

## 01 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

<b>Identification of substance</b>	Precast concrete products
<b>Product description</b>	Precast concrete paving, kerbs, channels, block paving, drainage channels, walling products & specific decorative products marketed under many different range names
<b>Manufacturer/supplier</b>	Marshalls Mono Ltd., Landscape House, Premier Way, Lowfields Business Park, Elland HX5 9HT
<b>Telephone number</b>	(+44) 01422 312 000
<b>Technical advisory services</b>	0370 411 2233

## 02 HAZARDS IDENTIFICATION

<b>Handling</b>	Care must be taken when handling precast units, especially when operating at height such as from a scaffold or tower. Risk of serious injury or death from falling objects if suitable and proper site practice is not followed and adhered to. Standard site personnel protective Equipment such as Hard Hat, Gloves, Safety footwear and safety glasses should be worn when handling or modifying the precast units.
<b>Cutting</b>	Dry cutting of hardened precast units will produce excessive amounts of dust that will contain respirable Quartz, this may constitute a chronic health hazard. Accordingly when possible dry cutting should be avoided. Long term prolonged exposure to high levels of respirable crystalline silica can also lead to an increased risk of developing silicosis and lung cancer. Any dry cutting or finishing can also result in particles being projected at high speed with the consequent risk of injury or damage. If products are hit with a trowel, bolster scotch etc, sharp chips and splinters may fly and damage skin or eyes.

## 03 COMPOSITION/INFORMATION ON INGREDIENTS

<b>Description of the preparation</b>	Sand, aggregate, cementitious material, pigments, admixtures and water are combined and processed to form dense concrete products
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## 04 FIRST AID MEASURES

<b>General advice</b>	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
<b>Inhalation (dust)</b>	Remove to fresh air and seek medical attention if required
<b>Skin contact</b>	Minor cuts and grazing can occur on sharp edges. Wash skin thoroughly with clean soap and water use a proprietary skin cleaner and apply suitable dressings. Treat with normal antiseptic if required.
<b>Eyes contact</b>	Contact lenses should be removed. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. Obtain medical attention if irritation persists.
<b>Ingestion</b>	Pre cast units: Not applicable From cutting: If dust is accidentally swallowed remove from exposure and seek medical attention if required

## 05 FIRE FIGHTING MEASURES

<b>Suitable extinguishing media</b>	Concrete is not flammable and will not facilitate combustion with other materials
<b>Precast Concrete Material Safety Data Sheet</b>	<a href="http://www.marshalls.co.uk">www.marshalls.co.uk</a>

## 06 ACCIDENTAL RELEASE MEASURES

<b>Personal precaution</b>	In the event of dust release, avoid breathing in dust. Wear dust mask/respirator and goggles.
<b>Environmental precaution</b>	No danger, but material should be disposed of in accordance with local authority guidelines
<b>Clean-up method</b>	No special requirements. Where possible use mechanical aids to reduce the risk of manual handling injury. Avoid sweeping that creates dust and vacuum dust where practical.

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## 07 HANDLING AND STORAGE

Handling	
<b>Technical condition</b>	Products are delivered on pallets, shrink-wrapped/stretch hood on specially banded or designed packs
<b>Safe handling advice</b>	The preferred method of off-loading from vehicles is by mechanical means, ensuring all lift apparatus and vehicles are capable of lifting the product within their working capacity. Care to be taken when placing packs into position avoiding dropping or banging. Banding MUST NOT be used as a lifting aid. Care should be taken when manually handling products. Good lifting practices should be followed at all times. When handling precast units gloves should be worn to prevent cuts and abrasions. Mechanical handling devices should be considered with products over 20kg in weight.
Storage	
<b>Precaution</b>	All products must be stored on a firm level surface and not on slopes or soft uneven areas. The bottom layer of any non-palletted packs should not be laid directly onto the ground but placed either on timber or similar bearers, pallets or boards.
<b>Storage condition</b>	Firm level surface – do not stack packs more than 4 high, however some decorative products are of irregular shape and an individual assessment should be made at the time of stacking. Soft, uneven surface – do not stack packs more than 2 high. An individual assessment should be made at the time of stacking as to the suitability of the ground.
<b>Packaging material</b>	Before removing shrink-wrapping or banding, ensure that the products are safe and will not fall over; end supports should be used where necessary. Shrink-wrapping/stretch hooding should be cut not torn. Banding must be removed with care and should be cut with suitable clippers and not broken by hand. Wear suitable protective gloves and eye protection. Packaging could be slippery when wet.  Note: It is difficult to cover all situations and whoever is stacking the pallets must assess the risk on how high packs are stacked and their stability.

