

# Safety Data Sheet

## Lucofin®1492M HG



Printing date 17.05.2023

Version 04

Revision: 17.05.2023

### Section 1: Identification - Product and Supplier

#### 1.1 Product identifier:

**Lucofin®1492M HG**

#### 1.2 Relevant identified use of the chemical and restrictions on use:

Identified uses: Use in construction applications, plastics

#### 1.3 Details of the supplier of the safety data sheet:

LUCOBIT AG

Brühler Str. 60 • Basell Polyolefine GmbH • B100 • D-50389 Wesseling,

Tel.: +49 (0) 22 36/3 78 59 -52 / 60

#### 1.4 Emergency information:

Basell Fire Brigade Wesseling

Tel.: +49 (0) 22 36/72-25 55

### Section 2: Hazards identification

#### 2.1 Classification according to Regulation (EC) No 1272/2008 [CLP]:

This product is classified as hazardous in accordance with Regulation (EC) No. 1272/2008 and its amendments.

 Skin Sens. 1A – H317

Functionalizing monomer is chemically bound to the polymeric substrate.

Free monomer content >0.001% e <0.1%.

Adverse physicochemical, human health and environmental effects:

No other hazards

#### 2.2 GHS labelling



#### WARNING

Hazard statements:

H317 May cause an allergic skin reaction.

Precautionary statements:

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

Contains maleic anhydride

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

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### 2.3 Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

Danger of explosion in case of development of air-powder mixtures.

## Section 3: Composition / information on ingredients

### 3.1 Substances

Name des Inhaltsstoffes	Identifikatoren	%	Einstufung
Polymeric blend-graft-maleic anhydride (trade secret)		≥ 98,9%	The product is classified as not hazardous, according to Reg. 1272/2008/EC (CLP).
Other additives		< 1%	The product is classified as not hazardous, according to Reg. 1272/2008/EC (CLP).
maleic anhydride (free)	Index-Nr.: 607-096-00-9 CAS-Nr.: 108-31-6 EC-Nr.: 203-571-6	< 0,1%	Acute Tox. 4, (Oral) H302 STOT RE 1, H372 Skin Corr./Irrit. 1B, H314 Eye Dam./Irrit. 1, H318 Skin Sens. 1A, H317 Resp. Sens. 1A, H334 Corrosive to the respiratory tract. EUH071

## Section 4: First aid measures

### 4.1 Description of first aid measures

#### After eye contact

Do not use eyewash or ointment of any kind (before obtaining an examination or advice from an eye specialist).

Wash immediately with water for at least 10 minutes.

#### After inhalation

Remove casualty to fresh air and keep warm and at rest. Self-protection of the first aider

Wear personal protective equipment when required (see section 8.2)

#### After skin contact

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap. Remove contaminated clothing immediately and dispose off safely.

#### After swallowing

In case of accidental ingestion rinse the mouth with water.

GET IMMEDIATE MEDICAL ADVICE, showing the emergency card.

### 4.2 Most important symptoms and effects, both acute and delayed

No known significant effects or critical hazards.

### 4.3 Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Special treatment: If molten polymer contacts the skin, cool down the skin rapidly with water or ice. See a physician for removal of any adhering material and for treatment of burned parts.

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### Section 5: Firefighting measures

#### 5.1 Extinguishing media:

##### Suitable Extinguishing media:

Water fog (trained personnel only).  
Carbon dioxide (CO<sub>2</sub>).

##### Unsuitable extinguishing media

None in particular.

#### 5.2 Hazards specific to the substance or mixture

##### Hazards to the substance or mixture

Do not inhale explosion and combustion gases. Burning produces heavy smoke.

#### 5.3 Advice for firefighters

Use suitable breathing apparatus .  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Move undamaged containers from immediate hazard area if it can be done safely.

### Section 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures.

For non-emergency personnel:

Wear personal protection equipment. Remove persons to safety. See protective measures under point 7 and 8.

