture

Biodegradability: not readily biodegradable

Biodegradability: no data available on the preparation.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700) - CAS: 25068-38-6

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 1.5 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 1.7 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 9.4 mg/l - Duration h: 72

12.2. Persistence and degradability

N.A.

12.3. Bioaccumulative potential

N.A.

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12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

List of substances dangerous for the environment and corresponding classification:
 50% - 100% reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)
 CAS: 25068-38-6
 25% - 50% bisphenol F - epoxy resin
 CAS: 28064-14-4
 EC50 (Daphnia): 0.16 mg/l (48 hr)
 LC50 (Fish): 0.19 mg/l (96 hr)
 vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects

Not relevant.

12.7 Additional ecotoxicological effects

Not relevant

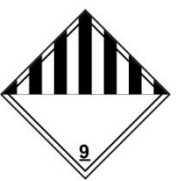
SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.
 Dispose of this material and its container to hazardous or special waste collection point.
 Avoid release to the environment. Refer to special instructions/Safety data sheets.
 91/156/EEC, 91/689/EEC, 94/62/EC and subsequent amendments.
 Disposal of not hardened product (EC waste code) : 08 04 09
 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

UN No. 3082

Transport hazard class(es)	
ADR, IMDG, IATA	
 Class Label	 9 Miscellaneous dangerous substances and articles. 9
Packing group · ADR, IMDG, IATA	
III	
Environmental hazards:	
Marine pollutant:	Yes
Special marking (IMDDG):	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)

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Special marking (IATA):	Symbol (fish and tree)
Special precautions for user Warning:	Miscellaneous dangerous substances and articles.
Danger code (Kemler):	90
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable
UN "Model Regulation":	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LIQUID EPOXY RESIN, ALIPHATIC GLYCIDYL ETHER), 9, III

14.6. Special precautions for user

Not relevant.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not relevant.

SECTION 15: Regulatory information

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

Dir. 67/548/EEC (Classification, packaging and labelling of dangerous substances)

Dir. 99/45/EC (Classification, packaging and labelling of dangerous preparations)

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Dir. 2006/8/EC

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP)

Regulation (EU) n. 453/2010 (Annex I)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

None

Dir. 67/548/EEC (Classification, packaging and labelling of dangerous substances). Dir. 99/45/EEC chemical agents at work). Dir. 2000/39/EC (Occupational exposure limit values); Dir. 2006/8/CE.

Regulation (CE) n. 1907/2006 (REACH), Regulation (CE) n. 1272/2008 (CLP), Regulation (CE) n. 790/2009 (1° ATP CLP), Regulation (EU) n. 453/2010 (Annex I).

REACH Regulation (1907/2006)

REACH Regulation (1907/2006) – All. XVII: N.A.

REACH Regulation° 1907/2006 (REACH) – Art. 59 (Substances in "Candidate List"): N.A.

CLP Regulation n° 1272/2008 (CLP) and s.m.i.

Directive n° 1999/45/CE (Dangerous Preparation) and s.m.i.

Directive n° 67/548/CEE (Substances) and s.m.i.

Directive 2000/39/CE and s.m.i. (Professional threshold limit)

Directive 105/2003/CE (Seveso III): N.A.

ADR Agreement – IMDG Code – IATA Regulation

VOC (2004/42/EC) : N.A. g/l

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15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

16.1 Indication of changes

16.2 Abbreviations and acronyms

ADR/RID	European Agreements on the transport of Dangerous goods by Road/Railway
APF	Assigned protection factor
CAS	Chemical Abstracts Service
CLP	Classification, labelling and packaging (Regulation (EC) No 1272/2008)
COPD	Chronic Obstructive Pulmonary Disease
DNEL	Derived no-effect level
EC50	Half maximal effective concentration
ECHA	European Chemicals Agency
EINECS	European Inventory of Existing Commercial chemical Substances
EPA	Type of high efficiency air filter
FF P	Filtering face piece against particles (disposable)
FM P	Filtering mask against particles with filter cartridge
HEPA	Type of high efficiency air filter
H&S	Health and Safety
IATA	International Air Transport Association
IMDG	International agreement on the Maritime transport of Dangerous Goods
LC50	Median lethal dose
MS	Member State
OEL	Occupational exposure limit
OELV	Occupational exposure limit value
PBT	Persistent, bio-accumulative and toxic
PNEC	Predicted no-effect concentration
PROC	Process category
REACH	Registration, Evaluation and Authorisation of Chemicals
SCOEL	Scientific Committee on Occupational Exposure Limit Values
SDS	Safety Data Sheet
STOT	Specific target organ toxicity
TLV-TWA	Threshold Limit Value-Time-Weighted Average
UVCB	Substances of Unknown or Variable composition, Complex reaction products or Biological materials
VLE-MP	Exposure limit value-weighted average in mg by cubic meter of air
vPvB	Very persistent, very bio-accumulative
w/w	Weight by weight

16.3 Key literature references and sources of data

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

SAX'S - Dangerous properties of industrial materials



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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.