## 08 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measure	
Control parameter	
<b>Exposure limit</b>	Total Inhalable Nuisance Dust 10.0mg/m <sup>3</sup> Total Respirable Nuisance Dust 4.0mg/m <sup>3</sup> Respirable crystalline Silica 0.10mg/m <sup>3</sup> All are given as maximum concentrations and expressed as an 8-hour time weighted average (8hr TWA)
Exposure controls	
<b>Respiratory protection</b>	When dry cutting use dust masks to a suitable BS or EN standard are recommended where operations may cause inhalation of the product
<b>Hand protection</b>	Use suitable gloves
<b>Skin and body protection</b>	Safety footwear and hard hat should be worn to protect against injury from falling precast units
<b>Eye protection</b>	Safety goggles or face shield to a suitable BS or EN Standard are recommended where operations may cause product getting into eyes
<b>Hygiene measure</b>	Wash hands before breaks and after finishing work
Engineering controls	
Use dust extraction if OES is exceeded.	

## 09 PHYSICAL & CHEMICAL PROPERTIES

General information		Important health, safety and environmental information	
<b>Appearance</b>	Solid	<b>pH</b>	Alkaline >7
<b>Colour</b>	Grey if concrete is unpigmented	<b>Relative density</b>	1.5 to 2.9 (water = 1)
<b>Odour</b>	Odourless	<b>Water solubility</b>	0.1% max. Generally considered insoluble in water

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## 10 STABILITY & REACTIVITY

<b>Stability</b>	Stable. Hardened concrete will react with most acids in a neutralization-type reaction. Heat, spattering and evolution of potentially toxic gases (such as HCl, NO or NO <sub>2</sub> ) may result depending on the acid involved. Prolonged contact of an acid with the concrete may cause etching or other damage.
<b>Hazardous decomposition products</b>	None

## 11 TOXICOLOGICAL INFORMATION

### Acute toxicity

<b>Inhalation</b>	May cause damage to mucous membranes in nose, throat, lungs and bronchial system
<b>Skin contact</b>	Prolonged contact with wet cement/mixture may cause burns
<b>Eye contact</b>	Risk of serious damage to eyes
<b>Ingestion</b>	May cause discomfort if swallowed

## 12 ECOLOGICAL INFORMATION

<b>General information</b>	The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
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## 13 DISPOSAL CONSIDERATIONS

<b>Waste treatment methods</b>	Dispose of waste and residues in accordance with local authority requirements
<b>Contaminated packaging</b>	Shrink-wrapping/stretch hooding must not be burnt, as toxic fumes are given off such as carbon monoxide, hydrocarbons and aldehydes Timber pallets on which products are transported must not be used again for any other products
<b>Further information</b>	Waste should be disposed of in accordance with local and national waste disposal regulations

## 14 TRANSPORT INFORMATION

This product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR, RID)

## 15 REGULATORY INFORMATION

<b>Symbol</b>	Xi – Irritant
<b>R-phrases</b>	R37/38 – Irritating to respiratory system and skin R41 – Risk of serious damage to eyes R43 – May cause sensitization by skin contact
<b>S-phrases</b>	S24/25 – Avoid contact with skin and eyes S26 – In case of contact with eyes, rinse immediately with plenty of water and seek medical advice S37/39 – Wear suitable gloves and eye/face protection S46 – If swallowed, seek medical advice immediately and show this container or label S51 – Use only in well-ventilated areas S56 – Dispose of the material and its container to hazardous or special waste collection point S64 – If swallowed, rinse mouth with water, only if the person is conscious

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## 16 OTHER INFORMATION

### Accordinging legislation

Health & Safety at Work etc. Act 1974  
Consumer Rights Act 2015  
Control of Substances Hazardous to Health Regulations (COSHH) 2002  
Control of Substances Hazardous to Health (Amendment) Regulations 2004  
Environmental Protection Act 1990  
HSE Guidance Note EH40 (Workplace Exposure Limits)  
Manual Handling Operations Regulations 1992 (as amended)  
Chemicals (Hazard Information and Packaging for Supply) Regulations 2009

### Important remarks

EH40: Workplace Exposure Limits  
A step-by-step guide to COSHH Assessment (HS(G)97)  
The information and data in this Safety Data Sheet are based on current scientific and technical state of the art and are believed to be accurate at the printing date.  
The information refers solely to the product indicated and constitutes no guarantee of particular quality.  
It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.  
This MSDS cancels and replaces any preceding release.

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