

Safety data sheet

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BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from time to time.

Date / Revised: 29.03.2024

Version: 7.2

Date / Previous version: 01.02.2024

Previous version: 7.1

Product: **948-36 5KG Hardener Paste. red**

(ID no. 50492038/SDS_GEN_GB/EN)

Date of print 30.03.2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

948-36 5KG Hardener Paste. red

UFI: EXUP-GAEU-R002-Y6FX

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Putty

1.3. Details of the supplier of the safety data sheet

Company:

BASF Coatings GmbH
Postfach 6123
48136 Muenster
Deutschland

Contact address:

BASF plc
4th and 5th Floors, 2 Stockport Exchange
Railway Road, Stockport, SK1 3GG
UNITED KINGDOM

Telephone: +44 161 475 3000

E-mail address: product-safety-uk-and-ireland@basf.com

1.4. Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

For the classification of the mixture the following methods have been applied: extrapolation on the concentration levels of the hazardous substances, on basis of test results and after evaluation of experts. The methodologies used are mentioned at the respective test results.

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According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

| | |
|--------------------|---|
| Eye Dam./Irrit. 2 | H319 Causes serious eye irritation. |
| Skin Sens. 1 | H317 May cause an allergic skin reaction. |
| STOT RE 2 | H373 May cause damage to organs through prolonged or repeated exposure. |
| Aquatic Acute 1 | H400 Very toxic to aquatic life. |
| Org. Perox. Type E | H242 Heating may cause a fire. |
| Aquatic Chronic 1 | H410 Very toxic to aquatic life with long lasting effects. |

For the classifications not written out in full in this section the full text can be found in section 16.

2.2. Label elements

According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

Pictogram:



Signal Word:
Warning

Hazard Statement:

| | |
|------|--|
| H242 | Heating may cause a fire. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H410 | Very toxic to aquatic life with long lasting effects. |

Precautionary Statements (Prevention):

| | |
|------|--|
| P280 | Wear protective gloves, protective clothing and eye protection or face protection. |
| P273 | Avoid release to the environment. |
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |

Precautionary Statements (Response):

| | |
|--------------------|--|
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
|--------------------|--|

Precautionary Statements (Storage):

| | |
|------|-----------------------------------|
| P403 | Store in a well-ventilated place. |
|------|-----------------------------------|

Precautionary Statements (Disposal):

| | |
|------|---|
| P501 | Dispose of contents and container to hazardous or special waste collection point. |
|------|---|

Hazard determining component(s) for labelling: Benzoyl peroxide, maleic acid dibutyl ester

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2.3. Other hazards

According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

SECTION 3: Composition/Information on Ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Chemical nature

organic peroxide, fillers, cellulose ester, polyether, Water

Hazardous ingredients (GHS)

Benzoyl peroxide

Content (W/W): $\geq 30\%$ - $< 50\%$
 CAS Number: 94-36-0
 EC-Number: 202-327-6
 REACH registration number: 01-2119511472-50

Org. Perox. B
 Skin Sens. 1
 Aquatic Acute 1
 Aquatic Chronic 1
 Eye Dam./Irrit. 2
 M-factor acute: 10
 M-factor chronic: 10
 H319, H317, H410, H241

Differing classification according to current knowledge and the criteria given in Annex I of Regulation (EC) No. 1272/2008

Org. Perox. B
 Eye Dam./Irrit. 2
 Skin Sens. 1A
 Aquatic Acute 1
 Aquatic Chronic 1

maleic acid dibutyl ester

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| | |
|---------------------------------------|--------------|
| Content (W/W): $\geq 20\%$ - $< 25\%$ | Skin Sens. 1 |
| CAS Number: 105-76-0 | STOT RE 2 |
| EC-Number: 203-328-4 | H317, H373 |

Magnesium carbonate

| |
|-------------------------------------|
| Content (W/W): $\geq 1\%$ - $< 2\%$ |
| CAS Number: 546-93-0 |
| EC-Number: 208-915-9 |

Substance with EU occupational exposure limit

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

SECTION 4: First-Aid Measures

4.1. Description of first aid measures

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Remove affected person from danger area. Immediately remove contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

If inhaled:

Remove the affected individual into fresh air and keep the person calm. If symptoms persist, seek medical advice. If breathing is irregular or stopped, administer artificial respiration.