16.4 Training advice

Company workers have read, understood and apply the requirements of this SDS.

16.5 Relevant R-, H-, and EUH – phases

H319 Causes serious eye irritation.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.

16.6 Training advice

Read and understand SDS. If support is required, please contact the company in Section 1.3

16.6 Further information

Disclaimer

The information on this data sheet reflects the currently available knowledge and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product, including the use of the product in combination with any other product or any other process, is the responsibility of the user. It is implicit that the user is responsible for determining appropriate safety measures and for applying the legislation covering his/her own activities.

Safety Data Sheet according to Regulation (EC) No 1907/2006 (REACH) as amended by Reg 453/2010

Product Trade name: **Epoxy Grout Aggregate Filled B Pack**

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Print date: 13.01.2015

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

1.1 Product identifier

Epoxy Grout Aggregate Filled B Pack

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

1.2.1 (10) Epoxy Grout Aggregate Filled is used for the protective coating of floors.

1.3 Details of the supplier of the safety data sheet

Company name: Antel Ltd

Full address: Unit 3.5 Central Point, Kirpal Road, Portsmouth, Hants PO3 6FH

Telephone number: 0044 (0)23 9285 6110

E-mail address: safety@antel.co.uk

1.4 Emergency telephone number

Emergency telephone number: 0044 (0)23 9285 6110

Hours of operation: 0900 hrs – 1700 hrs

Service is provided in the following language: English

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

2.1.1 According to Regulation (EC) No 1272/2008

Hazard class	Hazard category	Classification procedure
Skin Corr.	1B	On the basis of test data
Acute Tox.	4	On the basis of test data
Skin sensitisation	1	On the basis of literature survey
Aquatic Chronic	3	On the basis of literature survey

Hazard statements

H314 Causes severe skin burns and eye damage

H302 Harmful if swallowed.

H332 Harmful if inhaled.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects

2.2 Label elements

According to Regulation (EC) No 1272/2008



GHS05 corrosion



GHS07

Signal word : Danger

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H314 Causes severe skin burns and eye damage
H302 Harmful if swallowed.
H332 Harmful if inhaled.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects

Precautionary statements:

P280 Wear protective gloves/protective clothing/eye protection/face protection
P305+P351+P338+P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician
P302+P352+P333+P313: IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention
P261+P304+P340+P312: Avoid breathing dust/fume/gas/mist/vapours/spray. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

2.3. Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

*

SECTION 3: Composition/information on ingredients

Description: Epoxy resin hardening agent, formulation on aliphatic polyamine basis

Composition information – main constituents				
name	EC number	CAS number	Concentration	Classification according Regulation (EC) No. 1272 (CLP)
Benzyl alcohol	202-859-9	100-51-6	25-50%	Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Irrit. 2, H319
- aminomethyl-3,5,5 - trimethylcyclohexylamine	220-666-8	2855-13-2	10-25%	Skin Corr. 1C, H314; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412
m-phenylenebis(methylamine)	216-032-5	1477-55-0	10-25%	Skin Corr. 1B, H314; Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1, H317; Aquatic Chronic 3, H412
Reaktionsprodukt von 1,3 - Benzoldimethanamin und Bisphenol-AEpichlorhydrin-Harz MG <700		113930-69-1	2.5 – 10%	Aquatic Chronic 2, H411; Acute Tox. 4, H302; Skin Sens. 1, H317
Salicylic acid	200-712-3	69-72-7	2.5 – 10%	Eye Dam. 1, H318; Acute Tox. 4, H302

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SECTION 4: First aid measures

4.1. Description of first aid measures

General notes

Following contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time,
then consult an ophthalmologist immediately. Protect uninjured eye.

