

# SAFETY DATA SHEET

<b>Product Name:</b>	<b>MINTRON 7</b>	<b>SDS Reference</b>	ROC04
<b>Version No.</b> 1	<b>Initial issue date</b> April 27 <sup>th</sup> , 2010	<b>Revision date</b>	

## 1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND OF THE COMPANY

**Product Name** MINTRON 7  
**Use (s)** As a cement substitute  
**Manufacturer** RockTron Ltd  
**Address** Wessex House  
Pixash Lane  
Keynsham  
BS31 1TP  
**Telephone** +44 (0) 117 9376890  
**Fax** +44 (0) 117 9866870  
**Email** rd@rktron.com  
**SDS Competent Person:** trevor@rising-hsande.co.uk

## 2. HAZARDS IDENTIFICATION

### 2.1 CLASSIFICATION OF THE MIXTURE

This product does not meet the classification requirements of the current European legislation on classification and labelling. The preparation contains substances that have a workplace exposure limit (WEL)

### 2.2 LABELLING ELEMENTS

In accordance with EC Directive 67/548/EEC (CHIP 4) and EC Regulation 1272/2008 (CLP), the product does not require labelling.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Chemical Characterisation** PULVERISED FUEL ASH (PFA), FLY ASH PLUS SURFACE MODIFIER

### Substances

<u>Chemical name</u>	<u>CAS-No</u>	<u>EINECS/ELINCS</u>	<u>Classification</u>	<u>Concentration</u>
ASHES RESIDUE	68131-74-8	268-627-4	Not classified (see section 11)	Major constituent (see section 16)
SILICON DIOXIDE (see section 8)	7631-86-9	262-373-8	WEL	45-60%

## 4. FIRST AID MEASURES

**Inhalation** If inhaled, provide fresh air, warmth, rest and if necessary, seek medical advice  
**Skin contact** Clean areas of skin affected with soap and plenty of water. if necessary, seek medical advice  
**Eye contact** Wash out eye thoroughly with plenty of water until irritation subsides; if necessary; consult an eye specialist/ophthalmologist.  
**Ingestion** If product is swallowed, do NOT induce vomiting. Drink plenty of water; if necessary, seek medical advice.

## 5. FIRE FIGHTING MEASURES

**General hazard** THE PRODUCT IS NOT FLAMMABLE OR COMBUSTIBLE  
**Extinguishing media** To suit local surroundings (e.g. carbon dioxide, foam, chemical powder for large fires)  
**Extinguishing media not to be used** None known  
**Protective equipment** Wear self-contained breathing apparatus.

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## 6. ACCIDENTAL RELEASE MEASURES

<b>Methods for cleaning up</b>	Adhere to personal protective measures. Take up as appropriate, e.g. sweep or vacuum up, into tightly closed containers. Label container and dispose of as prescribed.
<b>Environmental considerations</b>	Do not allow to get into waste water or waterways; if this occurs, inform the relevant water authority at once.

## 7. HANDLING & STORAGE

<b>Advice on safe handling</b>	Handle in accordance with good hygiene and safety practice. Avoid the raising and deposition of dust.
<b>Storage conditions</b>	Store in containers, silos or sealed bags. Keep these tightly closed, cool and dry, away damp or humid conditions.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Exposure controls</b>	Silicon dioxide is present mainly as amorphous silicates plus < 0.5% crystalline silica. Monitoring should be considered in accordance with EH40 (or equivalent) controls. LTEL (8 hour TWA): 6 mg/m <sup>3</sup> Inhalable amorphous silica EH40 (2005) LTEL (8 hour TWA): 2.4 mg/m <sup>3</sup> Respirable amorphous silica EH40 (2005) LTEL (8 hour TWA): 0.3 mg/m <sup>3</sup> Silica, respirable crystalline EH40 (2005)
<b>Engineering controls</b>	Provide adequate ventilation (e.g. local exhaust ventilation).
<b>Personal protection</b>	Observe normal standards for handling chemicals. Avoid contact with eyes and inhalation of dust. Wash hands before breaks and after work. Wear personal protective equipment appropriate to the task (see below)
<b>Eye protection</b>	Safety goggles (e.g. EN 166)
<b>Skin protection</b>	Suitable gloves (also consider your own risk assessment; e.g. breakthrough times, rates of diffusion and degradation, tasks undertaken)
<b>Respiratory protection</b>	Dust mask or respirator (e.g. EN 149:2001 FFP3) if ventilation is insufficient and dust is raised.
<b>Other protection</b>	Protective overall and safety footwear.

