BRICK, MASONRY & MORTAR 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

HAZARDS: IRRITANT

Contents: Potassium Silicate, Water, Inorganic Iron Oxide



POTASSIUM SILICATE K66 PRODUCT SPECIFICATION

Product Name Potassium Silicate	
Product Grade K66	
Method Index	
2.2	
76.2	
10.2	
24.2	
Test Specific Gravity @ 20°C	1.325-1.335
Equivalent °TW	65.0 - 67.0
WT Ratio SiO2:K2O	2.00 - 2.10 :1
Total Alkali (As K2O)%	11.1 - 11.7
Silica (As SiO2) %	

EXCLUSION OF LIABILITY

Information contained in this publication is accurate to the best of the knowledge and belief of Tennants.

Any information or advice obtained from Tennants otherwise than by means of this publication and whether relating to Tennants materials or other materials, is also given in good faith. However, it remains at all times the responsibility of the customer to ensure that Tennants materials are suitable for the particular purpose intended.

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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.

Bebbington
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SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

COMPANY: TENNANTS DISTRIBUTION LIMITED

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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

Eyes: Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes. Obtain medical attention.
Skin: Wash affected skin with plenty of water. If symptoms develop, obtain medical attention.
Ingestion: Do not induce vomiting. Wash out mouth and give 200 – 300 ml (half a pint) of water to drink. Obtain medical attention.
Inhalation: 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

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

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 50oC. Do not allow material to freeze. Provide an adequate bund wall. Unsuitable containers: Aluminium. See Also Section 10.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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 and chemical goggles. Wear protective equipment to comply with good occupational hygiene practice.
Do not eat, drink or smoke at the work place

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Colourless liquid
Odour: None
pH: Alkaline
Boiling Point: 100°C
Flash Point oC Closed Cup: Not applicable
Flammable Limits – Lower % v/v: Not applicable
Solubility – Water: Soluble

10. STABILITY AND REACTIVITY

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.

11. TOXICOLOGICAL INFORMATION

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.
Inhalation: Mist is irritant to the respiratory tract
Ingestion: Material will cause irritation
Eye Contact: Material will cause irritation
Skin Contact: 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.

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14. TRANSPORT INFORMATION

Not classified as dangerous goods under the United Nations Transport Recommendations.
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

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