Following skin contact

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap. Wash thoroughly the body (shower or bath). Remove contaminated clothing immediately and dispose of safely. After contact with skin, wash immediately with soap and plenty of water

Following inhalation

Move the person to fresh air. Dust in throat and nasal passages should clear spontaneously. Contact a physician if irritation persists or later develops or if discomfort, coughing or other symptoms persist.

Following ingestion

A suspension of activated charcoal in water, or petroleum jelly may be administered.

Wash the mouth thoroughly and drink plenty of water. In case of disease consult a physician immediately and present this safety-data sheet

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

If brought into contact with the eyes, the product causes irritation that may last for over 24 hours, and if brought into contact with the skin it causes significant inflammation with erythema, scabs, and oedema.

If brought into contact with the skin, the product may cause sensitisation of the skin.

This preparation contains low molecular weight epoxy resins. Cross sensitisation to other epoxies is possible. Avoid also exposure to spray mist and vapour.

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)

When contacting a physician, take this SDS with you.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media:

CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol resistant foam.

Extinguishing media which must not be used for safety reasons:

Water with a full water jet..

5.2. Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire. Do not inhale explosion and combustion gases. Burning produces heavy smoke.

The original ingredients or unidentified toxic and/or irritant compounds may be present in the combustion fumes.

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5.3. Advice for fire-fighters

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.
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.
Remove persons to safety.
See protective measures under point 7 and 8.

6.2. Environmental precautions

Limit leakages with earth or sand.
Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
Retain contaminated washing water and dispose it.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Rapidly recover the product, wearing protective clothing.
Suitable material for taking up: absorbing material, organic, sand
Wash with plenty of water.
Retain contaminated washing water and dispose it.

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, inhalation of vapours and mists.
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.
Contaminated clothing should be changed before entering eating areas.
Do not eat or drink while working.
See also section 8 for recommended protective equipment.
Fine dust may form explosive mixture with air. Keep away from open flames, heat and sparks.
Do not remove shrink film in hazardous locations (because of risk of static charging/discharge)

7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.
Incompatible materials: None in particular.
Instructions as regards storage premises: Adequately ventilated premises. Store above 5°C.

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7.3. Specific end use(s)

None in particular in dusty environment, wear dust mask and protective goggles.
Use protective gloves to avoid skin contact.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical systems:

No further data; see item 7.

8.1. Control parameters

Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

8.2. Exposure controls

DNELs

100-51-6 Benzyl alcohol

Dermal DNEL - worker 9.5 mg/kg / bw/d (-) (langfristig)

Inhalative DNEL - worker 90 mg/m³ (-) (langfristig)

2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Inhalative DNEL - worker 20.1 mg/m³ (-)

69-72-7 Salicylic acid

Dermal DNEL - worker 2 mg/kg / bw/d (-)

PNECs

100-51-6 Benzyl alcohol

PNEC (predicted no effect concentration) 1 mg/l (Frischwasser (freshwater))

0.1 mg/l (Meerwasser (seawater))

2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine

PNEC (predicted no effect concentration) 0.06 mg/l (Frischwasser (freshwater))

0.006 mg/l (Meerwasser (seawater))

69-72-7 Salicylic acid

PNEC (predicted no effect concentration) 0.2 mg/l (Frischwasser (freshwater))

0.02 mg/l (Meerwasser (seawater))

8.2.1 Appropriate engineering controls



8.2.2.1 Eye protection:

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



8.2.2.2 Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.
Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.
The use of LLPDE (0,06 mm), nitrile (0,4) or butyl (0,5 mm) gloves is suggested.
Latex gloves are not recommended.

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8.2.2.3 Respiratory protection: **Combination filter A-P2**

Not needed for normal use.

Not needed for normal use.

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

8.2.3 Environmental exposure controls: None

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.

8.2.4 Consumer exposure control

Exposure Scenario	PROC*	Exposure	Specification of respiratory protective equipment (RPE)	RPE efficiency - assigned protection factor (APF)
Epoxy Grout Aggregate Filled is used for the protective coating of floors	10	Duration is not restricted	Not required	-
	26		<i>Combination filter A-P2</i>	10
				-

* PROC's are identified uses and defined in section 1.2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

9.1.1 Appearance

Physical state: liquid. Colour: Clear/Amber. Odour: Amine-like. Odour threshold: N.A.

Melting point / freezing point: Not determined.

Initial boiling point and boiling range: >200°C

Flash point: > 100 °C

Ignition temperature: 380 °C Vapour pressure: N.A.

