

1. Product detail

Substance name:	Magply Ready-Mixed Filler Adhesive
Synonyms:	Waterglass, Mineral Filler, Joint filler, filler adhesive, potassium silicate
Main chemical name and formula:	Potassium Silicate - K ₂ O ₃ Si
Trade name:	Magply Ready-Mixed Filler Adhesive, Mineral Filler, Magply filler, Fine filler
CAS:	1312-76-1
EINECS:	215-199-1
Molecular Weight:	Not determined

Relevant uses

Use of the substance: The substance is intended for the following non-exhaustive list of uses: Building material industry, Chemical industry, Civil engineering, Paper and paint industry

Identified uses

Any uses listed are identified uses and not conclusive.

Uses advised against

None identified

Supplier details

Name: IPP Ltd.	Phone: T: 01621 776252
Address: Bradwell Hall	Fax: 01621776688
Bradwell on Sea	Web addresses: www.magply.co.uk
Essex	
CM0 7HX	

Emergency telephone number

European Emergency number: 112
National centre for Prevention & Treatment of Intoxications number:
National Chemicals Emergency Centre (NCEC): +44(0)8701906621
Emergency telephone at the company: 01621 776252
Available outside office hours: Yes

2. Hazards Identification

Classification of the substance

The product is classified and labelled according to the CLP regulation

Classification according to Regulation (EC) 1272/2008

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

Classification according to Directive 67/548/EEC

R36/37/38

Additional information

For full text of H-statements and R-phrases: see SECTION 16

Labelling according to Regulation (EC) 1272/2008

Signal word	Warning
Hazard pictogram	Not applicable
Hazard statements: H315	Causes skin irritation
H319	Causes serious eye irritation
Precautionary statements: P102	Causes serious eye irritation
P262	Do not get in eyes, on skin or on clothing
P280	Wear protective gloves/protective clothing/eye protection/face protection
P305+P351+P338: IF IN EYES	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+P352: IF ON SKIN	Remove all contaminated clothing, Wash with plenty of water/shower
P310	Immediately call a poison centre or doctor/physician
P501	Dispose of contents/container in accordance with local, regional, national and international regulation – use a registered hazardous waste carrier/licence holder, and/or contact the manufacturer.

Other hazards

The substance does not meet the criteria for PBT or vPvB substance. No other hazards identified.

3. Composition

Cas Number	EC Number	Registration Number	Identification Name	Weight % content (or range)	Classification according to 67/548/eec
1312-76-1	215-199-1	1-2119456888-17-xxxx	Potassium Silicate	>90%	R36/37/38

Cas Number	EC Number	Registration Number	Identification Name	Weight % content (or range)	Classification according to Regulation (EC) No 1272/2008 [CLP]
1312-76-1	215-199-1	01-2119456888-17-xxxx	Potassium Silicate	>90%	R36/37/38
7732-18-5	231-791-2		Water		
1317-65-3	207-439-9		Chalk		
83969-76-0	xxx-xxx-x		Filler		

4. First aid measures

General advice

No known delayed effects. Consult a physician for all exposures except for minor instances.

Following inhalation

Remove from exposure. Obtain medical attention immediately.

Following eye contact

Rinse eyes immediately with plenty of water and seek medical advice.

Following skin contact

Carefully and gently wipe the contaminated body surfaces in order to remove all traces of product. Wash affected area immediately with plenty of water. Remove contaminated clothing. If necessary seek medical advice.

Following ingestion

Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Obtain medical attention.

Most important symptoms and effects, both acute and delayed

MAGPLY READY-MIXED FILLER is not acutely toxic via the oral, dermal, or inhalation route. The substance is classified as irritating to skin and entails a risk of serious eye irritation. There is no concern for adverse systemic effects because local effects (pH-effect) are the major health hazard.

Indication of any immediate medical attention

Follow the advises given in section 4.1

5. Firefighting Measures

Extinguishing media

Suitable extinguishing media

Suitable extinguishing media: The product is not combustible. Use a dry powder, foam or CO² fire extinguisher to extinguish the surrounding fire. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

Not determined

Special hazards arising from the substance or mixture

The product does not burn

Advice for fire fighters

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Do not breath smoke, fumes and vapours. Contaminated water and debris must be disposed of in accordance with regulations.

6. Accidental release measures

Emergency Procedures

For non-emergency personnel

Adhere to personal protection rules (refer to sections 7 and 8)

Avoid contact with skin, eyes, and clothing – wear suitable protective equipment (see section 8).

For emergency responders

Ensure adequate ventilation.

Keep unprotected persons away.

Avoid contact with skin, eyes, and clothing – wear suitable protective equipment (see section 8).

Environmental precautions

Contain the spillage. Avoid uncontrolled spills to watercourses and drains (pH increase). Any large spillage into watercourses must be alerted to the Environment Agency or other regulatory body.

