

PRODUCT SAFETY DATA SHEET

ISSUE DATE – APRIL 2018

SECTION 1 – IDENTIFICATION OF PRODUCT AND COMPANY DETAILS

PRODUCTS: Durisol D170 Standard and Face Block Variants
Durisol D250 Standard and Face Block Variants
Durisol D300 Standard, Face and Corner Block Variants
Durisol D365 Standard, Face and Corner Block Variants

COMPANY: Durisol UK Limited
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SECTION 2 – HAZARDS IDENTIFICATION

Not deemed hazardous in relation to Regulation (EC) 1272/2008 (CLP)

Product components listed in the table below:

Substance Name	CAS Number	EC Number	Proportion by Weight
Portland Cement	65997-15-1	N/A	55-60%
Softwood (Chipped)	N/A (See HSE EH40 Paras 41-42)	N/A	34-39%
Aluminium Sulphate	10043-01-3	233-135-0	Less than 1%
Hydrated Lime	1305-62-0	215-137-3	Less than 1%
Limestone (Crushed Grit)	1317-65-3 14808-60-7	N/A	0-4%

SECTION 3 – COMPOSITION

Durisol is an ICF building block made of a mixture of inert softwood aggregate, portland cement, and minor mix additives. It is manufactured in a range of sizes and is used to build walls that act as a means of permanent formwork to contain structural concrete that is poured into the Durisol forms after they have been built to the desired size and layout.

The D300 and D365 variants also contain a foil faced PIR insulation insert to provide an upgraded degree of thermal efficiency.

SECTION 4 – FIRST AID MEASURES

Inhalation	Remove from exposure to outside air, if any irritation persists seek medical advice.
Ingestion	Drink water and seek medical attention.
Skin Contact	Wash with soap and water.
Eye Contact	Irrigate thoroughly with ample quantity of eye wash solution or clean water, if irritation occurs seek medical attention.

SECTION 5 – FIRE FIGHTING MEASURES

Durisol products are non-combustible in the final constructed state and thus no special fire-fighting method, extinguisher type is required.

Note however that any PIR insulation removed from the Durisol or left exposed is combustible as set out in Euroclass E and can be extinguished with water, foam or CO2.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Use control measures set out in section 8 of this document whenever dealing with accidental release events. Should dust be created outside of intended working control measures then it should be damped down prior to removing. Dust can be vacuumed up using a suitable vacuum cleaner with a HEPA filter.

It is essential that dust is not disturbed by dry sweeping as this could lead to it becoming airborne. This is particularly important when working in internal or enclosed spaces.

SECTION 7 – HANDLING AND STORAGE

Mechanical Handling

Durisol wall forms are delivered in pre-wrapped pack sizes of approximately 1.0m x 1.0m x 1.2m each with its own pallet for ease of mechanical handling on site.

Mechanical grabs must NOT be used to handle the blocks at any time, lifting should only be done using the pallet provided with the product and whilst the blocks remain wrapped in the factory applied binding film.

The packs MUST be placed on firm, level ground that is sufficient to support the weight of the material. Do not stack Durisol more than 2 packs high.

When stacking Durisol, it is your responsibility to ensure that the packs are not at risk of toppling over. This may require a risk assessment to be carried out by a suitably competent person.

There is no requirement to cover the stored packs of Durisol.

Care should be given to assess such risks posed by unstable ground or overhead power lines.

Manual Handling

The unit weight of Durisol blocks are not generally in excess of what a competent and capable building operative should be able to handle. However, as with all manual handling situations it is prudent to make an assessment of the work being done based on an individual worker's capacity and abilities, along with the degree of repetition, whether any work is being done at a physical disadvantage (such as whilst twisting, bending or at extended reach for example) and over how long a period of time. If in doubt, substitute manual lifting for mechanical aids wherever possible and consider taking advantage of lifting tackle or two person lifting as part of the work process.

