

Material Safety Data Sheet



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SAFETY DATA SHEET

12/ 3/2004

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

DOW CHEMICAL COMPANY LTD

2 HEATHROW BOULEVARD
284 BATH ROAD
WEST DRAYTON
MIDDLESEX
UB7 0DQ

24 HOUR EMERGENCY RESPONSE NUMBER : +44-1553-761-251

For product information: +44-0208-917-5000

Product Name: FLOORMATE* 700-A

LV70: 72687

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Use of the substance/preparation Thermal insulation.

2. COMPOSITION/INFORMATION ON INGREDIENTS

Extruded polystyrene foam blown with carbon dioxide and containing a halogenated flame retardant system

3. HAZARDS IDENTIFICATION

This product is not hazardous to health and environment according to EC criteria.

4. FIRST-AID MEASURES

Never give fluids or induce vomiting if patient is unconscious or is having convulsions.

Skin Contact

Wash skin with plenty of water.

Eye Contact

Flush eyes thoroughly with water for several minutes. Remove contact lenses after initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.

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Ingestion

If swallowed, seek medical attention. May cause gastrointestinal blockage. Do not give laxatives. Do not induce vomiting unless directed to do so by medical personnel.

Inhalation

Move person to fresh air; if effects occur, consult a physician.

Note to Physician

No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

5. FIRE-FIGHTING MEASURES**Extinguishing Media**

Water. Carbon dioxide. Dry chemical fire extinguishers.

Hazardous Combustion Products

Dense smoke is produced when product burns.

Under fire conditions polymers decompose. The smoke may contain polymer fragments of varying compositions in addition to unidentified toxic and/or irritating compounds.

Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide.

Studies have shown that the products of combustion of this foam are not more acutely toxic than the products of combustion of common building materials, such as wood.

Protection of Firefighters

Wear positive-pressure self-contained breathing apparatus and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves).

Specific Methods of Firefighting

Apply large volume of water directly on flame or burning surface. Soak thoroughly with water to cool and prevent reignition.

6. ACCIDENTAL RELEASE MEASURES

Recover if possible, or dispose of according to applicable regulations, see Section 13, DISPOSAL CONSIDERATIONS.

7. HANDLING AND STORAGE

Handling

WARNING: Fabrication methods which involve cutting into this product will release flammable processing aids remaining in the cells. This relates to the immediate vicinity of the cutting/grinding zone and to any confined space where shavings are kept (i.e. vessels and associated piping, big bags). Provide adequate ventilation to assure that localised concentrations in release areas are maintained as low as possible. Certain operations such as grinding or cutting, may lead to build-up of dust which could cause a dust explosion. Provide adequate local ventilation and appropriate dust handling systems.

This product is combustible and may constitute a fire hazard if improperly used or installed. When installed, this product should be adequately protected as directed by national building regulations or instructions in the specific application brochure.

Storage

During shipment, storage, installation and use, this material should not be exposed to flame or other ignition sources. This material contains a halogenated flame retardant additive system to inhibit accidental ignition from small fire sources.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

Good general ventilation should be sufficient for most conditions. Local exhaust ventilation on the equipment is necessary for processing operations such as cutting and grinding, to control the exposure to dust and fumes.

Personal Protective Equipment

- Respiratory Protection

In dusty or misty atmospheres, use an approved particulate respirator.

- Skin Protection

No precautions other than clean body-covering clothing should be needed.

- Eye/Face Protection

Eye protection should not be necessary. For fabrication operations safety glasses are recommended.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: rigid multicellular board
Colour	: blue
Odour	: none
Density	: 20-70 kg/m3
Storage temperature	: -50-+75 deg.C
Shelf-life	: >100 months
Softening point/range	: >+75 deg.C
Melting point/range	: >+75 deg.C
Decomposition temp.	: +285 deg.C
Flash point	: +346 deg.C
Auto-ignition temp.	: +491 deg.C
Water solubility	: insoluble
pH	: not applicable

10. STABILITY AND REACTIVITY

Chemical Stability
Thermally stable at typical use temperatures.

Conditions to Avoid
Maximum use temperature: 75 deg.C.
Exposure to elevated temperatures can cause product to decompose.
Avoid direct sunlight.

Materials to Avoid
Aromatic hydrocarbons. Higher (C5) aliphatic hydrocarbons. Esters.
Amines. Aldehydes.

Hazardous Decomposition Products
Does not normally decompose.
In smouldering or flaming conditions, carbon monoxide, carbon dioxide, carbon are generated.
Evolution of small amounts of hydrogen bromide occurs when burned or heated to over 250 deg.C.

11. TOXICOLOGICAL INFORMATION

Skin Contact
Essentially nonirritating to the skin.
Mechanical injury only.
Skin absorption is unlikely due to physical properties.

Eye Contact
Solid or dust may cause irritation or corneal injury due to mechanical action.

Inhalation

Dust may cause irritation to upper respiratory tract (nose and throat). Fumes/vapours released during thermal operations such as hot wire cutting may cause eye and respiratory irritation.

12. ECOLOGICAL INFORMATION**Mobility and Bioaccumulation Potential**

There is no evidence of any significant leaching, therefore it is unlikely to contaminate ground water.

Degradation

Material is not biodegradable in the environment.

Exposed to intense sunlight over prolonged periods the surface of the product degrades into fine dust.

Aquatic Toxicity

Despite the absence of biodegradability the product should not present an environmental hazard in the water/soil compartment.

In the aquatic environment, this product should not present problems because of extremely low solubility.

Blowing Agent

Carbon dioxide is not usually considered a toxic gas.

Carbon dioxide occurs naturally in the environment.

13. DISPOSAL CONSIDERATIONS

Whilst all efforts to recycle the material should be made, it should be noted however, that this material contains a specific additive (flame retardant) and therefore should not be recycled with other plastics. Disposal of packaging materials should also be carried out in a manner appropriate to the type of material.

Customers are advised to check their local legislation governing the disposal of waste materials. May be disposed of at approved landfills or preferably by incineration under approved conditions. If incinerated, it is recommended that the flue gases be treated by a scrubber before exhausting to the atmosphere.

14. TRANSPORT INFORMATION

Product is not classified for any mode of transportation.

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15. REGULATORY INFORMATION

EC Classification and User Label Information

This product does not require classification according to the criteria of the Commission of the European Communities.

EINECS Status

All components of this product are in compliance with EINECS.

16. OTHER INFORMATION

No other information.

The information herein is given in good faith and to the best of our knowledge but no warranty, express or implied, is made.