## 9. PHYSICAL & CHEMICAL PROPERTIES

<b>Physical form</b>	Powder
<b>Colour</b>	Light grey
<b>Odour</b>	Virtually none
<b>pH</b>	8-9 (wet or damp)
<b>Boiling pt / range</b>	Not applicable
<b>Melting pt / range</b>	Not determined
<b>Flash point</b>	Not applicable
<b>Specific gravity</b>	2.0-2.4
<b>Bulk density</b>	700-1000 kg/m <sup>3</sup>
<b>Water solubility</b>	<20g/l
<b>Moisture content</b>	< 0.5%

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## 10. STABILITY & REACTIVITY

<b>Stability</b>	Stable under normal conditions of handling.
<b>Thermal decomposition</b>	Not determined
<b>Conditions to avoid</b>	None known.
<b>Hazardous reactions</b>	None known. Polymerisation will not occur.

## 11. TOXICOLOGICAL INFORMATION

<b>Acute toxicity</b>	LD <sub>50</sub> rat (oral)	mg/kg	No data available
<b>Dermal compatibility</b>	No data available		
<b>Mucous membrane compatibility</b>	No data available.		
<b>Further information</b>	Repeated or prolonged contact with the moist product may cause irritant dermatitis. No carcinogenic, reproductive or teratogenicity effects for PFA after 60 years usage.		

## 12. ECOLOGICAL INFORMATION

<b>Acute toxicity</b>	LC <sub>50</sub>	Aquatic organisms	mg/l	No data available
<b>Degradability</b>	Not determined.			
<b>Further information</b>	Unlikely to cause adverse effects to the aquatic environment. Do not allow to get into waste water or waterways; if this occurs, inform the relevant water authority at once.			

## 13. DISPOSAL CONSIDERATIONS

<b>Advice on disposal</b>	In accordance with national and local authority regulations, e.g. The Hazardous Waste (England & Wales) Regulations 2005. PFA is included in the European Waste Catalogue, but is not hazardous waste.
<b>Contaminated packaging</b>	Treat empty containers in the same way as the product:

## 14. TRANSPORT INFORMATION

<b>United Nations number</b>	Not classified for transport.
<b>Marine pollutant</b>	The product should not be marked as a marine pollutant

## 15. REGULATORY INFORMATION

<b>Classification &amp; labelling</b>	In accordance with the Chemicals (Hazard Information and Packaging for Supply) Regulations (CHIP 4) and EC Regulation 1272/2008 (CLP), the product is not classified
<b>Other regulations</b>	Other regulatory information and provisions are not applicable for this product.
<b>Restrictions for use</b>	None known.

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<b>16. OTHER INFORMATION</b>
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<b>Further information</b>	Comply with the COSHH Regulations.  The ashes residue, formed from the beneficiation of PFA, contains mainly oxides e.g. 49-56% SiO <sub>2</sub> ; 22-28% Al <sub>2</sub> O <sub>3</sub> ; 4-10% Fe <sub>2</sub> O <sub>3</sub> ; 3-5% CaO; 1-2% TiO <sub>2</sub> ; plus 5% or less residue organic carbon compounds
<b>Sources of data</b>	Other suppliers safety data sheets, Annex VI of the CPL Regulation, EH40 (2005)
<b>Date of issue</b>	27-04-2010

**This information is based on our present state of knowledge and is intended to describe our products from the point of view of the safety requirements. It should not be construed as guaranteeing specific properties.**