

Material Safety Data Sheet

Lucobit® 1221

1. Substance/preparation and company name

Lucobit® 1221

Company:

LUCOBIT AG

Brühler Str. / Basell GmbH B100

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. Composition/information on ingredients

Chemical nature: Mixture of: ethylene - copolymer (50 - 80 %) and bitumen (20 - 50 %) and additives

Hazardous ingredients: -

3. Possible hazards

Critical hazards to man and the environment: -

4. First aid measures

If inhaled: none

On skin contact: Burns caused by molten material require hospital treatment.

On contact with eyes: Wash affected eyes for at least 15 minutes under running water with eyelids held open.

5. Fire fighting measures*

Suitable extinguishing media: Water haze, Foam, Chemical powder

Dry extinguishing media: only in the case of incipient fires

Unsuitable extinguishing media for safety reasons: water jet

The following can be given off in a fire: CO, CO₂ and carbon black

Protective equipment: Use a mask with universal filter. Use self-contained breathing apparatus within confined rooms.

Additional information Heat value: 12,2 kWh/kg

6. Accidental release measures

Personal precautions: -

Environmental precautions: -

Methods for cleaning up: Sweep/shovel up to prevent slipping.

7. Handling and storage*

Handling:

Information for safe handling: No special requirements necessary, if handled at room temperature. When bringing the material to processing temperatures gases might develop, forming:

- ▶ ethylene and alkenes of higher molecular weight
- ▶ traces of formaldehyde and acrylaldehyde
- ▶ traces of acids (Formic acid, acetic acid)

Provide appropriate ventilation for such processing conditions. Take precautionary measures against explosion risks, as all types of polymers may develop dust during transporting or grinding of granules.

Storage:

Requirements to be met by storerooms and containers: Take precautionary measures to prevent the formation of static electricity. Do not smoke. Ground equipment electrically. Open flames prohibited.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Protect from heat and direct sunlight. Store container in a well ventilated position. Store under dry conditions. Storage containers should be stacked at a maximum of two high.

Storage class:

Class according to regulation on inflammable liquids: void

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8. Exposure controls and personal protection

Additional information on the lay-out of technical plant: see point 7

Components with workplace control parameters: -

Personal protective equipment: -

General safety and hygiene measures: Provide appropriate exhaust ventilation at machinery. Gaseous products of degradation can be given off if the product is greatly overheated. Avoid inhalation.

9. Physical and chemical properties*

Form: granular

Colour: black

Odour: slightly oily

Change in physical state:-

Melting point/range: 50 - 140 °C (DSC)

Boiling point/range: not applicable

Flash point: not applicable

(see attachment to guideline 92/69/EEC, A.9)

Ignition temperature: > 360 °C

Density: (23 °C), 0.90 - 0.97 g/cm³ (DIN 53 479)

Bulk density: 350 - 650 kg/m³ (DIN 53 466)

Additional information: Soluble in boiling, aromatic chlorinated solvents.

10. Stability and reactivity*

Conditions to avoid: -

Thermal decomposition / conditions to be avoided: The product is stable when handled and stored under normal conditions. Decomposes over 360 °C. Formation of ignitable gases/vapours.

Substances to avoid: -

Hazardous reactions: Dust explosion hazard. Fine particle material (dust) should not be allowed to accumulate, particularly when transported pneumatically.

Class: ST 1

Hazardous decomposition products: monomers, ignitable gases/vapours

11. Toxicological information*

Acute toxicity: none

Primary irritant effect:

▶ on the skin: no irritant effect.

▶ on the eye: no irritant effect.

Sensitization: no sensitizing effect known

Additional toxicological information: When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12. Ecological information*

Information about elimination (persistence and degradability): -

Other information: The product is not biodegradable.

Behaviour in environmental systems: none

Mobility and bioaccumulation potential: Floats on water.

There is no bioaccumulation.

General notes: The product is not toxic, small particles can have physical effects on water and soil organisms.

13. Disposal considerations

Product: Check for possible recycling. Must be dumped or incinerated in accordance with local regulations.

Contaminated packaging: Contaminated packs should be emptied as far as possible, they can then be passed on for recycling after being thoroughly cleaned.

The UK Environmental Protection (Duty of Care) Regulations (EP) and amendments should be noted (UK).

14. Transport information

Transport/Additional information: According to national and international guidelines, which regulate the road-, rail-, air-

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and seatransport,this product is classified as not dangerous.

15. Regulatory information

Designation according to EC guidelines: not classified

National regulations Classification according to VbF: void

16. Other information

* indicates an amendment from the previous version.

The information supplied has been based upon the current level of information available, for the purpose of specifying the requirements regarding environment, health and safety in conjunction with the product. They are not to be interpreted as a warranty for specific product characteristics. LUCOBIT takes no responsibility for inappropriate use, processing and handling by purchasers and users of the product.