Don't allow product to enter soil, sewage system or any ground water course. Adhere to local governmental rules and regulations. In the case of ground contamination inform the relevant authorities immediately.

Clean up

- Plug drainage courses (blocking risk due to polymer precipitation).
- Absorb with liquid-binding material (Sand, diatomite, acid binders, universal binders, sawdust).
- Flush residues with plenty of water.
- Dispose of the residue materials according to the regulations.
- Thoroughly clear contamination.

Reference to other sections

For more information on exposure controls/personal protection or disposal considerations, please check section 8 and 13 of this safety data sheet.

7. Handling and Storage

Precautions for safe handling

Protective measures

Avoid contact with skin and eyes. Wear protective equipment (refer to section 8 of this safety data sheet). When handling tins usual precautions should be paid to the risks outlined in the Council Directive 90/269/EEC.

Keep receptacles tightly sealed. Ensure good ventilation/extraction in the workplace.

Advice on general occupational hygiene

Avoid inhalation or ingestion and contact with skin and eyes. General occupational hygiene measures are required to ensure safe handling of the substance. These measures involve good personal and housekeeping practices (i.e. regular cleaning with suitable cleaning devices), no drinking, eating and smoking at the workplace. Shower and change clothes at end of work shift.

Safe storage

The substance should be stored under dry conditions. Any contact with air and moisture should be avoided. Bulk storage should be in purpose – designed silos. Keep away from acids, significant quantities of paper, straw, and nitro compounds. Keep out of reach of children. Do not use aluminium or ferrous metals for transport or storage.

Polyethylene is a suitable material for storage and transport. Do not store in the same place with acids. Store away from metals. Keep container tightly sealed. Protect from frost. Protect from heat and direct sunlight. Storage class 12.

Specific end use(s)

For more information please see the relevant exposure scenario, available via your supplier and check section 2.1: Control of worker exposure.

8. Exposure controls

General protective and hygienic measures: Immediately remove all soiled and contaminated clothing. Avoid contact with the eyes and skin. Do not inhale vapours. Wash hands before breaks and at the end of work.

Control parameters

DNEL's

Route of exposure	Workers			
	Acute effect local	Acute effect systemic	Chronic effect local	Chronic effect systemic
Oral	Not required			
Inhalation	Not required			
Dermal	Hazard identified but no DNEL available	No hazard identified	Hazard identified but no DNEL available	No hazard identified

Route of exposure	Workers			
	Acute effect local	Acute effect systemic	Chronic effect local	Chronic effect systemic
Oral	No exposure expected	No hazard identified	No exposure expected	No hazard identified
Inhalation	No exposure expected	No hazard identified	No exposure expected	No hazard identified
Dermal	Hazard identified but no DNEL available	No hazard identified	Hazard identified but no DNEL available	No hazard identified

PNEC's

Route of exposure	PNEC	Remarks
Fresh water	7.5 mg / L	
Freshwater sediments	No PNEC available	Insufficient data available
Marine water	1 mg / L	
Marine sediments	No PNEC available	Insufficient data available
Food (bioaccumulation)	No hazard identified	No potential for bioaccumulation
Microorganisms in sewage treatment	348 mg / L	
Soil (agricultural)		
Air	Not available	

Exposure controls

Appropriate protective equipment is recommended. Eye protection equipment (e.g. goggles or visors) must be worn, unless potential contact with the eye can be excluded by the nature and type of application (i.e. closed process). Additionally, face protection, protective clothing and safety shoes are required to be worn as appropriate.

Do not eat, smoke or drink in the workplace. Please check the relevant exposure scenario via your supplier.

Appropriate engineering controls

If user operations generate dust, use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne dust levels below recommended exposure limits.

PPE

Eye/face protection

EN166 eye protective goggles . Eyewash facilities should be readily available.

Skin protection

Dermal exposure has to be minimised as far as technically feasible. The use of protective gloves (nitrile - chloroprene rubber - recommended thickness of the material: ≥ 0.5 mm), protective standard working clothes fully covering skin, full length trousers, long sleeved overalls are required to be worn.

Respiratory protection

Local ventilation is recommended. Use suitable respiratory protective device only when vapour or mist is formed

Thermal hazards

The substance does not represent a thermal hazard, thus special consideration is not required.

Environmental exposure controls

All ventilation systems should be filtered before discharge to atmosphere.

Avoid releasing to the environment.

Contain the spillage. Any large spillage into watercourses must be alerted to the regulatory authority responsible for environmental protection or other regulatory body.

For detailed explanations of the risk management measures that adequately control exposure of the environment to the substance please check the relevant exposure scenario, available via your supplier.