Density at 23 °C 1.06 g/cm³ (ISO 2811-2)

Solubility in water: Insoluble

Solubility in organic solvents: soluble

Viscosity: 200 mPa.s (25°C)

Explosion limits(by volume): N.A.

Decomposition temperature: > 350°C.

Explosive properties: N.A.

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9.1.3 Physical hazards

Physical hazard		Physical hazard		Physical hazard		Physical hazard	
Explosives	n/a	Gases under pressure	n/a	Oxidising liquids	n/a	Flammable aerosols	n/a
Flammable gases	n/a	Flammable liquid	n/a	Organic peroxides	n/a	Metal corrosion	n/a
Substances or mixtures which, in contact with water emit flammable gases	n/a	Flammable solids	n/a	Self reactive substances and mixtures	n/a	Self heating substances and mixtures	n/a
Oxidising gases	n/a	Pyrophoric liquids	n/a	Pyrophoric solids	n/a	Oxidising solids	n/a

9.2. Other information

Miscibility: N.A.
 Fat Solubility: N.A.
 Conductivity: N.A.
 Substance Groups relevant properties N.A.

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: Reacts with acids, alkalis and oxidizing agents

10.4. Conditions to avoid: Avoid excessive heat for prolonged periods of time. Decomposition above 350°C.

10.5. Incompatible materials: Strong oxidizing agents

10.6. Hazardous decomposition products: In the event of fire: Poisonous gases/vapours. Corrosive gases/vapours

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Route(s) of entry:
 Ingestion: Yes
 Inhalation: Yes
 Contact: Yes

LD/LC50 values that are relevant for classification:

100-51-6 Benzyl alcohol

Oral LD50 1040 mg/kg (mou) 1230 mg/kg (rat) 1040 mg/kg (rbt)
 Dermal LD50 2000 mg/kg (rbt)

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2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Oral LD50 1030 mg/kg (rat). Dermal LD50 1840 mg/kg (rab). >2000 mg/kg (rat)

1477-55-0 m-phenylenebis(methylamine)

Oral LD50 930 mg/kg (rat). Dermal LD50 3100 mg/kg (rab).

69-72-7 Salicylic acid

Oral LD50 891 mg/kg (rat). Dermal LD50 > 2000 mg/kg (rat)

Corrosive/Irritating Properties:

Skin:

The product can cause irritation by contact.

Eye:

The product can cause irritation by contact

Sensitizing Properties:

Frequent contact may cause sensitization.

Cancerogenic Effects:

No effects are known.

Mutagenic Effects:

No effects are known.

Teratogenic Effects:

No effects are known

Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

Harmful

Corrosive

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of oesophagus and stomach.

SECTION 12: Ecological information

12.1. Toxicity

12.1 Toxicity

Aquatic toxicity:

100-51-6 Benzyl alcohol

Algentoxizität (Algae toxicity)

79 mg/l (Scenedesmus quadricauda) (EC50(3h)). 640 mg/l (Alge Scenedesmus sp.) (EC50(96h))

Bakterien-Toxizität (Bacteria toxicity)

>658 mg/l (Pseudomonas putida) (EC50(16h)). 71.42 mg/l (Photobacterium phosphoreum)

(EC50(0,5h)). 400 mg/l (Pseudomonas putida) (EC50(0,5h))

Daphnientoxizität (Daphnia toxicity)

400 mg/ l (Daphnia magna (Wasser f loh)) (EC50(24h))

Fischtoxizität (Fish toxicity)

460 mg/l (Pimephales promelas) (LC50(96h)). 645 mg/l (Goldorfe (orfe)) (LC50(96h))

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10 mg/l (Lepomis macrochirus) (LC50 (96h))

2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Algentoxizität (Algae toxicity)

>50 mg/l (Scenedesmus subspicatus) (ErC50(72h))

Bakterien-Toxizität (Bacteria toxicity)

1120 mg/l (Pseudomonas putida) (EC10(18h))

Daphnientoxizität (Daphnia toxicity)

23 mg/l (Daphnia magna (Wasserfloh)) (EC50(48h))

Fischtoxizität (Fish toxicity) 110 mg/l (Leuciscus idus) (LC50(96h))

1477-55-0 m-phenylenebis(methylamine)

Algentoxizität (Algae toxicity)

20.3 mg/l (Selenastrium capricornutum) (EC50(72h))

Daphnientoxizität (Daphnia toxicity) 15.2 mg/l (Daphnia magna (Wasserfloh)) (EC50(48h))

