

Safety data sheet

Page: 1/20

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

time to time.

Date / Revised: 12.06.2024 Version: 13.1
Date / Previous version: 03.06.2024 Previous version: 13.0

Product: **P-H-440 0,5L**

(ID no. 50680080/SDS_GEN_GB/EN)

Date of print 13.06.2024

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

1.1. Product identifier

P-H-440 0,5L

UFI: NHGX-NF4S-700C-UJVA

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

Relevant identified uses: hardener

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.

time to time.

Date / Revised: 12.06.2024 Version: 13.1
Date / Previous version: 03.06.2024 Previous version: 13.0

Product: **P-H-440 0,5L**

(ID no. 50680080/SDS_GEN_GB/EN)

Date of print 13.06.2024

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

Acute Tox. 4 (Inhalation - H332 Harmful if inhaled.

vapour)

Eye Dam./Irrit. 2 H319 Causes serious eye irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.
STOT SE 3 H335 May cause respiratory irritation.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated

exposure.

Flam. Liq. 3 H226 Flammable liquid and vapour. STOT SE 3 H336 May cause drowsiness or dizziness.

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:

H226 Flammable liquid and vapour.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements (Prevention):

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves, protective clothing and eye protection or face

protection.

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.

P312 Call a POISON CENTER or physician if you feel unwell.

Precautionary Statements (Storage):

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

Precautionary Statements (Disposal):

time to time.

Date / Revised: 12.06.2024 Version: 13.1

Date / Previous version: 03.06.2024 Previous version: 13.0

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Date of print 13.06.2024

P501 Dispose of contents and container to hazardous or special waste

collection point.

Labeling of special preparations (GHS):

EUH204: Contains isocyanates. May produce an allergic reaction.

Hazard determining component(s) for labelling: benzoic acid, heptan-2-one, 2-butoxyethyl acetate, HDI-Oligomer(Trimer)

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

polyisocyanate, organic solvent

Hazardous ingredients (GHS)

HDI-Oligomer(Trimer)

Content (W/W): >= 50 % - < 75 %CAS Number: 28182-81-2 REACH registration number: 01-

2119485796-17

Acute Tox. 4 (Inhalation - dust) Acute Tox. 4 (Inhalation - vapour)

Skin Sens. 1

STOT SE 3 (irr. to respiratory syst.)

H332, H317, H335

EUH204

time to time.

Date / Revised: 12.06.2024 Version: 13.1
Date / Previous version: 03.06.2024 Previous version: 13.0

Product: **P-H-440 0,5L**

(ID no. 50680080/SDS_GEN_GB/EN)

Date of print 13.06.2024

Content (W/W): >= 12.5 % - < 15 Flam. Liq. 3

% Acute Tox. 4 (Inhalation - vapour)

CAS Number: 110-43-0 Acute Tox. 4 (oral)

EC-Number: 203-767-1 STOT SE 3 (drowsiness and dizziness)

REACH registration number: 01- H226, H336, H302 + H332

2119902391-49

INDEX-Number: 606-024-00-3

2-butoxyethyl acetate

Content (W/W): >= 10 % - < 12.5 Acute Tox. 4 (Inhalation - vapour)

H302 + H312 + H332

% Acute Tox. 4 (oral) CAS Number: 112-07-2 Acute Tox. 4 (dermal)

REACH registration number: 01-

2119475112-47

INDEX-Number: 607-038-00-2

EC-Number: 203-933-3

2-methoxy-1-methylethyl acetate

Content (W/W): >= 5 % - < 7 % Flam. Liq. 3

CAS Number: 108-65-6 STOT SE 3 (drowsiness and dizziness)

EC-Number: 203-603-9 H226, H336

REACH registration number: 01-

2119475791-29

INDEX-Number: 607-195-00-7

benzoic acid

Content (W/W): >= 1 % - < 2 % Skin Corr./Irrit. 2 CAS Number: 65-85-0 Eye Dam./Irrit. 1

EC-Number: 200-618-2 STOT RE (Lung) 1 (by inhalation)

REACH registration number: 01- H318, H315, H372

2119455536-33

INDEX-Number: 607-705-00-8

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:

time to time.

