

**BEBBINGTONS MASONRY
WEATHERING TINT**

PRODUCT DATA SHEET

**PRODUCT
POTASSIUM SILICATE/WATER
BLACK WEATHERING TINT
(CROSFIELD K66)**

CAS NO: 1312-76-1 (anhydrous)

U.N NO: N/R

EINECS NO:2151991

IMCO CLASS:

HAZARDS: IRRITANT

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PRODUCT SPECIFICATION

Product Name Potassium Silicate

Product Grade K66

Method Index

2.2

76.2

10.2

24.2

Test Specific Gravity @ 20°C

Equivalent °TW

WT Ratio SiO₂:K₂O

Total Alkali (As K₂O)%

Silica (As SiO₂) %

1.325-1.335

65.0 - 67.0

2.00 - 2.10 :1

11.1 - 11.7

FOR INFORMATION ONLY

NOTES

Exclusion of Liability

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the use of Tennants materials in conjunction with such other materials.

Health and Safety

A Material Safety Data Sheet has been issued describing the health, safety and environmental properties of this product,

identifying the potential hazards and giving advice on the handling precautions and emergency procedures.

This must be

consulted fully before handling, storage and use.

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product: Potassium Silicate Solution K66
COMPANY: TENNANTS DISTRIBUTION LIMITED
Hazelbottom Road Botany Way
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Emergency Tel No. 01865 407333

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s)
Potassium Silicate
Water
% w/w CAS No. EINECS No. EC Classification
30 – 50 1312-76-1 215-199-1 Xi R36/37/38
50 – 70 7732-18-5 231-791-2

3. HAZARDS IDENTIFICATION

EC Classification Irritant
Alkaline

Irritating to eyes and skin

4. FIRST AID MEASURES

First Aid - Eyes

First Aid - Skin

First Aid – Ingestion

First Aid – Inhalation

Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes. Obtain medical attention

Wash affected skin with plenty of water. If symptoms develop, obtain medical attention

Do not induce vomiting. Wash out mouth and give 200 – 300 ml (half a pint) of water to drink. Obtain medical attention

Remove patient from exposure, keep warm and at rest. Obtain medical attention

5. FIRE FIGHTING MEASURES

Not applicable. Aqueous solution. Will not support combustion

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Environmental Precautions

General

Wear suitable protective clothing. Wear eye/face protection. See Also Section 8

Do not allow to enter drains, sewers or water courses. Advise Authorities if spillage has entered water course or sewer or has contaminated soil or vegetation

Caution – Spillages may be slippery. Contain spillage with sand, earth or any suitable adsorbent material. Transfer to a container for disposal or recovery

7. HANDLING AND STORAGE

Handling

Storage

Avoid contact with eyes, skin and clothing. Avoid generation of mist. Provide adequate ventilation. Have available eyewash bottle with clean water. See also Section 8

Keep at a temperature not exceeding 50°C. Do not allow material to freeze.

Provide an adequate bund wall. Unsuitable containers: Aluminium. See Also Section 10

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

General

Respirators

Skin Contact

Eye Protection

General

An exposure limit of 2 mg/m³ (15 min TWA) is recommended by analogy with potassium hydroxide

Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (dilution and local exhaust), and control of process conditions

Respiratory protection not normally required. Advice on respiratory protective equipment is given in the HSE (Health and Safety Executive) publication HS(G)53.

Wear suitable protective clothing and gloves. EN374-3, level 6 breakthrough time (>480 min). Wear suitable overalls

Chemical goggles

Wear protective equipment to comply with good occupational hygiene practice.

Do not eat, drink or smoke at the work place

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State

Odour

pH

Boiling Point

Flash Point °C Closed Cup

Flammable Limits – Lower % v/v

Solubility – Water

Colourless liquid

None

Alkaline

100°C

Not applicable

Not applicable

Soluble

10. STABILITY AND REACTIVITY

Stability

Hazardous Reactions

Hazardous Decomposition Products

Stable

When arc welding vessels containing aqueous solutions of this material, take care to control any explosion risk from hydrogen evolved by electrolysis.

Aqueous solutions will react with aluminium, zinc, tin and their alloys evolving hydrogen gas which can form an explosive mixture with air. Can react violently if in contact with acids. Can react with sugar residues to form carbon monoxide

None known

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Inhalation

Ingestion

Eye Contact

Skin Contact

The primary hazard of potassium silicate, by ingestion, inhalation, or contact with eyes and skin, is the alkalinity. The toxicity of potassium silicate is dependent on the silica to alkali ratio and on the pH. Oral LD50 (rat) values 1600 – 3200 mg/kg have been reported for similar products

Mist is irritant to the respiratory tract

Material will cause irritation

Material will cause irritation

Material will cause irritation

12. ECOLOGICAL INFORMATION

Soluble silicates, upon dilution, rapidly depolymerise into molecular species indistinguishable from natural dissolved silica.

The alkalinity of this material will have a local effect on ecosystems sensitive to changes in pH

13. DISPOSAL CONSIDERATIONS

Recommended Disposal of this product to sewage treatment works is dependent on local regulations with regard to pH controls. Dispose of this material and its container to hazardous or special waste collection point. This material is classified as hazardous waste under EEC Directive 91/689/EEC. This material is classified as special waste under the UK Special Waste Regulations 1996.

Disposal should be in accordance with local and national legislation

14. TRANSPORT INFORMATION

Not classified as dangerous goods under the United Nations Transport Recommendations

Packaging No special packaging requirements

Unsuitable containers: Aluminium

15. REGULATORY INFORMATION

EC Classification

Risk Phrases

Safety Phrases

Xi Irritant

R36/R38: Irritating to eyes and skin

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

16. OTHER INFORMATION

The Safety Data Sheets have been amended throughout. The Specification remains the same

Revision Date: 13/07/06