On skin contact:

Flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing immediately and clean before re-use or dispose it if necessary. Immediate medical attention required.

On contact with eyes:

Remove contact lenses, if present. Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist. Immediate medical attention required.

On ingestion:

Summon medical aid without delay. Do not induce vomiting due to aspiration hazard. Rinse mouth immediately with water. Keep at rest.

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

Symptoms: Eye irritation, allergic symptoms, Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

Hazards: Dusts may cause mechanical irritation to eyes.

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

Antidote: No known specific antidote.

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SECTION 5: Fire-Fighting Measures

5.1. Extinguishing media

Suitable extinguishing media:

carbon dioxide, alcohol-resistant foam, dry powder, water spray

Unsuitable extinguishing media for safety reasons:

water jet

5.2. Special hazards arising from the substance or mixture

Advice: Has a fire-promoting effect due to release of oxygen.

5.3. Advice for fire-fighters

Special protective equipment:

Appropriate breathing apparatus may be required.

Further information:

Cool closed containers in the vicinity of the source of fire. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. Product itself is non-combustible; fire extinguishing method of surrounding areas must be considered. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Do not inhale dusts. For non-emergency personnel: Use personal protective clothing. Ensure adequate ventilation. Keep away from sources of ignition. For emergency responders: Advice on product handling can be found in sections 7 and 8 of this safety data sheet. Information regarding personal protective measures, see section 8.

6.2. Environmental precautions

Do not allow to enter drains or waterways. If the product enters drains or sewers, the local water company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the Environment Agency. Do not discharge into the subsoil/soil.

6.3. Methods and material for containment and cleaning up

Avoid dust formation. Contain and collect mechanically and dispose of in accordance with local regulations. Ensure adequate ventilation.

6.4. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

SECTION 7: Handling and Storage

7.1. Precautions for safe handling

Avoid dust formation. Protect against moisture. Provide good ventilation of working area (local exhaust ventilation if necessary). Do not return residues to the storage containers. Smoking, eating

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and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws. Product may charge electrostatically. It is recommended that operators should wear antistatic clothing and footwear. Isolate from sources of heat, sparks and open flame. Ensure sufficient earthing when re-filling. When emptying big bags, connect the earthing wire supplied and prevent emptying at a rate of more than 2 kg/s. The workplace should be equipped with an emergency shower and eye-rinsing facility. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:

Avoid dust formation. Avoid all sources of ignition: heat, sparks, open flame. The relevant fire protection measures should be noted.

7.2. Conditions for safe storage, including any incompatibilities

Segregate from oxidants. Segregate from organic substances. Keep away from reducing agents (e.g. amines), acids, alkalis, heavy metal compounds (e.g. accelerators, driers, metal soaps). Segregate from combustible materials.

Suitable materials for containers: Polypropylene (PP), Low density polyethylene (LDPE), High density polyethylene (HDPE), Polyethylenetherephthalate (PET)

Further information on storage conditions: Keep container dry. Keep away from heat. Keep in a cool, well-ventilated place. Protect against moisture. Avoid direct sunlight. Close containers carefully once opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel. The product may have contact with suitable materials only, e.g. unpigmented polyethylene or steel to material code St 4571. Always keep in containers of same material as the original one. Observe label precautions.

Storage stability:

Storage temperature: 5.00 - 25.00 °C

7.3. Specific end use(s)

Please refer to the technical leaflet for further information.

SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

Components with occupational exposure limits

546-93-0: Magnesium carbonate

TWA value 10 mg/m³ (WEL/EH 40 (UK)), Inhalable dust

TWA value 4 mg/m³ (WEL/EH 40 (UK)), Respirable dust

94-36-0: Benzoyl peroxide

TWA value 5 mg/m³ (WEL/EH 40 (UK))

Biological limit values (BLV)

No data available.

