

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

	Raku Glaze	Raku Glaze	pp25kg
Product specification	Raku Glaze	Revision Date	30.01.2025
Version	2.0	Print Date	30.01.2025
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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Material number : **H009**
Trade name : **Raku Glaze pp25kg**

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

Use of the Substance/Mixture : Ceramic coating suited for firing ceramics.

1.3 Details of the supplier of the safety data sheet

Company : Milton Bridge Ltd.
Unit 9 Trent Trading Park, Botteslow St
Hanley, Stoke-On-Trent ST1 3LY
Telephone : +441782274229
E-mail address : djb@milton-bridge.co.uk
Responsible/issuing person

1.4 Emergency telephone number

In-Country Number : +(44)-1782 274229
CHEMTREC Global Number : +(1)-703-527-3887(Call Collect)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture.

Classification according to Regulation (EC) No 1272/2008

Ox. Sol 2, H272

Met. Corr. 1, H290

Skin Corr. 1B, H314

Eye Dam. 1, H318

Aquatic Acute. 1, H400 (M= 100000)

Aquatic Chronic. 1, H410 (M= 10000)

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label elements



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Signal Word: Danger

Hazard Statements:

- H272: May intensify fire
- H290: May be corrosive to metals
- H314: Causes severe skin burns and eye damage
- H318: Causes serious eye damage
- H400: Very toxic to aquatic life
- H410: Very toxic to aquatic life with long-lasting effects

Precautionary Statements:

- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P220: Keep/Store away from clothing/.../combustible materials.
- P234: Keep only in original container.
- P273: Avoid release to the environment.
- P304 + P340 + P310: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTRE or physician.
- P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTRE or physician.
- P301 +P310 + P331: IF SWALLOWED: Immediately call a POISON CENTRE or physician. Do NOT induce vomiting.
- P305 + P310: IF IN EYES: Immediately call a POISON CENTRE or physician.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Chemical nature : glass/frit, silicatic material

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
Substances with a workplace exposure limit :			
Silver Nitrate	7761-88-8 231-853-9	Ox. Sol 2, H272 Met. Corr. 1, H290 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute. 1, H400 Aquatic chronic. 1, H410	< 2

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SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Eye Contact:	Get medical attention immediately. Call a poison centre or physician. Immediately flush eyes with plenty of water, occasionally lifting upper and lower eyelids. Check for and remove contact lenses. Continue to rinse for at least 20 minutes. Chemical burns must be treated promptly by a physician.
Inhalation:	If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. In case of inhalation of decomposition products in fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin Contact:	Get medical attention immediately. Call a poison centre or physician. Flush contaminated skin with plenty of water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion:	Get medical attention immediately. Call a poison centre or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway, loosen any tight clothing.
Protection:	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-containing breathing apparatus. It may be dangerous to the person providing aid to give mouth to mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	: None known.
Risks	: None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment	: The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.
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SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media : CO₂, powder or water. Fight larger fires with alcohol resistant foam.

Unsuitable extinguishing media : None

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Oxidizing material, May intensify fire. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged into the waterway, sewer or drain. Decomposition materials may include Nitrogen Oxides, Metal Oxides

5.3 Advice for firefighters

Further information : Move containers away from fire if this is safe to do so. Use water spray to keep fire exposed containers cool. Fire fighters should use appropriate protective equipment and self contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Avoid dust formation.
Use Personal Protective equipment
Ensure adequate ventilation
Evacuate personnel to safe areas

6.2 Environmental precautions

Environmental precautions : No special environmental precautions required.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Pick up and arrange disposal without creating dust.
Sweep up and shovel.
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For personal protection see section 8.

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SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

- Advice on safe handling : For personal protection see section 8.
No special handling advice required.
Smoking, eating and drinking should be prohibited in the application area.
Store in a dry area away from foodstuffs.
- Advice on protection against fire and explosion : Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed.
- Hygiene measures : General industrial hygiene practice.

7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Electrical installations / working materials must comply with the technological safety standards.
- Advice on common storage : No special restrictions on storage with other products.
No materials to be especially mentioned.
- Other data : Keep in a dry place. No decomposition if stored and applied as directed.

7.3 Specific end use(s)

- Specific use(s) : Consult the technical guidelines for the use of this substance/mixture.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure Limits

Silver Nitrate		
	Exposure Limit (mg/m ³)	Year
EH40/2005 WELs	0.01* ‡ as Ag 8 hours	2011

* Inhalable fraction

‡ Insoluble inorganic fraction

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In accordance with the HSE Approved Code of Practice for CHIP, the recipient is reminded of their obligations under both the Health & Safety at Work Act (HSWA) and the Control of Substances Hazardous to Health Regulations (COSHH), and that the information in any safety data sheet does not constitute the users assessment of workplace risk.