9. Physical and Chemical properties

Physical Properties	Chemical Properties
Appearance	White or off white liquid material of varying viscosity
Odour	Odourless
Odour threshold	N/A
pH	11.2
Melting point	Undetermined
Boiling point	100°C
Flash point	N/A
Evaporation rate	N/A
Flammability	Non flammable
Explosive limits	non explosive (void of any chemical structures commonly associated with explosive properties)
Vapour pressure	N/A
Vapour density	N/A
Relative density	1.7
Solubility in water	Soluble, miscibility carrier
Partition coefficient	Not applicable (inorganic substance)
Auto ignition temperature	No relative self-ignition temperature below 400°C
Decomposition temperature	N/A
Viscosity	Not determined
Oxidising properties	No data available

Other information Not available

10. Stability and Reactivity

Reactivity Stable under normal conditions

Chemical stability Under normal conditions of use and storage MAGPLY READYMIXED FILLER is stable.

Possibility of hazardous reactions No dangerous reactions known under normal conditions and use.

Conditions to avoid	None identified
Incompatible materials	Ferrous metals
Hazardous decomposition products	Decomposes by reaction with strong acids

11. Toxicological Information

Acute toxicity

Oral - May cause irritation of the stomach and intestines, Nausea

Dermal - Irritant

Inhalation - no data available, MAGPLY READY-MIXED FILLER is not acutely toxic. Classification for acute toxicity is not warranted.

Skin corrosion/irritation

Prolonged skin contact may cause irritation.

Serious eye damage/irritation

Can cause severe eye irritation

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

Bacterial reverse mutation assay (Ames test, OECD 471):

Negative Classification for genotoxicity is not warranted.

Carcinogenicity

No evidence of rise to a carcinogenic risk.

Classification for carcinogenicity is not warranted.

Reproductive toxicity

No evidence of reproductive effects.

Classification for reproductive toxicity according to regulation (EC) 1272/2008 is not required.

STOT-single exposure

No data available

STOT-repeated exposure

No data available

Aspiration hazard

Not known to present an aspiration hazard.

12. Ecological information

Toxicity

Acute/Prolonged toxicity to fish

No data available

Acute/Prolonged toxicity to aquatic invertebrates

No data available

Acute/Prolonged toxicity to aquatic plants

No data available

Toxicity to micro-organisms e.g. bacteria

No data available

Chronic toxicity to aquatic organisms

No data available

Toxicity to soil dwelling organisms

No data available

Toxicity to terrestrial plants

No data available

General effect

Does not accumulate in organisms

Further information

None available

Persistence and degradability

Not relevant for inorganic substances

Bioaccumulative potential

Not relevant for inorganic substances

Mobility in soil

Mobile in water environment

Results of PBT and vPvB assessment

Not relevant for inorganic substances

Other adverse effects

No other adverse effects are identified

13. Disposal Considerations

Waste treatment methods	Disposal should be in accordance with local and national legislation. Processing, use or contamination of this product may change the waste management options. Dispose of container and unused contents in accordance with applicable member state and local requirements. The used packing is only meant for packing this product; it should not be reused for other purposes. After usage, empty the packing completely.
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14. Transport information	Not classified as hazardous for transport [ADR (Road), RID (Rail), AND (inland waterways) and IMDG (Sea), (ICAO/IATA)].
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UN-Number	Not applicable
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UN proper shipping name	Not applicable
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Transport hazard class	Not applicable
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Packing group	Not applicable
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Environmental hazards	None
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Special precautions for user	Not applicable
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Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not regulated
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15. Regulation Information

Health and safety regulation	Authorisations:	Not required
	Restrictions on use:	None
	Other EU regulations:	None.
	National regulations:	Not applicable

Chemical safety assessment	No data available
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16. Other information

Data are based on our latest knowledge but do not constitute a guarantee for any specific product features and do not establish a legally valid contractual relationship.

Hazard Statements

- H315:** Causes skin irritation
H318: Causes serious eye damage
H335: May cause respiratory irritation

Precautionary Statements

- P102:** Keep out of reach of children
P280: Wear protective gloves/protective clothing/eye protection/face protection
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+P352: IF ON SKIN: Wash with plenty of water
P310: Immediately call a poison centre or doctor/physician
P501: Dispose of contents/container in accordance with local/regional/national/international regulation - use a registered hazardous waste carrier/licence holder, and/or contact the manufacturer

Risk Phrases

- R36/37/38:** Irritating to skin, Risk of irritation to eyes, skin and respiratory system.

Safety Phrases

- S2:** Keep out of the reach of children
S25: Avoid contact with eyes
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S37: Wear suitable gloves
S39: Wear eye/face protection

Abbreviations

- EC50:** median effective concentration
LC50: median lethal concentration
LD50: median lethal dose
NOEC: no observable effect concentration
WEL: workplace exposure limit
OEL: occupational exposure limit
PBT: persistent, bioaccumulative, toxic chemical
PNEC: predicted no-effect concentration
STEL: short-term exposure limit
TWA: time weighted average
vPvB: very persistent, very bioaccumulative chemical
EULA: European Lime Association