Components with PNEC

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94-36-0: Benzoyl peroxide

oral (secondary poisoning): 6.67 mg/kg

intermittent release: 0.602 µg/l

soil: 0.0758 mg/kg

freshwater: 0.602 µg/l

sediment (freshwater): 0.338 mg/kg

STP: 0.35 mg/l

marine water: 0.0602 µg/l

water: 0.0338 mg/kg

Components with DNEL

94-36-0: Benzoyl peroxide

worker: Long-term exposure- systemic effects, by inhalation: 11.75 mg/m³

Repeated dose toxicity

consumer: Long-term exposure- systemic effects, dermal: 3.3 mg/kg

Repeated dose toxicity

consumer: Long-term exposure- systemic effects, oral: 1.65 mg/kg

Repeated dose toxicity

consumer: Long-term exposure- systemic effects, by inhalation: 2.9 mg/m³

Repeated dose toxicity

worker: Long-term exposure- systemic effects, dermal: 6.6 mg/kg

Repeated dose toxicity

8.2. Exposure controls

Appropriate engineering controls

Ensure adequate ventilation. This can be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations at the workplace below the occupational exposure limits, appropriate certified respirators must be worn.

Personal protective equipment

Respiratory protection:

Suitable respiratory protection: e.g. P2 class filtering respirator

Hand protection:

Further information on penetration time is available from the manufacturer of the glove.

Data are based on information from the glove manufacturer, the raw material manufacturer or according to specifics of the product components.

The protection glove should be tested for its specific suitability (e.g. mechanical strength, product compatibility, anti-static properties).

Follow manufacturer's advice on use, storage, maintenance and replacement of gloves.

The gloves should be replaced immediately in case of damage or signs of wear. It is recommended to use preventative skin protection (skin cream).

Wear protective gloves. Any chemical protection glove certified according to EN ISO 374-1 is suitable: e.g.

butyl rubber gloves - material thickness: 0.5 mm

Eye protection:

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Required when there is a risk of eye contact.

Body protection:
chemical-resistant disposable coveralls

General safety and hygiene measures

Eye wash fountains and safety showers must be easily accessible. Avoid inhalation of dusts. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Remove contaminated clothing immediately and dispose of safely. Hands and/or face should be washed before breaks and at the end of the shift. Keep separated from food stuffs and feed stocks.

Environmental exposure controls

For information regarding environmental exposure controls, see Section 6.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

| | |
|---|--|
| Form: | paste-like |
| Colour: | red |
| Odour: | pungent |
| pH value: | substance/mixture is non-soluble (in water) |
| Melting point: | not determined |
| onset of boiling: | Study technically not feasible. |
| Flash point: | not applicable, the product is a solid |
| Flammability: | not flammable |
| Lower explosion limit: | not applicable |
| Ignition temperature: | not applicable, the product is a solid |
| Vapour pressure: | (20 °C) The product is a non-volatile solid. |
| | (50 °C) not determined |
| Density: | 1.001 g/cm ³ (20 °C) |
| Relative vapour density (air): | The product is a non-volatile solid. |
| Partitioning coefficient n-octanol/water (log Kow): | not applicable for mixtures |
| Thermal decomposition: | The product is capable of self-sustaining progressive thermal decomposition. |

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Viscosity, dynamic: No applicable information available.

Viscosity, kinematic: (23 °C)
not applicable, the product is a solid

(40 °C)
not applicable, the product is a solid

Explosion hazard: not explosive

Fire promoting properties: not fire-propagating

9.2. Other information

Burning rate: The material doesn't meet the criteria (UN Test N.1 (ready specified in paragraph 33.2.4.4 of UN manual of tests and criteria. combustible solids))

Self heating ability: It is not a material capable of spontaneous heating

SADT: 50 °C

Miscibility with water: immiscible

Flow time: not applicable, the product is a solid

SECTION 10: Stability and Reactivity

10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

10.2. Chemical stability

The product is stable if stored and handled as prescribed/indicated.

10.3. Possibility of hazardous reactions

Dust can form an explosive mixture with air.

10.4. Conditions to avoid

Avoid dust formation. Avoid heat. Avoid direct sunlight. Avoid humidity. Avoid impact, friction and electrostatic loading.