8.2 Exposure controls

Personal protective equipment

Eye protection : Safety glasses

Hand protection
Remarks : For prolonged or repeated contact use protective gloves.

Skin and body protection : Protective suit

Respiratory protection : No personal respiratory protective equipment normally required.

Protective measures : Wear suitable protective equipment
When using do not eat, drink or smoke.

Environmental exposure controls

General advice : No special environmental precautions required.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance : powder

Colour : Grey

Odour : odourless

Odour Threshold : Not applicable

pH : No data available

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : Not applicable

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Evaporation rate	: Not applicable
Flammability (solid, gas)	: No data available
Burning rate	: No data available
Auto-ignition temperature	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: No data available
Relative density	: No data available
Density	: No data available
Bulk density	: No data available
Solubility(ies) Solubility in other solvents	: No data available
Partition coefficient: n- octanol/water	: Not applicable
Thermal decomposition	: No data available
Viscosity Viscosity, dynamic	: Not applicable
Explosive properties	: No data available

9.2 Other information

Refractive index	: Not applicable
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SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Stable under recommended storage conditions.
No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : No hazards to be specially mentioned.

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10.4 Conditions to avoid

Conditions to avoid : No data available

10.5 Incompatible materials

Materials to avoid : No data available

10.6 Hazardous decomposition products

Hazardous decomposition products : Stable under normal conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity

a) Oral: Non toxic – LD50 ORAL RAT >1173mg/kg

Corrosivity/Irritation

a)Eyes: Moderate irritating – Rabbit 10mg

b)Eyes: Severe irritating – Rabbit 1mg

Sensitization

No data available

Mutagenicity/Reproductive toxicity

No data available

Carcinogenicity

No data available

SECTION 12: ECOLOGICAL INFORMATION 12.1 Toxicity

Aquatic Chronic 4. May cause long lasting harmful effects to aquatic life.

12.2 Persistence and degradability

Product: Silver Nitrate

Biodegradability : Remarks: No data available

Components:

Biodegradability : Remarks: No data available

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12.3 Bioaccumulative potential**Product: Silver Nitrate**

Bioaccumulation : 70 BCF low potential

Components:

Bioaccumulation : Remarks: No data available

12.4 Mobility in soil**Product: Silver Nitrate****Components:**

Distribution among environmental compartments : Remarks: No data available

12.5 Results of PBT and vPvB assessment**Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects**Product:**Additional ecological information : Remarks: No data available
There is no data available for this product.**SECTION 13: DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

Product : Dispose of in accordance with the current Waste Disposal Regulations. (for UK special Waste Regulations 1996).

Contaminated packaging : Empty remaining contents.
Empty containers should be taken to an approved waste handling site for recycling or disposal.

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SECTION 14: TRANSPORT INFORMATION

- 14.1 UN number** : Neither banned nor restricted
Not regulated as a dangerous good
- 14.2 UN proper shipping name** : Neither banned nor restricted
Not regulated as a dangerous good
- 14.3 Transport hazard class(es)** : Neither banned nor restricted
Not regulated as a dangerous good
- 14.4 Packing group**
Not regulated as a dangerous good
- 14.5 Environmental hazards**
Not regulated as a dangerous good
- 14.6 Special precautions for user**
Remarks : No information available.
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**
- Ship type : N/A
Pollution category : N/A

SECTION 15: REGULATORY INFORMATION

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

International Chemical Weapons Convention (CWC)
Schedules of Toxic Chemicals and Precursors

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals

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REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).

: Neither banned nor restricted

REACH - List of substances subject to authorisation (Annex XIV)

: Neither banned nor restricted

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer

Regulation (EC) No 850/2004 on persistent organic pollutants

: Neither banned nor restricted

: Neither banned nor restricted

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Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Not applicable

The components of this product are reported in the following inventories:

REACH	: On the inventory, or in compliance with the inventory
CH INV	: Not in compliance with the inventory
TSCA	: Not On TSCA Inventory
DSL	: This product contains the following components that are not on the Canadian DSL nor NDSL.
AICS	: Not in compliance with the inventory
NZIoC	: Not in compliance with the inventory
ENCS	: Not in compliance with the inventory
ISHL	: Not in compliance with the inventory
KECI	: Not in compliance with the inventory
PICCS	: Not in compliance with the inventory
IECSC	: Not in compliance with the inventory
TW INV	: Not in compliance with the inventory
MY INV	: Not in compliance with the inventory
TR INV	: Not in compliance with the inventory

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Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA), CH INV (Switzerland), MY INV (Malaysia), TR INV (Turkey), TW INV (Taiwan)

15.2 Chemical Safety Assessment

Not applicable

SECTION 16: OTHER INFORMATION

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.