Fischtoxizität (Fish toxicity) > 100mg/l (Ochorhynchus mykiss (Regenbogenforelle)) (LC50(96h))

87.6 mg/l (Oryzias latipes) (LC50(96)). >100 mg/l (Zebrafisch (zebra danio)) (LC50(96))

69-72-7 Salicylic acid

Algentoxizität (Algae toxicity) >100 mg/l (Desmodesmus subspicatus) (EC50 (72h))

Daphnientoxizität (Daphnia toxicity) 870 mg/l (Daphnia magna (Wasserfloh)) (EC50 (48h))

Fischtoxizität (Fish toxicity) 1380 mg/l (Pimephales promelas) (LC50 (96h))

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

PBT: Not applicable.

vPvB: Not applicable.

12.6. Other adverse effects

Not relevant.

12.7 Additional ecotoxicological effects

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.

Do not allow product to reach ground water, water bodies or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralized.

Danger to drinking water if even small quantities leak into soil. Harmful to aquatic organisms

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

Dispose of this material and its container to hazardous or special waste collection point.

Avoid release to the environment. Refer to special instructions/Safety data sheets.

91/156/EEC, 91/689/EEC, 94/62/EC and subsequent amendments.

Disposal of not hardened product (EC waste code) : 08 04 09

The suggested European waste code is just based on the composition of the product.

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According to the specific process or application field a different waste code may be necessary

SECTION 14: Transport information

UN No. 2735

Transport hazard class(es)

ADR, IMDG, IATA



Class
Label

8 (C7) Corrosive substances.
8

Packing group

· ADR, IMDG, IATA

III

Environmental hazards:

Marine pollutant:

No

Special marking (IMDDG):

No

Special marking (ADR):

No

Special marking (IATA):

No

Special precautions for user Warning: AMINES, LIQUID, CORROSIVE, N.O.S. (ISOPHORONEDIAMINE)

Danger code (Kemler):

80

EMS Number:

F-A,S-B

Segregation groups

Alkalis

Transport/Additional information:

ADR

Excepted quantities (EQ): E2

Limited quantities (LQ) 1L

Transport category 2

Tunnel restriction code E

UN "Model Regulation":

UN2735, AMINES, LIQUID, CORROSIVE,
N.O.S. (ISOPHORONEDIAMINE), 8, III

NOTE: THIS PRODUCT IS PACKAGED AND TRANSPORTED UNDER 'LIMITED QUANTITY' LQ.

14.6. Special precautions for user

Not relevant.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not relevant.

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SECTION 15: Regulatory information

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

Dir. 67/548/EEC (Classification, packaging and labelling of dangerous substances)
Dir. 99/45/EC (Classification, packaging and labelling of dangerous preparations)
Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
Dir. 2006/8/EC
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP)
Regulation (EU) n. 453/2010 (Annex I)
Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications: None
Dir. 67/548/EEC (Classification, packaging and labelling of dangerous substances). Dir. 99/45/EEC (chemical agents at work). Dir. 2000/39/EC (Occupational exposure limit values); Dir. 2006/8/CE.
Regulation (CE) n. 1907/2006 (REACH), Regulation (CE) n. 1272/2008 (CLP), Regulation (CE) n. 790/2009 (1° ATP CLP), Regulation (EU) n. 453/2010 (Annex I).
REACH Regulation (1907/2006)
REACH Regulation (1907/2006) – All. XVII: N.A.
REACH Regulation° 1907/2006 (REACH) – Art. 59 (Substances in “Candidate List”): N.A.
CLP Regulation n° 1272/2008 (CLP) and s.m.i.
Directive n° 1999/45/CE (Dangerous Preparation) and s.m.i.
Directive n° 67/548/CEE (Substances) and s.m.i.
Directive 2000/39/CE and s.m.i. (Professional threshold limit)
Directive 105/2003/CE (Seveso III): N.A.
ADR Agreement – IMDG Code – IATA Regulation
VOC (2004/42/EC) : N.A. g/l

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

16.1 Indication of changes

16.2 Abbreviations and acronyms

ADR/RID	European Agreements on the transport of Dangerous goods by Road/Railway
APF	Assigned protection factor
CAS	Chemical Abstracts Service
CLP	Classification, labelling and packaging (Regulation (EC) No 1272/2008)
COPD	Chronic Obstructive Pulmonary Disease
DNEL	Derived no-effect level
EC50	Half maximal effective concentration
ECHA	European Chemicals Agency
EINECS	European Inventory of Existing Commercial chemical Substances
EPA	Type of high efficiency air filter
FF P	Filtering face piece against particles (disposable)
FM P	Filtering mask against particles with filter cartridge
HEPA	Type of high efficiency air filter

