

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: 25.07.2024

Version: 11.0

Date / Previous version: 01.02.2024

Previous version: 10.0

Product: **948-22 0,05L**

(ID no. 50770300/SDS_GEN_GB/EN)

Date of print 26.07.2024

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

1.1. Product identifier

948-22 0,05L

UFI: PXT4-RAJF-200H-TQQ5

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.

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

Acute Tox. 4 (oral)	H302 Harmful if swallowed.
Skin Corr./Irrit. 1B	H314 Causes severe skin burns and eye damage.
Eye Dam./Irrit. 1	H318 Causes serious eye damage.
Repr. 2	H361d Suspected of damaging the unborn child.
STOT SE 3	H335 May cause respiratory irritation.
Org. Perox. Type D	H242 Heating may cause a fire.

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:

Danger

Hazard Statement:

H242	Heating may cause a fire.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H335	May cause respiratory irritation.
H361d	Suspected of damaging the unborn child.

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):

P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
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 + P233	Store in a well-ventilated place. Keep container tightly closed.
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Precautionary Statements (Disposal):

P501	Dispose of contents and container to hazardous or special waste collection point.
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Hazard determining component(s) for labelling: 4-hydroxy-4-methylpentan-2-one, cyclohexanone peroxide

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, organic solvent

Hazardous ingredients (GHS)

4-hydroxy-4-methylpentan-2-one

Content (W/W): $\geq 30\%$ - $< 50\%$

CAS Number: 123-42-2

EC-Number: 204-626-7

REACH registration number: 01-2119473975-21

INDEX-Number: 603-016-00-1

Flam. Liq. 3

Eye Irrit. 2

Repr. 2 (unborn child)

STOT SE 3 (irr. to respiratory syst.)

H226, H319, H335, H361d

Specific concentration limit:

Eye Dam./Irrit. 2: $\geq 10\%$

cyclohexanone peroxide

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Content (W/W): $\geq 20\%$ - $< 25\%$	Org. Perox. A
CAS Number: 12262-58-7	Acute Tox. 4 (oral)
EC-Number: 235-527-7	STOT SE 3 (irr. to respiratory syst.)
	Skin Corr./Irrit. 1B
	H314, H302, H240, H335

Specific concentration limit:

STOT SE 3, irr. to respiratory syst.: $\geq 5.000000\%$

ethyl acetate

Content (W/W): $\geq 10\%$ - $< 12.5\%$	Flam. Liq. 2
CAS Number: 141-78-6	Eye Irrit. 2
EC-Number: 205-500-4	STOT SE 3 (drowsiness and dizziness)
REACH registration number: 01-2119475103-46	H225, H319, H336
INDEX-Number: 607-022-00-5	EUH066

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. Keep warm, calm and covered up. Immediately remove contaminated clothing. Never give anything by mouth to an unconscious person. In case of intoxication, call a poison control center or physician for treatment advice, taking the packaging or the label of the product. Symptoms of poisoning may occur even after several hours, continue medical observation for at least 48 hours after the accident.

If inhaled:

Immediate medical attention required. Remove the affected individual into fresh air and keep the person calm. 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:

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

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

Symptoms: irritation of respiratory tract, skin corrosion, 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: May cause severe burns of the mouth and throat if orally ingested, as well as a danger of perforation of the oesophagus and the stomach.

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

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. 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

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

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Contain and collect pastes with a plastic putty knife (see section 7). Contain and collect liquids with inert absorbent material such as vermiculite or perlite. 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. 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

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: tinned carbon steel (Tinplate), Carbon steel (Iron), Polypropylene (PP), Polyethylenetherephtalate (PET), Low density polyethylene (LDPE), High density polyethylene (HDPE), Stove-lacquer C222A/C221A, Stove-lacquer NOVOCAN S-G 500, Stove-lacquer Vitalure 745, Stove-lacquer Valspar HXR008F red, Stove-lacquer KNS L-5X, Stove-lacquer EHD0022, Stove-lacquer 79/14/3 (Müller/CH), Stove-lacquer R 78433, Stove-lacquer RDL 50

Further information on storage conditions: Keep container dry. 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. 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.

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

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Components with occupational exposure limits

123-42-2: 4-hydroxy-4-methylpentan-2-one

TWA value 241 mg/m³ ; 50 ppm (WEL/EH 40 (UK))

STEL value 362 mg/m³ ; 75 ppm (WEL/EH 40 (UK))

Ceiling limit value/factor: 15 min

141-78-6: ethyl acetate

TWA value 734 mg/m³ ; 200 ppm (WEL/EH 40 (UK))

STEL value 1,468 mg/m³ ; 400 ppm (WEL/EH 40 (UK))

Ceiling limit value/factor: 15 min

Biological limit values (BLV)

No data available.