Date / Revised: 12.06.2024 Version: 13.1

Date / Previous version: 03.06.2024 Previous version: 13.0

Product: **P-H-440 0,5L**

(ID no. 50680080/SDS_GEN_GB/EN)

Date of print 13.06.2024

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, dazed state, irritation of respiratory tract, dizziness, 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.

4.3. Indication of any immediate medical attention and special treatment needed Antidote: No known specific antidote.

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

Endangering substances: nitrogen oxides

Advice: Fire will produce dense black smoke. Inhalation of dangerous decomposition products may cause serious damage to health.

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. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.

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Date / Previous version: 03.06.2024 Previous version: 13.0

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Date of print 13.06.2024

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid breathing vapours. 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

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth. Place in a suitable container. The contaminated area should be cleaned up immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): ethanol or isopropyl alcohol (50 parts); water (45 parts); concentrated ammonia solution (5 parts). A non-flammable alternative is: sodium carbonate (5 parts); water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in non-sealed container. Once this stage is reached, close container and dispose according to the waste regulations (see section 13). 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

Provide good ventilation of working area (local exhaust ventilation if necessary). Do not return residues to the storage containers. Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws. When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits. Care should be taken when reopening partly used containers (pressurization!). Avoid inhalation of vapour and spray mist. 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 all sources of ignition: heat, sparks, open flame. Product may charge electrostatically: always use earthing leads when transferring from one container to another and earth containers. It is recommended that operators should wear antistatic clothing and footwear. Solvent vapours are heavier than air and spread along floors. Vapour forms explosive mixtures with air. The relevant fire protection measures should be noted. Use explosion-proof equipment.

7.2. Conditions for safe storage, including any incompatibilities

time to time.

Date / Revised: 12.06.2024 Version: 13.1

Date / Previous version: 03.06.2024 Previous version: 13.0

Product: **P-H-440 0,5L**

(ID no. 50680080/SDS_GEN_GB/EN)

Date of print 13.06.2024

Keep away from strongly acid and stongly alkaline materials, from oxidizing agents, amines, alcohols and water.

Suitable materials for containers: Stove-lacquer RDL 50, Stove-lacquer R 78433, Stove-lacquer 79/14/3 (Müller/CH), Stove-lacquer EHD0022, Stove-lacquer KNS L-5X, Stove-lacquer Valspar HXR008F red, Stove-lacquer Vitalure 745, Stove-lacquer NOVOCAN S-G 500, Stove-lacquer C222A/C221A, Stainless steel 1.4301 (V2), Carbon steel (Iron), tinned carbon steel (Tinplate) Further information on storage conditions: Keep away from heat. Keep in a cool, well-ventilated place. 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. Precautions should be taken to minimise exposure to atmospheric humidity or water: carbon dioxide will be formed which in closed containers can result pressurisation. Always keep in containers of same material as the original one. Observe label precautions. Store protected against freezing.

Storage stability:

Storage temperature: 5.00 - 35.00 °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

108-65-6: 2-methoxy-1-methylethyl acetate

TWA value 274 mg/m3; 50 ppm (WEL/EH 40 (UK))

Skin Designation (WEL/EH 40 (UK))

The substance can be absorbed through the skin. STEL value 550 mg/m3; 100 ppm (OEL (EU))

indicative

Skin Designation (OEL (EU))

The substance can be absorbed through the skin.

TWA value 275 mg/m3; 50 ppm (OEL (EU))

indicative

STEL value 548 mg/m3; 100 ppm (WEL/EH 40 (UK))

Ceiling limit value/factor: 15 min

STEL value 548 mg/m3; 100 ppm (WEL/EH 40 (UK))

Ceiling limit value/factor: 15 min

110-43-0: heptan-2-one

Skin Designation (WEL/EH 40 (UK))

The substance can be absorbed through the skin. TWA value 237 mg/m3; 50 ppm (WEL/EH 40 (UK))

TWA value 238 mg/m3; 50 ppm (OEL (EU))

indicative

STEL value 475 mg/m3; 100 ppm (OEL (EU))

indicative

time to time.