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H&S	Health and Safety
IATA	International Air Transport Association
IMDG	International agreement on the Maritime transport of Dangerous Goods
LC50	Median lethal dose
MS	Member State
OEL	Occupational exposure limit
OELV	Occupational exposure limit value
PBT	Persistent, bio-accumulative and toxic
PNEC	Predicted no-effect concentration
PROC	Process category
REACH	Registration, Evaluation and Authorisation of Chemicals
SCOEL	Scientific Committee on Occupational Exposure Limit Values
SDS	Safety Data Sheet
STOT	Specific target organ toxicity
TLV-TWA	Threshold Limit Value-Time-Weighted Average
UVCB	Substances of Unknown or Variable composition, Complex reaction products or Biological materials
VLE-MP	Exposure limit value-weighted average in mg by cubic meter of air
vPvB	Very persistent, very bio-accumulative
w/w	Weight by weight

16.3 Key literature references and sources of data

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

SAX'S - Dangerous properties of industrial materials

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.

16.4 Training advice

Company workers have read, understood and apply the requirements of this SDS.

16.5 Relevant R-, H-, and EUH – phases

H319 Causes serious eye irritation.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

16.6 Training advice

Read and understand SDS. If support is required, please contact the company in Section 1.3



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16.6 Further information

Disclaimer

The information on this data sheet reflects the currently available knowledge and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product, including the use of the product in combination with any other product or any other process, is the responsibility of the user. It is implicit that the user is responsible for determining appropriate safety measures and for applying the legislation covering his/her own activities.

Safety Data Sheet according to Regulation (EC) No 1907/2006 (REACH) as amended by Reg 453/2010

Product Trade name: **Epoxy Grout Aggregate Filled C Pack**

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Print date: 13.01.2015

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

1.1 Product identifier

Epoxy Grout Aggregate Filled C Pack

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

1.2.1 (10) Epoxy Grout Aggregate Filled is used for the protective coating of floors.

1.3 Details of the supplier of the safety data sheet

Company name: Antel Ltd

Full address: Unit 3.5 Central Point, Kirpal Road, Portsmouth, Hants PO3 6FH

Telephone number: 0044 (0)23 9285 6110

E-mail address: safety@antel.co.uk

1.4 Emergency telephone number

Emergency telephone number: 0044 (0)23 9285 6110

Hours of operation: 0900 hrs – 1700 hrs

Service is provided in the following language: English

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

2.1.1 According to Regulation (EC) No 1272/2008

This product does not meet the criteria for classification as hazardous as defined in the Regulation EC 1271/2008 and in Directive 67/548/EEC.

This product contains less than 1% of quartz (respirable) therefore not classified.

This product should be handled with care to avoid dust generation.

Hazard class	Hazard category	Classification procedure
Not classified	-	-

Hazard statements

None..

2.2 Label elements

According to Regulation (EC) No 1272/2008

Precautionary statements:

P305+P351+P338+P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor/physician

P302+P352+P333+P313: IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

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SECTION 3: Composition/information on ingredients

Description: Quartz Sand

Composition information – main constituents				
name	EC number	CAS number	Concentration	Classification according Regulation (EC) No. 1272 (CLP)
Silicon dioxide	238-878-4	14808-60-7	>98%	
Quartz			<1%	

SECTION 4: First aid measures

4.1. Description of first aid measures

Following contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. Protect uninjured eye.

Following skin contact

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap. Wash thoroughly the body (shower or bath). Remove contaminated clothing immediately and dispose of safely. After contact with skin, wash immediately with soap and plenty of water

Following inhalation

Move the person to fresh air. Dust in throat and nasal passages should clear spontaneously. Contact a physician if irritation persists or later develops or if discomfort, coughing or other symptoms persist.

Following ingestion

Wash the mouth thoroughly and drink plenty of water. In case of disease consult a physician immediately and present this safety-data sheet

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

If brought into contact with eyes, the product causes irritation that may last for over 24 hours.

If brought into contact with the skin, the product may cause sensitisation of the skin.

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)

When contacting a physician, take this SDS with you.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

No specific extinguishing media is needed.

5.2. Special hazards arising from the substance or mixture

Non-combustible. No hazardous thermal decomposition.