For emergency responders:

Check the compatibility of protective clothing materials with what is stated in par. 8

#### 6.2 Environmental precautions:

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Retain contaminated washing water and dispose it. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

#### 6.3 Methods and material for containment and cleaning

Wash with plenty of water.

#### 6.4 Reference to other sections

See also section 8 and 13

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### Section 7: Handling and storage

#### 7.1 Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists. Don't use empty container before they have been cleaned. Before making transfer operations, assure that there aren't any incompatible material residuals in the containers. Contaminated clothing should be changed before entering eating areas. Do not eat or drink while working.

See also section 8 for recommended protective equipment.

#### 7.2. Conditions for safe storage under consideration of incompatibilities

Store in a covered warehouse, in a cool, dry and ventilated location. Preserve from heat and direct sunshine.

Avoid the accumulation of electrostatic charges. Danger of explosion in case of development of air-powder mixtures. Store at room temperature away from heat sources. Use only in well ventilated areas. Keep away from strong oxidizing agents. Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

#### 7.3 Specific end use (s)

##### Recommendation:

When opening sealed packages avoid direct breathing of vapors that may be emanating. Vapors may contain concentration of maleic anhydride.

### Section 8: Exposure controls and personal protection

#### 8.1. Control parameters

maleic anhydride - CAS: 108-31-6

ACGIH - TWA(8h): 0.01 mg/m<sup>3</sup> - Notes: (IFV), DSEN, RSEN, A4 - Resp sens

##### DNEL Exposure Limit Values

N.A.

##### PNEC Exposure Limit Values

N.A.

#### 8.2 Exposure controls

##### Eye protection:

Use close fitting safety goggles, don't use eye lens. Handling and processing may release vapors and/or fumes which cause eyes irritation.

##### Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton. Handling and processing may release vapors and/or fumes which cause skin irritation.

##### Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber. Handling and processing may release vapors and/or fumes which cause skin irritation.

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### Respiratory protection:

Wear suitable respiratory protection equipment, combination filtering device (DIN EN 141). Filter: A-P2. Handling and processing may release vapors and/or fumes which cause respiratory tract irritation.

### Thermal Hazards:

None

### Environmental exposure controls:

None

### Appropriate engineering controls:

None

## Section 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Physical state:** solid  
**Colour:** colorless to slightly yellowish  
**Odour:** acid

Parameter	value
pH Value	Not available
Melting point/Freezing point	Not available
Initial boiling point and boiling range	Not available
Decomposition temperature (°C)	Not available
Flash point	Not available
Evaporation rate	Not available
Ignition temperature in °C	Not available
Upper/lower flammability or explosion limits	Not available
Steam pressure	Not available
Steam density	Not available
Density	Not available
Bulk density	Not available
Water solubility (g/L)	soluble
Partition coefficient n-octanol / water	Not available
Viscosity, dynamic	Not available
Viscosity, kinematic	Not available

### 9.2 Other information

No further information

## Section 10: Stability and reactivity

### 10.1 Reactivity

Stable under normal conditions.

### 10.2 Chemical stability

Stable under normal conditions.

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### 10.3. Possibility of hazardous reactions

No information available

### 10.4. Conditions to avoid

Stable under normal conditions.

### 10.5 Incompatible materials

None in particular

### 10.6 Hazardous decomposition products

None

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

Toxicological information of the product:

N.A.

Toxicological information of the main substances found in the product:

maleic anhydride

b) skin corrosion/irritation

## Section 12: Ecological information

### 12.1 Toxicity

Adopt sound working practices, so that the product is not released into the environment.

maleic anhydride

a) Aquatic acute toxicity:

Species: Fish = 115 mg/l - Duration h: 48 - Notes: DIN 38412, Part 15

Endpoint: EC50 - Species: Daphnia = 88 mg/l - Duration h: 24 - Notes: DIN 38412, part 11

Endpoint: EC50 - Species: Algae = 29 mg/l - Duration h: 72 - Notes: Umweltbundesamt

### 12.2 Persistence and degradability

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Biodegradability: Not readily biodegradable. - Test: N.A. - Duration: N.A. - %: N.A. - Notes: N.A.

maleic anhydride

Biodegradability: Readily biodegradable - Test: OECD301B - Duration: 28gg - %: 93.2 -

Notes: >90%

### 12.3 Bioaccumulation potential

N.A.