Date / Revised: 12.06.2024 Version: 13.1 Previous version: 13.0

Date / Previous version: 03.06.2024

Product: **P-H-440 0,5L**

(ID no. 50680080/SDS_GEN_GB/EN)

Date of print 13.06.2024

Skin Designation (OEL (EU))

The substance can be absorbed through the skin. STEL value 475 mg/m3 : 100 ppm (WEL/EH 40 (UK))

Ceiling limit value/factor: 15 min

112-07-2: 2-butoxyethyl acetate

TWA value 133 mg/m3; 20 ppm (WEL/EH 40 (UK))

Skin Designation (WEL/EH 40 (UK))

The substance can be absorbed through the skin. TWA value 133 mg/m3; 20 ppm (OEL (EU))

indicative

Skin Designation (OEL (EU))

The substance can be absorbed through the skin. STEL value 333 mg/m3; 50 ppm (OEL (EU))

indicative

STEL value 332 mg/m3; 50 ppm (WEL/EH 40 (UK))

Ceiling limit value/factor: 15 min

28182-81-2: HDI-Oligomer(Trimer)

TWA value 0.02 mg/m3 (WEL/EH 40 (UK))

Measured as: NCO

STEL value 0.07 mg/m3 (WEL/EH 40 (UK))

Measured as: NCO

Ceiling limit value/factor: 15 min

STEL value 0.07 mg/m3 (WEL/EH 40 (UK))

Measured as: NCO

Ceiling limit value/factor: 15 min

TWA value 0.02 mg/m3 (WEL/EH 40 (UK))

Measured as: NCO

Biological limit values (BLV)

No data available.

Components with PNEC

65-85-0: benzoic acid

No PNEC value available.

108-65-6: 2-methoxy-1-methylethyl acetate

freshwater: 0.635 mg/l marine water: 0.0635 mg/l intermittent release: 6.35 mg/l sediment (freshwater): 3.29 mg/kg sediment (marine water): 0.329 mg/kg

soil: 0.29 mg/kg STP: 100 mg/l

110-43-0: heptan-2-one

freshwater: 0.0982 mg/l marine water: 0.00982 mg/l intermittent release: 0.982 mg/l

STP: 12.5 mg/l

time to time.

Date / Revised: 12.06.2024 Version: 13.1

Date / Previous version: 03.06.2024 Previous version: 13.0

Product: **P-H-440 0,5L**

(ID no. 50680080/SDS_GEN_GB/EN)

Date of print 13.06.2024

sediment (freshwater): 1.89 mg/kg sediment (marine water): 0.189 mg/kg

soil: 0.321 mg/kg

112-07-2: 2-butoxyethyl acetate

freshwater: 0.304 mg/l marine water: 0.0304 mg/l intermittent release: 0.56 mg/l sediment (freshwater): 2.03 mg/kg sediment (marine water): 0.203 mg/kg

soil: 0.42 mg/kg STP: 90 mg/l

oral (secondary poisoning): 0.06 mg/kg

763-69-9: Ethyl 3-ethoxypropionate

No PNEC value available.

STP: 50 mg/l

freshwater: 0.061 mg/l marine water: 0.006 mg/l

sediment (freshwater): 0.419 mg/kg sediment (marine water): 0.042 mg/kg

soil: 0.048 mg/kg

28182-81-2: HDI-Oligomer(Trimer)

freshwater: 0.127 mg/l marine water: 0.0127 mg/l intermittent release: 1.27 mg/l sediment (freshwater): 266700 mg/kg

marine water: 26670 mg/kg

soil: 53182 mg/kg STP: 38.28 mg/l

Components with DNEL

65-85-0: benzoic acid

worker: Long-term exposure- systemic effects, dermal: 62.5 mg/kg bw/day worker: Long-term exposure- systemic effects, Inhalation: 3 mg/m3

consumer: Long-term exposure- systemic effects, dermal: 31.25 mg/kg bw/day consumer: Long-term exposure- systemic effects, Inhalation: 1.5 mg/m3 consumer: Long-term exposure- systemic effects, oral: 16.6 mg/kg bw/day worker: Long-term exposure - local effects, Inhalation: 0.1 mg/m3

consumer: Long-term exposure - local effects, Inhalation: 0.06 mg/m3

108-65-6: 2-methoxy-1-methylethyl acetate

worker: Long-term exposure- systemic effects, Inhalation: 275 mg/m3 worker: Long-term exposure- systemic effects, dermal: 796 mg/kg consumer: Long-term exposure- systemic effects, oral: 36 mg/kg

consumer: Long-term exposure - systemic and local effects, Inhalation: 33

mg/m3

consumer: Long-term exposure- systemic effects, dermal: 320 mg/kg worker: Short-term exposure - local effects, Inhalation: 550 mg/m3

time to time.