5.3. Advice for fire-fighters

Avoid dry sweeping and use water spraying or vacuum cleaning systems to prevent airborne dust generation. Wear personal protective equipment in compliance with national legislation.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid airborne dust generation. Wear personal protective equipment in compliance with national legislation. See protective measures under point 7 and 8.

6.2. Environmental precautions

No special requirements.

6.3. Methods and material for containment and cleaning up

Avoid dry sweeping and use water spraying or vacuum cleaning systems to prevent airborne dust generation. Wear personal protective equipment in compliance with national legislation.

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, inhalation of dust.
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.
Contaminated clothing should be changed before entering eating areas.
Do not eat or drink while working.
See also section 8 for recommended protective equipment.
Fine dust may form explosive mixture with air. Keep away from open flames, heat and sparks.
Do not remove shrink film in hazardous locations (because of risk of static charging/discharge)

7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.
Incompatible materials: None in particular.
Instructions as regards storage premises: Adequately ventilated premises. Store above 5°C.

7.3. Specific end use(s)

None in particular in dusty environment, wear dust mask and protective goggles.
Use protective gloves to avoid skin contact.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical systems:

No further data; see item 7.

8.1. Control parameters

Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

8.2. Exposure controls

Appropriate engineering controls:
Minimise airborne dust generation. Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below the specified exposure limit. Apply organisational measures, e.g. by isolating personnel from dusty areas. Remove and wash soiled clothing.
Individual protection measures, such as personal protective equipment.

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8.2.1 Appropriate engineering controls



8.2.2.1 Eye protection:

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



8.2.2.2 Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.
Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.
The use of LLPDE (0,06 mm), nitrile (0,4) or butyl (0,5 mm) gloves is suggested.



8.2.2.3 Respiratory protection: **Combination filter A-P2**

Not needed for normal use. In case of prolonged exposure to airborne dust concentrations, wear respiratory protective equipment that complies with the requirements of European or national legislation.

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

8.2.3 Environmental exposure controls: None

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.

8.2.4 Consumer exposure control

Exposure Scenario	PROC*	Exposure	Specification of respiratory protective equipment (RPE)	RPE efficiency - assigned protection factor (APF)
Epoxy Grout Aggregate Filled is used for the protective coating of floors	10	Duration is not restricted	Combination filter A-P2	10
				-

* PROC's are identified uses and defined in section 1.2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

9.1.1 Appearance

Physical state: Solid. Colour: Grey. Odour: Odourless. Odour threshold: N.A.

Grain shape: Rounded.
pH: pH (400g/l water at 20°C) 5 – 8.
Melting point/freezing point: 1710°C

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Relative density: 2.65g/cm³
Solubility in water: Negligible.
Solubility in hydrofluoric acid: Yes.

9.1.3 Physical hazards

Pyysical hazard		Physical hazard		Physical hazard		Physical hazard	
Explosives	n/a	Gases under pressure	n/a	Oxidising liquids	n/a	Flammable aerosols	n/a
Flammable gases	n/a	Flammable liquid	n/a	Organic peroxides	n/a	Metal corrosion	n/a
Substances or mixtures which, in contact with water emit flammable gases	n/a	Flammable solids	n/a	Self reactive substances and mixtures	n/a	Self heating substances and mixtures	n/a
Oxidising gases	n/a	Pyrophoric liquids	n/a	Pyrophoric solids	n/a	Oxidising solids	n/a

9.2. Other information

Miscibility: N.A.
Fat Solubility: N.A.
Conductivity: N.A.
Substance Groups relevant properties N.A.

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: None
10.4. Conditions to avoid: None
10.5. Incompatible materials: No particular incompatibility.
10.6. Hazardous decomposition products: Not relevant.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Route(s) of entry:
Ingestion: Yes
Inhalation: Yes
Contact: Yes

Acute toxicity:

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

Skin corrosion/irritation:

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

Serious eye damage/irritation:

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

Respiratory or skin sensitisation:

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

Germ cell mutagenicity:

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

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Carcinogenicity: Based on available data, the classification criteria are not met.
Reproductive toxicity: Based on available data, the classification criteria are not met.
STOT-single exposure: Based on available data, the classification criteria are not met.
STOT-repeated exposure: Based on available data, the classification criteria are not met.
Aspiration hazard: Based on available data, the classification criteria are not met.

Additional toxicological information:
None

SECTION 12: Ecological information

- 12.1. Toxicity:** Not relevant.
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

PBT: Not applicable.
vPvB: Not applicable.

