

# Safety Information Lucofin® 1451 HFFR

## 1. Identification of Substance/Preparation and the Company/Undertaking

Trade Name: Lucofin 1451 HFFR

Application of the substance/the preparation (\*): HFFR compound for cable extrusion

Uses advised against: No additional information available

Supplier:

LUCOBIT AG

Brühler Str. 60

50389 Wesseling

Germany

Phone: +49 (0) 22 36/3 78 59 0

Emergency information:

Basell Werkfeuerwehr Wesseling

Phone: +49 - 22 36-72-25 55

## 2. Potential hazards

Classification of the substance or mixture: The product is not classified as hazardous according to the provisions of Regulation (EC) No 1272/2008 (CLP) (and subsequent amendments and adaptations).

Labelling elements: The product is not subject to labelling according to Regulation (EC) No. 1272/2008.

Other hazards: No hazards requiring special mention. It is recommended that vapours generated by the hot melt are extracted at the point of emission or formation using a suitable device.

## 3. Composition / Information on ingredients

Mixtures Chemical characterisation: Halogen-free polyolefin compounds with fire-retardant fillers as granules for the sheathing of cables and wires. The mixture contains no hazardous components that require labelling.

## 4. First aid measures

Description of first aid measures

General information: Consult a doctor if symptoms persist.

After inhalation: If the granules are inhaled, there is a risk of blockage of the respiratory tract and not due to the risk of a chemical reaction of the individual components of the mixture. If processing vapours are inhaled and the person feels unwell, move the person to fresh air.

After skin contact: No special measures required. If there is skin contact with the hot molten material, please treat as a burn.

After eye contact: The main danger lies in the impact of the granulate on the eye, but not in the chemical reaction of the components. No other special measures are required.

After ingestion: No special measures required.

Important symptoms and effects, both acute and delayed: No specific information on symptoms and effects caused by the product is known.

Indication of any immediate medical attention and special treatment needed:

Inhalation: Seek medical advice if granules cannot be removed from airways.

Skin contact: Seek medical attention if contact with hot molten material has occurred. In other cases this is not necessary (only in case of irritation due to individual oversensitisation).

Eye contact: Consult a doctor in case of irritation, pain or problems with vision.

## 5. Fire fighting measures

Extinguishing media: Water, foam, CO<sub>2</sub> or powder. CO<sub>2</sub> or powder There are no known unsuitable extinguishing agents. The ideal extinguishing method must be chosen in relation to the local conditions where the fire started (e.g. avoid water in the vicinity of electrical equipment).

Special hazards arising from the substance or mixture: The product is self-extinguishing under normal ambient con-

# Safety Information Lucofin® 1451 HFFR

ditions, but may continue to burn in contact with other combustible materials. In this case, carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), aluminium oxide (Al<sub>2</sub>O<sub>3</sub>) and other substances may be released from the product. The combustion and decomposition products may be harmful to health. Advice for firefighters: Use suitable self-contained breathing apparatus for firefighting.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Avoid dust formation. Particular risk of slipping from leaked/spilled product.

Environmental precautions: Do not allow to enter drains or water courses.

Methods and material for containment and cleaning up: Mechanically collect. Thoroughly clean contaminated objects and floor in accordance with environmental regulations.

Reference to other sections: Pay attention to safety regulations (see sections 7 and 8).

## 7. Handling and storage

Precautions for safe handling: No special measures are required for safe storage and handling. Hygiene regulations must be observed (do not eat, drink or smoke at the workplace).

Conditions for safe storage, including any incompatibilities: There are no special hazards associated with storage. In order to maintain the technical properties of the product, it is advisable to store the product in sealed packaging in dry, well-ventilated rooms, protected from sunlight and sources of heat and moisture. In the event of water absorption due to moisture, it may be necessary to dry the product before use.

Specific end uses: No additional information available.

## 8. Exposure controls and personal protection (\*)

Parameters to be monitored In the context of the original physical state of the product, there are no occupational exposure limits as the ingredients are dispersed and encapsulated in the granules.