Date / Revised: 12.06.2024 Version: 13.1

Date / Previous version: 03.06.2024 Previous version: 13.0

Product: **P-H-440 0,5L**

(ID no. 50680080/SDS_GEN_GB/EN)

Date of print 13.06.2024

consumer: Short-term exposure - systemic effects, oral: 500 mg/kg

110-43-0: heptan-2-one

worker: Long-term exposure- systemic effects, dermal: 54.27 mg/kg worker: Long-term exposure- systemic effects, Inhalation: 394.25 mg/m3 worker: Short-term exposure - systemic effects, Inhalation: 1516 mg/m3 consumer: Long-term exposure- systemic effects, dermal: 23.32 mg/kg consumer: Long-term exposure- systemic effects, Inhalation: 84.31 mg/m3 consumer: Long-term exposure- systemic effects, oral: 23.32 mg/kg

112-07-2: 2-butoxyethyl acetate

worker: Long-term exposure- systemic effects, dermal: 169 mg/kg worker: Long-term exposure- systemic effects, Inhalation: 133 mg/m3 worker: Short-term exposure - local effects, Inhalation: 333 mg/m3 consumer: Long-term exposure- systemic effects, dermal: 102 mg/kg consumer: Long-term exposure- systemic effects, oral: 8.6 mg/kg consumer: Short-term exposure- systemic effects, oral: 36 mg/kg consumer: Long-term exposure- systemic effects, Inhalation: 80 mg/m3 consumer: Short-term exposure - local effects, Inhalation: 200 mg/m3 worker: Short-term exposure - systemic effects, dermal: 120 mg/kg consumer: Short-term exposure - systemic effects, dermal: 72 mg/kg

763-69-9: Ethyl 3-ethoxypropionate

worker: Long-term exposure- systemic effects, dermal: 102 mg/kg worker: Long-term exposure- systemic effects, Inhalation: 610 mg/m3 worker: Long-term exposure - local effects, dermal: 102 mg/cm2 worker: Long-term exposure - local effects, Inhalation: 610 mg/m3 consumer: Long-term exposure- systemic effects, dermal: 24.2 mg/kg consumer: Long-term exposure- systemic effects, Inhalation: 72.6 mg/m3 consumer: Long-term exposure- systemic effects, oral: 1.2 mg/kg

28182-81-2: HDI-Oligomer(Trimer)

worker: Short-term exposure - local effects, Inhalation: 1 mg/m3 worker: Long-term exposure - local effects, Inhalation: 0.5 mg/m3

8.2. Exposure controls

Appropriate engineering controls

This can be achieved by the use of local exhaust ventilation and good general extraction. Respiratory protective equipment should be worn by spray booth operatives. Ensure adequate ventilation.

Personal protective equipment

Respiratory protection:

Suitable respiratory protection: e.g. full face mask with AB2P3 class combination filter

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.

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Date / Revised: 12.06.2024 Version: 13.1

Date / Previous version: 03.06.2024 Previous version: 13.0

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(ID no. 50680080/SDS_GEN_GB/EN)

Date of print 13.06.2024

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:

Eye protection not required.

Body protection:

chemical-resistant disposable coveralls, Personnel should wear antistatic, flame-retardant clothing made of natural fibres and/or heat-resistant synthetic fibres.

General safety and hygiene measures

Do not breathe vapour/spray. Eye wash fountains and safety showers must be easily accessible. Under cool dry conditions, it is possible for the isocyanate to remain unreacted in the paint film for up to 30 hours after application. 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: liquid
Colour: colourless
Odour: ester-like

pH value:

substance/mixture reacts violently

with water

Melting point:

not determined

onset of boiling: 141 °C (calculated)
Flash point: 23 °C (ISO 3679)

Flammability: Flammable liquid and vapour.

Lower explosion limit: 36 g/m3 lgnition temperature: > 200.00 °C

Vapour pressure: 3.00 hPa (calculated)

(20 °C)

(50 °C)

not determined

time to time.