### 12.4 Mobility in soil

N.A.

### 12.5 Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

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### Section 13: Disposal considerations

#### 13.1 Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

### 14: Transport information

ADR – Road traffic	No dangerous good in the meaning of transport regulations
RID – Rail traffic	No dangerous good in the meaning of transport regulations
ADN – Inland navigatiion	No dangerous good in the meaning of transport regulations
IMO/IMDG – Ship traffic	No dangerous good in the meaning of transport regulations
ICAO/IATA – Air traffic	No dangerous good in the meaning of transport regulations

#### Special precautions for the user

Transportation on factory premises: transport only in closed containers that are vertical and secure. Persons transporting the product must be proven to be correct in case of accident, leakage or spillage

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

### Section 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/ legislation specific for the substance or mixture EU regulations

Regulation (EU) 2020/878  
Dir. 98/24/EC (Risks related to chemical agents at work)  
Dir. 2000/39/EC (Occupational exposure limit values)  
Regulation (EC) n. 1907/2006 (REACH)  
Regulation (EC) n. 1272/2008 (CLP)  
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013  
Regulation (EU) 2015/830  
Regulation (EU) n. 286/2011 (ATP 2 CLP)  
Regulation (EU) n. 618/2012 (ATP 3 CLP)  
Regulation (EU) n. 487/2013 (ATP 4 CLP)  
Regulation (EU) n. 944/2013 (ATP 5 CLP)  
Regulation (EU) n. 605/2014 (ATP 6 CLP)  
Regulation (EU) n. 2015/1221 (ATP 7 CLP)  
Regulation (EU) n. 2016/918 (ATP 8 CLP)  
Regulation (EU) n. 2016/1179 (ATP 9 CLP)  
Regulation (EU) n. 2017/776 (ATP 10 CLP)  
Regulation (EU) n. 2018/669 (ATP 11 CLP)  
Regulation (EU) n. 2018/1480 (ATP 13 CLP)  
Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:  
Restrictions related to the product:  
No restriction.  
Restrictions related to the substances contained:  
No restriction.  
Where applicable, refer to the following regulatory provisions :  
Directive 2012/18/EU (Seveso III)  
Regulation (EC) nr 648/2004 (detergents).  
Dir. 2004/42/EC (VOC directive)  
Provisions related to directive EU 2012/18 (Seveso III):  
Product belongs to category: NA.

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### 15.2 Chemical safety assessment

No chemical safety assessment has been carried out for this mixture.

## Section 16: Other information

### Abbreviations and acronyms

ADR:	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road )
ATE	estimated acute toxicity
CAS:	Chemical Abstracts Service
CLP	Regulation on Classification, Labeling Packaging [Regulation (EC) No. 1272/2008]
DNEL	Derived non-effect limit
DMEL	Derived minimum effect threshold
EINECS:	European Inventory of Existing Commercial Chemical Substances
ELINCS:	European List of Notified Chemical Substances
EUH phrase	CLP-specific hazard statement
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals
IMDG:	International Maritime Code for Dangerous Goods
IATA:	International Air Transport Association
LC50:	Lethal concentration, 50%
LD50:	Lethal dose, 50%
PBT	Persist, bioaccumular
PNEC	Abgeschätzte Nicht-Effekt-Konzentration
RRN	REACH Registriernummer
vPvB	Sehr persistent und sehr bioakkumulierbar

### Relevant H and EUH statements (number and full text)

H302 Harmful if swallowed.  
H372 Causes damage to organs (Respiratory system) through prolonged or repeated exposure if inhaled.  
H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H317 May cause an allergic skin reaction.  
EUH071 Corrosive to the respiratory tract.

### Further information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.