Exposure controls Personal protective equipment:

|                         |              |
|-------------------------|--------------|
| Respiratory protection: | Not required |
| Hand protection:        | Not required |
| Eye protection:         | Not required |
| Body protection:        | Not required |

See also section 7. Precautions for safe handling

## 9. Physical and chemical properties (\*)

Information on basic physical and chemical properties

|                                   |   |
|-----------------------------------|---|
| Physical state:                   | Granules                                  |
| Colour:                           | White to off-white                        |
| Odour:                            | Slightly perceptible                      |
| H-value:                          | Not applicable                            |
| Melting point:                    | Approx. 100 °C (depending on formulation) |
| Freezing point:                   | Not applicable                            |
| Boiling point:                    | Not applicable                            |
| Flash point:                      | Not applicable                            |
| Spontaneous ignition temperature: | No data available                         |
| Decomposition temperature:        | No data available                         |
| Flammability (solid, gas):        | No data available                         |
| Vapour pressure:                  | No data available                         |
| Density:                          | 1.55 g/cm <sup>3</sup> @20 °C             |
| Solubility:                       | Practically insoluble in water            |
| Viscosity, kinematic:             | No data available                         |
| Viscosity, dynamic:               | No data available                         |
| Explosive properties:             | No data available                         |
| Oxidising properties:             | No data available                         |
| Explosion limits:                 | No data available                         |

# Safety Information Lucofin® 1451 HFFR

Other information: None known.

## 10. Stability and reactivity

Reactivity: The product does not cause hazardous reactions under normal conditions of storage and use.

Chemical stability: The product is stable under normal conditions of storage and use.

Possibility of hazardous reactions: The product does not cause hazardous reactions

Conditions to avoid: The product will begin to decompose at approximately 185°C. This may occur at lower temperatures with prolonged exposure to heat. With prolonged exposure to heat, this may also occur at lower temperatures.

Incompatible materials: Avoid contact with strong oxidising agents which may cause decomposition of the product.

Hazardous decomposition products: Thermal decomposition is highly dependent on process conditions and may release hazardous fumes, mainly carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>) and aluminium oxide (Al<sub>2</sub>O<sub>3</sub>).

## 11. Toxicological information

Information on toxicological effects: The literature does not indicate any toxicological effects on health following contact with the product. The granules are generally harmless, as the ingredients are incorporated and encapsulated in the compound under normal conditions of use and cannot be absorbed by the user.

Hazardous ingredients (see sections 2 and 3) are bound in the mixtures available as granules. The data refer to the state as raw material before incorporation into the HFFR mixture.

## 12. Ecological information

Toxicity: No data available.

Persistence and degradability: The product is not biodegradable and generally does not decompose by weathering and/or micro-organisms.

Bioaccumulative potential: No data available.

Mobility in soil: No data available.

Results of PBT and vPvB assessment: No data available.

Other adverse effects: Do not allow uncontrolled release of product into the environment.

## 13. Disposal considerations

Waste treatment methods

Product disposal: Recovery and recycling of the product is recommended. The product can be completely recycled in suitable recycling facilities. For disposal, observe the local regulations as specified in the relevant European Waste Catalogue (EWC) and contact a suitable disposal company for industrial waste.

Waste code (EWC code): 20 01 39

Waste designation: Plastics

Disposal Packaging: Completely emptied packaging can be recycled.

## 14. Transport information (\*)

Land and rail transport ADR/RID No dangerous goods

Sea transport IMDG/GGV See

The product is not subject to transport regulations for sea transport. Air transport ICAO/IATA

The product is not subject to air transport regulations.

## 15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture.

Labelling according to GefStoffv/EC: Not required as it is not a dangerous preparation

H symbols: none H phrases: none

P phrases: none

National regulations: Information on employment restrictions: none

Accident regulation: -

VbF-Group: - Class: -

A-Air: - Paragraph: -

# Safety Information Lucofin® 1451 HFFR

Water hazard class: Generally not hazardous to water, (self-classification)

Other regulations: The product is not a hazardous substance within the meaning of the Hazardous Substances Ordinance.

Chemical safety assessment: A chemical safety assessment has not been carried out for this mixture.

## 16. Other information

See product data sheets for the individual HFFR mixture types.

All information corresponds to the current state of our knowledge and experience. They describe our product with regard to properties and application, but do not contain any guarantee of properties. The information refers to the product before processing, but may change when the product is processed. No guarantee is given for faultlessness, reliability and completeness. The user must satisfy himself that all statements are suitable and complete for his particular application. Our general terms and conditions of sale and delivery apply to warranty and liability.