Date / Revised: 12.06.2024 Version: 13.1

Date / Previous version: 03.06.2024 Previous version: 13.0

Product: **P-H-440 0,5L**

(ID no. 50680080/SDS_GEN_GB/EN)

Date of print 13.06.2024

Density: 1.033 g/cm3

(20 °C)

Relative vapour density (air):

Heavier than air.

Solubility in water: Reacts with water.

Partitioning coefficient n-octanol/water (log Kow):

not applicable for mixtures

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

Viscosity, kinematic: 7.3 mm2/s

(23 °C)

(40 °C)

No data available.

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 combustible solids))

manual of tests and criteria.

Self heating ability: It is not a material capable of

spontaneous heating

Miscibility with water:

immiscible

Flow time: > 30 s (DIN EN ISO 2431; 3 mm)

(23 °C)

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

Vapours may form ignitable mixture with air.

10.4. Conditions to avoid

Avoid direct contact with water. Avoid heat. Avoid direct sunlight. Avoid all sources of ignition: heat, sparks, open flame. Avoid freezing.

10.5. Incompatible materials

Substances to avoid:

Keep away from oxidising agents, strongly alkaline and strongly acidic materials, amines, alcohols and water. Uncontrolled exothermic reactions occur with amines and alcohols. The product reacts

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Date / Revised: 12.06.2024 Version: 13.1

Date / Previous version: 03.06.2024 Previous version: 13.0

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(ID no. 50680080/SDS_GEN_GB/EN)

Date of print 13.06.2024

with water resulting in evolution of carbon dioxide. In closed containers, pressure build up could result in distortion, blowing and in extreme cases bursting of the container.

10.6. Hazardous decomposition products

When exposed to high temperatures hazardous decomposition products such as smoke, carbon monoxide, carbon dioxide, oxides of nitrogen, hydrogen cyanide, monomeric isocyanates may be produced. 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:

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Repeated and prolonged exposure to solvents at levels significantly above OELs may lead to the development of long-lasting central nervous system disorders such as chronic toxic encephalopathy, signs of toxicity include changes in behaviour and memory. Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

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

Of moderate toxicity after short-term inhalation.

Information on: heptan-2-one Experimental/calculated data:

LC50 rat (by inhalation): > 16.7 mg/l 4 h (OECD Guideline 403)

Mortality was observed. The vapour was tested.

Information on: 2-butoxyethyl acetate

Experimental/calculated data:

LC50 rat (by inhalation): > 400 ppm 4 h (OECD Guideline 403)

No mortality was observed. Highest concentration technically achievable. The vapour was tested.

Irritation

Assessment of irritating effects:

Not irritating to the skin. The liquid splashed in the eyes may cause irritation and reversible damage. Eve contact causes irritation.

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Date / Revised: 12.06.2024 Version: 13.1

Date / Previous version: 03.06.2024 Previous version: 13.0

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(ID no. 50680080/SDS_GEN_GB/EN)

Date of print 13.06.2024

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:

Causes temporary irritation of the respiratory tract. Possible narcotic effects (drowsiness or dizziness).

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.

time to time.

Date / Revised: 12.06.2024 Version: 13.1

Date / Previous version: 03.06.2024 Previous version: 13.0

Product: **P-H-440 0,5L**

(ID no. 50680080/SDS_GEN_GB/EN)

Date of print 13.06.2024

Other relevant toxicity information

Based on the properties of the isocyanate components and considering toxicological data on similar product, this product may cause acute irritation and/or sensitization of the respiratory system leading to an asthmatic condition, wheeziness and tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the occupational exposure limit. Repeated inhalation may lead to a permanent respiratory disability.

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 not classified as dangerous for the environment.

12.2. Persistence and degradability

Assessment biodegradation and elimination (H2O): No data available concerning biodegradation and elimination.

12.3. Bioaccumulative potential

Bioaccumulation potential: 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

time to time.

Date / Revised: 12.06.2024 Version: 13.1

Date / Previous version: 03.06.2024 Previous version: 13.0

Product: **P-H-440 0,5L**

(ID no. 50680080/SDS_GEN_GB/EN)

Date of print 13.06.2024

Do not discharge into drains/surface waters/groundwater.

Observe national and local legal requirements.