SECTION 8 – EXPOSURE CONTROLS/ PERSONAL PROTECTION

Substance Name	CAS Number	Workplace Exposure Limit (T.W.A – 8 Hours)
Portland Cement	65997-15-1	Inhalable Dust – 10mg/m ³ Respirable Dust – 4mg/m ³
Softwood (Chipped)	N/A (See HSE EH40 Paras 41-42)	Softwood Dust – 5mg/m ³
Limestone (Crushed Grit)	Calcium Carbonate 1317-65-3	Calcium carbonate Inhalable Dust – 10mg/m ³ Respirable Dust – 4mg/m ³
	Crystalline Silica 14808-60-7	Silica Crystalline Respirable Dust – 0.1mg/m ³
PIR Foil Face Insulation	N/A	Declared non-hazardous by producer

Durisol can be rough in texture when handled and can also release dust when cut using mechanical tools. When cutting mechanically, the use of Alligator saws minimise release of fine particles. The use of rotary abrasive wheel cutters should be avoided as this creates greater quantities of fine dust. Cutting of Durisol should be carried out only in outside air or highly ventilated spaces. It is also recommended that a vacuum attachment be used in conjunction with mechanical cutting tools. Dust from cutting should be damped down before removal, dry sweeping should always be avoided, the use of a HEPA vacuum cleaner is recommended.

The use of local extract/ task ventilation should be considered if existing ventilation of the work area is not sufficient. Cutting and working zones should be set up if it is necessary to segregate any persons who are not wearing suitable PPE from the Durisol work areas.

When using Durisol the following PPE should be used;

At all times when working with Durisol blocks

- Safety footwear – Recommend footwear with a safety toe and sole.
- Gloves – We recommend the use of gloves compliant with EN388 performance level 3 or 4.

Only when cutting or modifying Durisol blocks

- Respiratory Protection – Recommended EN149 FFP3 rated dust mask, this is to be face fit tested to operatives to ensure an effective fit.
- Eye protection – Safety glasses compliant with EN166 with an impact rating of F or better.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Durisol is a solid material, brown-grey in colour formed into hollow block forms.

Material has a typical dry density of 550 – 650 kg/m³.

Material is odourless, non-soluble and of a stable form.

SECTION 10 – STABILITY AND REACTIVITY

Product is considered stable under recommended use and handling conditions.

Product is considered non-reactive under recommended use and handling conditions.

SECTION 11 – TOXICOLOGICAL INFORMATION

Eyes: – Dust may cause irritation and discomfort.

Skin: – Abrasive, brief or occasional contact is unlikely to be harmful.

Inhalation: – Repeated exposure above the W.E.L stated in Section 8 could lead to the development of Silicosis and other respiratory irritation or sensitivities.

Ingestion: - Unlikely to be harmful.

SECTION 12 – ECOLOGICAL INFORMATION

When this product is stored, handled, used and disposed of correctly, there should be no environmental or ecological impact .

SECTION 13 – DISPOSAL CONSIDERATIONS

Can be disposed of as an inert wood/ mineral/ hardened cement mix at any EA licensed waste processing facility. Durisol is a non-hazardous waste item.

SECTION 14 – TRANSPORT INFORMATION

Durisol products are not classified as dangerous or hazardous goods whilst in transit under any current legislation.

SECTION 15 – REGULATORY INFORMATION

No additional specific regulations apply to Durisol but due regard must be given to all relevant regulations in force at the current time. It is the responsibility of the user to ensure that they are suitably competent and aware of all regulations relevant to their activities. See Section 16 below for more information.

SECTION 16 – OTHER INFORMATION

Additional guidance can be found in the Durisol Guide to Building or by attending one of our regular free training days.

The following list of regulations, although not exhaustive, should be considered and complied with as and when relevant:

- **Health and Safety at Work Act**
- **CDM Regulations**
- **Management of Health and Safety at Work Regulations**
- **Provision and Use of Work Equipment Regulations**
- **Work at Height Regulations**
- **PPE Regulations**

The following HSE publications may also be of use when using this product.

- **EH40 Work exposure levels**
- **Control of exposure to silica dust**
- **EH44 Dust in the workplace**