10.5. Incompatible materials

Substances to avoid:

flammable, oxidizable substances, organic substances, Reducing agents, heavy metal compounds, acids, alkalis, contamination., oxidizing agents

10.6. Hazardous decomposition products

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When exposed to high temperatures hazardous decomposition products such as carbon monoxide, carbon dioxide, smoke, oxides of nitrogen may be produced. Flammable vapours., No hazardous decomposition products if stored and handled as prescribed/indicated.

SECTION 11: Toxicological Information

11.1. Information on toxicological effects

Acute toxicity

Assessment of acute toxicity:

The mixture has been assessed following regulation (EC) No 1272/2008. See sections 2 and 3 for details.

Based on available data, the classification criteria are not met.

Irritation

Assessment of irritating effects:

Not irritating to the skin. Eye contact causes irritation.

Respiratory/Skin sensitization

Assessment of sensitization:

Sensitization after skin contact possible.

Germ cell mutagenicity

Assessment of mutagenicity:

Based on available data, the classification criteria are not met.

Carcinogenicity

Assessment of carcinogenicity:

Based on available data, the classification criteria are not met.

Reproductive toxicity

Assessment of reproduction toxicity:

Based on available data, the classification criteria are not met.

Developmental toxicity

Assessment of teratogenicity:

Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure)

Assessment of STOT single:

Based on available data, the classification criteria are not met.

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Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:
Repeated exposure may affect certain organs.

Aspiration hazard

No aspiration hazard expected.

SECTION 12: Ecological Information

12.1. Toxicity

Assessment of aquatic toxicity:
There are no test results available for this product. Do not allow to enter drains or waterways. The mixture has been assessed following regulation (EC) No 1272/2008 and is classified for ecotoxicological properties accordingly. See sections 2 and 3 for details.

Information on: Benzoyl peroxide

Toxicity to fish:

LC50 0.060 mg/l, Oncorhynchus mykiss

Information on: Benzoyl peroxide

Aquatic invertebrates:

EC50 0.110 mg/l, Daphnia magna

Information on: Benzoyl peroxide

Aquatic plants:

EC50 0.071 mg/l, Desmodemus subspicatus

12.2. Persistence and degradability

Assessment biodegradation and elimination (H₂O):
Biological degradability of hazardous substances mentioned in section 3:

Information on: Benzoyl peroxide

Elimination information:

71 % BOD of the ThOD (28 d) (OECD 301D; 92/69/EWG, C.4-E) (aerobic, activated sludge, domestic, non-adapted)

12.3. Bioaccumulative potential

Bioaccumulation potential:

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No data available.

12.4. Mobility in soil

Assessment transport between environmental compartments:

Adsorption in soil: No data available.

12.5. Results of PBT and vPvB assessment

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

12.6. Other adverse effects

The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Do not discharge into drains/surface waters/groundwater.

Observe national and local legal requirements.

Dispose of the substance/product as special waste in accordance with Directive 2008/98/EC.

Waste key:

08 01 12 waste paint and varnish other than those mentioned in 08 01 11

Contaminated packaging:

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

Containers which are not properly emptied must be disposed pursuant to Directive 2008/98/EC

SECTION 14: Transport Information

Land transport

ADR

UN number or ID number: UN3108

UN proper shipping name: ORGANIC PEROXIDE TYPE E, SOLID (contains DIBENZOYLPEROXIDE)

Transport hazard class(es): 5.2, EHSM

Packing group: Not applicable

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Environmental hazards: yes
 Special precautions for user: Tunnel code: D
 Protect from heat

RID

UN number or ID number: UN3108
 UN proper shipping name: ORGANIC PEROXIDE TYPE E, SOLID (contains DIBENZOYLPEROXIDE)
 Transport hazard class(es): 5.2, EHSM
 Packing group: Not applicable
 Environmental hazards: yes
 Special precautions for user: Protect from heat

Inland waterway transport

ADN

UN number or ID number: UN3108
 UN proper shipping name: ORGANIC PEROXIDE TYPE E, SOLID (contains DIBENZOYLPEROXIDE)
 Transport hazard class(es): 5.2, EHSM
 Packing group: Not applicable
 Environmental hazards: yes
 Special precautions for user: Protect from heat