- 12.6. Other adverse effects**
Not relevant.

- 12.7 Additional ecotoxicological effects**
None

SECTION 13: Disposal considerations

- 13.1. Waste treatment methods**

Recover if possible. In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information

Transport hazard class(es) Not Clasified	
Packing group · ADR, IMDG, IATA	Not relevant
Environmental hazards:	
Marine pollutant:	No
Special marking (IMDDG):	No
Special marking (ADR):	No
Special marking (IATA):	No
<i>Special precautions for user Warning:</i> None	
<i>Danger code (Kemler):</i>	Not relevant
EMS Number:	Not relevant
Segregation groups	Not relevant
Transport/Additional information:	
Not relevant	
UN "Model Regulation":	Not relevant

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NOTE: THIS PRODUCT IS PACKAGED AND TRANSPORTED UNDER 'LIMITED QUANTITY' LQ.**14.6. Special precautions for user**

Not relevant

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not relevant.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Dir. 67/548/EEC (Classification, packaging and labelling of dangerous substances)

Dir. 99/45/EC (Classification, packaging and labelling of dangerous preparations)

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Dir. 2006/8/EC

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP)

Regulation (EU) n. 453/2010 (Annex I)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications: None

Dir. 67/548/EEC (Classification, packaging and labelling of dangerous substances). Dir. 99/45/EEC chemical agents at work). Dir. 2000/39/EC (Occupational exposure limit values); Dir. 2006/8/CE.

Regulation (CE) n. 1907/2006 (REACH), Regulation (CE) n. 1272/2008 (CLP), Regulation (CE) n. 790/2009 (1° ATP CLP), Regulation (EU) n. 453/2010 (Annex I).

REACH Regulation (1907/2006)

REACH Regulation (1907/2006) – All. XVII: N.A.

REACH Regulation° 1907/2006 (REACH) – Art. 59 (Substances in “Candidate List”): N.A.

CLP Regulation n° 1272/2008 (CLP) and s.m.i.

Directive n° 67/548/CEE (Substances) and s.m.i.

Directive 2000/39/CE and s.m.i. (Professional threshold limit)

Directive 105/2003/CE (Seveso III): N.A.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information**16.1 Indication of changes****16.2 Abbreviations and acronyms**

ADR/RID	European Agreements on the transport of Dangerous goods by Road/Railway
APF	Assigned protection factor
CAS	Chemical Abstracts Service
CLP	Classification, labelling and packaging (Regulation (EC) No 1272/2008)
COPD	Chronic Obstructive Pulmonary Disease
DNEL	Derived no-effect level
EC50	Half maximal effective concentration
ECHA	European Chemicals Agency
EINECS	European Inventory of Existing Commercial chemical Substances
EPA	Type of high efficiency air filter
FF P	Filtering face piece against particles (disposable)
FM P	Filtering mask against particles with filter cartridge

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HEPA	Type of high efficiency air filter
H&S	Health and Safety
IATA	International Air Transport Association
IMDG	International agreement on the Maritime transport of Dangerous Goods
LC50	Median lethal dose
MS	Member State
OEL	Occupational exposure limit
OELV	Occupational exposure limit value
PBT	Persistent, bio-accumulative and toxic
PNEC	Predicted no-effect concentration
PROC	Process category
REACH	Registration, Evaluation and Authorisation of Chemicals
SCOEL	Scientific Committee on Occupational Exposure Limit Values
SDS	Safety Data Sheet
STOT	Specific target organ toxicity
TLV-TWA	Threshold Limit Value-Time-Weighted Average
UVCB	Substances of Unknown or Variable composition, Complex reaction products or Biological materials
VLE-MP	Exposure limit value-weighted average in mg by cubic meter of air
vPvB	Very persistent, very bio-accumulative
w/w	Weight by weight

16.3 Key literature references and sources of data

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

SAX'S - Dangerous properties of industrial materials

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.

16.4 Training advice

Company workers have read, understood and apply the requirements of this SDS.

16.5 Relevant R-, H-, and EUH – phases

16.6 Training advice

Read and understand SDS. If support is required, please contact the company in Section 1.3

16.6 Further information

Disclaimer

The information on this data sheet reflects the currently available knowledge and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product, including the use of the product in combination with any other product or any other process, is the responsibility of the user. It is implicit that the user is responsible for determining appropriate safety measures and for applying the legislation covering his/her own activities.