



MATERIAL SAFETY DATA SHEET

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of substance	Precast concrete products
Product description	Precast concrete paving, kerbs, channels, block paving, drainage channels, walling products & specific decorative products marketed under many different range names
Manufacturer/Supplier	Marshalls Mono Ltd, Landscape House, Premier Way, Lowfields Business Park, Elland, HX5 9HT
Telephone number	(01422) 312000
Technical Advisory Services	0370 411 2233

2 HAZARDS IDENTIFICATION

Most important hazards	Cutting of hardened product will produce excessive amounts of dust that will contain respirable Quartz, this may constitute a chronic health hazard 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 cutting or finishing can also result in particles being projected at high speed with the consequent risk of injury or damage
------------------------	--

3 COMPOSITION/INFORMATION ON INGREDIENTS

Description of the preparation	Sand, aggregate, cementitious material, pigments, admixtures and water are combined and processed to form dense concrete products
--------------------------------	---

4 FIRST AID MEASURES

General advice	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person
Inhalation (Dust)	Remove to fresh air and seek medical attention if required
Skin contact	Wash skin thoroughly with soap and water or use a proprietary skin cleaner and apply suitable dressings
Eye contact	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
Ingestion	If accidentally swallowed remove from exposure and seek medical attention if required

5 FIRE-FIGHTING MEASURES

Suitable extinguishing media Concrete is not flammable and will not facilitate combustion with other materials

6 ACCIDENTIAL RELEASE MEASURES

Personal precaution	In the event of dust release, avoid breathing in dust. Wear dust mask/respirator and goggles
Environmental precaution	No danger, but material should be disposed of in accordance with local authority guidelines
Method for cleaning up	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

7 HANDLING AND STORAGE

Handling

Technical condition	Products are delivered on pallets, shrink-wrapped on specially banded or designed packs
Safe handling advice	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. Mechanical handling devices should be considered with products over 20kg in weight

Storage

Precaution	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
Storage condition	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
Packaging material	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 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

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

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measure	Use dust extraction if OES is exceeded	
Control parameter		
Exposure limit	Total Inhalable Nuisance Dust	10.0mg/m ³

Total Respirable Nuisance Dust 4.0mg/m³
 Respirable crystalline Silica 0.10mg/m³
 All are given as maximum concentrations and expressed as an 8-hour time weighted average (8hr TWA)

Personal protection equipment	
Respiratory protection	Dust masks to a suitable BS or EN standard are recommended where operations may cause inhalation of the product
Hand protection	Use suitable gloves
Skin and body protection	Safety footwear should be worn to protect against injury from falling precast units
Eye protection	Safety goggles or face shield to a suitable BS or EN Standard are recommended where operations may cause product getting into eyes
Hygiene measure	Wash hands before breaks and after finishing work

9 PHYSICAL AND CHEMICAL PROPERTIES

General information

Appearance	Solid
Colour	Grey if concrete is unpigmented
Odour	Odourless

Important health, safety and environmental information

pH	Alkaline >7
Relative density	1.5 to 2.9 (water = 1)
Water solubility	0.1% max. Generally considered insoluble in water

10 STABILITY AND REACTIVITY

Stability	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 ₂) may result depending on the acid involved. Prolonged contact of an acid with the concrete may cause etching or other damage
Hazardous decomposition products	None

11 TOXICOLOGICAL INFORMATION

Acute toxicity

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

12 ECOLOGICAL INFORMATION

General information	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
---------------------	---

13 DISPOSAL CONSIDERATIONS

Waste/unused products	Dispose of waste and residues in accordance with local authority requirements
Contaminated packaging	Shrink-rapping 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
Further information	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

Symbol	Xi – Irritant
R-phrases	R37/38 – Irritating to respiratory system and skin R41 – Risk of serious damage to eyes R43 – May cause sensitization by skin contact
S-phrases	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

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.

History

First edition date	01/07/2007
Previous revision date	01/01/2010
Review date	01/01/2021
Version	2