Transport in inland waterway vessel

Not evaluated

Sea transport

IMDG

UN number or ID number: UN 3108
 UN proper shipping name: ORGANIC PEROXIDE TYPE E, SOLID (contains DIBENZOYLPEROXIDE)
 Transport hazard class(es): 5.2, EHSM
 Packing group: Not applicable
 Environmental hazards: yes
 Marine pollutant: YES
 Special precautions for user: Protect from heat

Air transport

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IATA/ICAO

UN number or ID number: UN 3108

UN proper shipping name: ORGANIC PEROXIDE TYPE E, SOLID (contains DIBENZOYLPEROXIDE)

Transport hazard class(es): 5.2

Packing group: Not applicable

Environmental hazards: No Mark as dangerous for the environment is needed

Special precautions for user: Protect from heat

14.1. UN number or ID number

See corresponding entries for "UN number or ID number" for the respective regulations in the tables above.

14.2. UN proper shipping name

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

14.3. Transport hazard class(es)

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

14.4. Packing group

See corresponding entries for "Packing group" for the respective regulations in the tables above.

14.5. Environmental hazards

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

14.6. Special precautions for user

See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

14.7. Maritime transport in bulk according to IMO instruments

Maritime transport in bulk is not intended.

SECTION 15: Regulatory Information

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

Directive 2012/18/EU - Control of Major Accident Hazards involving dangerous substances (EU):
Listed in above regulation: Self-reactive substances and mixtures, Type C, D, E or F or organic peroxides, Type C, D, E, or F

Details relating to the VOC Directive 2004/42/EC:

Subcategory as indicated in Annex IIB:

dropped

Limit value for maximum VOC content as specified in Annex IIB:

dropped

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If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

15.2. Chemical Safety Assessment

Assessment of safe use has been performed for the mixture and the result is documented in section 7 and 8 of the SDS

SECTION 16: Other Information

For multi-pack systems observe material safety data sheets of all components. Restricted to professional users.

Full text of the classifications, including the hazard classes and the hazard statements, if mentioned in section 2 or 3:

| | |
|-----------------|--|
| Eye Dam./Irrit. | Serious eye damage/eye irritation |
| Skin Sens. | Skin sensitization |
| STOT RE | Specific target organ toxicity — repeated exposure |
| Aquatic Acute | Hazardous to the aquatic environment - acute |
| Org. Perox. | Organic Peroxides |
| Aquatic Chronic | Hazardous to the aquatic environment - chronic |
| H242 | Heating may cause a fire. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H241 | Heating may cause a fire or explosion. |

Abbreviations

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road.
 ADN = The European Agreement concerning the International Carriage of Dangerous Goods by Inland waterways. ATE = Acute Toxicity Estimates. CAO = Cargo Aircraft Only. CAS = Chemical Abstract Service. CLP = Classification, Labelling and Packaging of substances and mixtures. DIN = German national organization for standardization. DNEL = Derived No Effect Level. EC50 = Effective concentration median for 50% of the population. EC = European Community. EN = European Standards. IARC = International Agency for Research on Cancer. IATA = International Air Transport Association. IBC-Code = Intermediate Bulk Container code. IMDG = International Maritime Dangerous Goods Code. ISO = International Organization for Standardization. STEL = Short-Term Exposure Limit. LC50 = Lethal concentration median for 50% of the population. LD50 = Lethal dose median for 50% of the population. TLV = Threshold Limit Value. MARPOL = The International Convention for the Prevention of Pollution from Ships. NEN = Dutch Norm. NOEC = No Observed Effect Concentration. OEL = Occupational Exposure Limit. OECD = Organization for Economic Cooperation and Development. PBT = Persistent, Bioaccumulative and Toxic. PNEC = Predicted No Effect Level. PPM = Parts per million. RID = The European Agreement concerning the International Carriage of Dangerous Goods by Rail. TWA = Time Weight Average. UN-number = UN number at transport. vPvB = very Persistent and very Bioaccumulative.

BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from time to time.

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Vertical lines in the left hand margin indicate an amendment from the previous version.