Dispose of isocyanate waste in dry containers and never mix together with other wastes (reaction, dangerous pressure build up).

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

Waste key:

08 01 11¤ waste paint and varnish containing organic solvents or other hazardous substances

Contaminated packaging:

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

Residues in empty containers should be neutralised with decontaminant (see section 6).

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: UN1263
UN proper shipping name: PAINT
Transport hazard class(es): 3
Packing group: III
Environmental hazards: no

Special precautions for Tunnel code: D/E

user:

RID

UN number or ID number: UN1263
UN proper shipping name: PAINT
Transport hazard class(es): 3
Packing group: III
Environmental hazards: no

Special precautions for None known

user:

Inland waterway transport

ADN

UN number or ID number: UN1263
UN proper shipping name: PAINT
Transport hazard class(es): 3
Packing group: III
Environmental hazards: no

time to time.

Date / Revised: 12.06.2024 Version: 13.1

Date / Previous version: 03.06.2024 Previous version: 13.0

Product: **P-H-440 0,5L**

(ID no. 50680080/SDS_GEN_GB/EN)

Date of print 13.06.2024

Special precautions for

None known

user:

Transport in inland waterway vessel

Not evaluated

Sea transport

IMDG

UN number or ID number: UN 1263
UN proper shipping name: PAINT
Transport hazard class(es): 3
Packing group: III
Environmental hazards: no

Marine pollutant: NO

Special precautions for

user:

Air transport

IATA/ICAO

UN number or ID number: UN 1263 UN proper shipping name: PAINT Transport hazard class(es): 3 Packing group: III

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

Special precautions for None known

user:

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.

time to time.

Date / Revised: 12.06.2024 Version: 13.1

Date / Previous version: 03.06.2024 Previous version: 13.0

Product: **P-H-440 0,5L**

(ID no. 50680080/SDS_GEN_GB/EN)

Date of print 13.06.2024

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 2010/75/EU of the European Parliament and of the Council of 24 November 2010 on industrial emissions (integrated pollution prevention and control)

VOC content: 43.2 % organic solvents

VOC content:43.2 %calculatedVOC content:446.3 g/lcalculated

Prohibitions, Restrictions and Authorizations

UK REACH SI, Annex XVII, Marketing and Use Restrictions

Number on List: 3

UK REACH SI, Annex XVII, Marketing and Use Restrictions

Number on List: 40

UK REACH SI, Annex XVII, Marketing and Use Restrictions

Number on List: 28

UK REACH SI, Annex XVII, Marketing and Use Restrictions

Number on List: 29

solvent naphtha (petroleum), light aromatic, <0.1% benzene

solvent naphtha (petroleum), light aromatic, <0.1% benzene

Directive 2012/18/EU - Control of Major Accident Hazards involving dangerous substances (EU): Listed in above regulation: Flammable liquids, Categories 2 or 3 not covered by P5a and P5b

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

Subcategory as indicated in Annex IIB:

d

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

420 g/l

VOC content of the ready-for-use product according to ISO 11890-2:

419 g/l

Page: 19/20

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

time to time.

Date / Revised: 12.06.2024 Version: 13.1
Date / Previous version: 03.06.2024 Previous version: 13.0

Product: **P-H-440 0,5L**

(ID no. 50680080/SDS_GEN_GB/EN)

Date of print 13.06.2024

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:

Acute Tox. Acute toxicity

Eye Dam./Irrit. Serious eye damage/eye irritation

Skin Sens. Skin sensitization

STOT SE Specific target organ toxicity — single exposure STOT RE Specific target organ toxicity — repeated exposure

Flam. Liq. Flammable liquids
Skin Corr./Irrit. Skin corrosion/irritation
H226 Flammable liquid and vapour.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

H302 + H332 Harmful if swallowed or if inhaled.

H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled.

H318 Causes serious eye damage.

H315 Causes skin irritation.

H372 Causes damage to organs (Lung) through prolonged or repeated

exposure (inhalation).

EUH204 Contains isocyanates. May produce an allergic reaction.

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.

time to time.

Date / Revised: 12.06.2024 Version: 13.1

Date / Previous version: 03.06.2024 Previous version: 13.0

Product: **P-H-440 0,5L**

(ID no. 50680080/SDS_GEN_GB/EN)

Date of print 13.06.2024

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.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

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