Components with PNEC

123-42-2: 4-hydroxy-4-methylpentan-2-one

soil: 0.63 mg/kg

sediment (marine water): 0.91 mg/kg

intermittent release: 1 mg/l

sediment (freshwater): 9.06 mg/kg

freshwater: 2 mg/l

STP: 82 mg/l

marine water: 0.2 mg/l

141-78-6: ethyl acetate

freshwater: 0.24 mg/l

marine water: 0.024 mg/l

intermittent release: 1.65 mg/l

STP: 650 mg/l

sediment (freshwater): 1.15 mg/kg

sediment (marine water): 0.115 mg/kg

soil: 0.148 mg/kg

oral (secondary poisoning): 0.2 mg/kg

Components with DNEL

123-42-2: 4-hydroxy-4-methylpentan-2-one

consumer: Long-term exposure - local effects, by inhalation: 11.8 mg/m³

worker: Long-term exposure- systemic effects, by inhalation: 66.4 mg/m³

consumer: Long-term exposure- systemic effects, by inhalation: 11.8 mg/m³

worker: Long-term exposure- systemic effects, dermal: 9.4 mg/kg

worker: Short-term exposure - local effects, by inhalation: 240 mg/m³

May cause respiratory irritation.

worker: Long-term exposure - local effects, by inhalation: 66.4 mg/m³

consumer: Long-term exposure- systemic effects, oral: 3.4 mg/kg

consumer: Short-term exposure - local effects, by inhalation: 120 mg/m³

May cause respiratory irritation.

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consumer: Long-term exposure- systemic effects, dermal: 3.4 mg/kg
Repeated dose toxicity

141-78-6: ethyl acetate

worker: Long-term exposure - systemic and local effects, Inhalation: 734 mg/m³

worker: Long-term exposure- systemic effects, dermal: 63 mg/kg

worker: Short-term exposure - systemic and local effects, Inhalation: 1468 mg/m³

consumer: Long-term exposure- systemic effects, dermal: 37 mg/kg

consumer: Long-term exposure - systemic and local effects, Inhalation: 367 mg/m³

consumer: Long-term exposure- systemic effects, oral: 4.5 mg/kg

consumer: Short-term exposure - systemic and local effects, Inhalation: 734 mg/m³

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:

Wear respiratory protection if ventilation is inadequate.

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:

Required when there is a risk of eye contact., tight-fitting protective goggles with face screen

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.

Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene

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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:	pungent	
pH value:	3.5 - 5.0	
Melting point:		
	not determined	
onset of boiling:		
	not determined	
Flash point:	-4 °C	(ISO 3679)
Evaporation rate:		
	not determined	
Flammability:	not flammable	
Lower explosion limit:	36 g/m ³	
Upper explosion limit:		
	not determined	
Ignition temperature:	> 200 °C	
Vapour pressure:	0.026 hPa (20 °C)	(calculated)
	(50 °C)	
Density:	not determined 1.080 g/cm ³ (20 °C)	
Relative vapour density (air):	Heavier than air.	
Solubility in water:	not determined	
Partitioning coefficient n-octanol/water (log Kow):	not applicable for mixtures	
Thermal decomposition:	The product is capable of self-sustaining progressive thermal decomposition.	
Viscosity, kinematic:	6.0 mm ² /s (23 °C)	
	(40 °C)	
Explosion hazard:	No data available. not explosive	
Fire promoting properties:	not fire-propagating	

9.2. Other information

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Burning rate:	The material doesn't meet the criteria specified in paragraph 33.2.4.4 of UN manual of tests and criteria.	(UN Test N.1 (ready combustible solids))
Self heating ability:	It is not a material capable of spontaneous heating	
SADT:	60 °C	
Miscibility with water:	miscible	
Flow time:	< 30 s (23 °C)	(DIN EN ISO 2431; 3 mm)

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 heat. Avoid direct sunlight. Avoid impact, friction and electrostatic loading. Avoid all sources of ignition: heat, sparks, open flame.

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

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.

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Of moderate toxicity after single ingestion.

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.

Irritation

Assessment of irritating effects:

The liquid splashed in the eyes may cause irritation and reversible damage. Corrosive! Damages skin and eyes. May cause severe damage to the eyes.

May cause severe burns of the mouth and throat if orally ingested, as well as a danger of perforation of the oesophagus and the stomach.

Respiratory/Skin sensitization

Assessment of sensitization:

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

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:

The results of animal studies suggest a fertility impairing effect.

Developmental toxicity

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Assessment of teratogenicity:

Indications of possible developmental toxicity/teratogenicity were seen in animal studies.

Specific target organ toxicity (single exposure)

Assessment of STOT single:

Causes temporary irritation of the respiratory tract.

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

Assessment of repeated dose toxicity:

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

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 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

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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 11[□] waste paint and varnish containing organic solvents or other hazardous substances

Contaminated packaging:

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

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

SECTION 14: Transport Information

Land transport

ADR

UN number or ID number: UN3105

UN proper shipping name: ORGANIC PEROXIDE TYPE D, LIQUID (contains cyclohexanone peroxide)

Transport hazard class(es): 5.2

Packing group: Not applicable

Environmental hazards: no

Special precautions for user: Tunnel code: D

Protect from heat

RID

UN number or ID number: UN3105

UN proper shipping name: ORGANIC PEROXIDE TYPE D, LIQUID (contains cyclohexanone peroxide)

Transport hazard class(es): 5.2

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Packing group: Not applicable
Environmental hazards: no
Special precautions for user: Protect from heat

Inland waterway transport

ADN

UN number or ID number: UN3105
UN proper shipping name: ORGANIC PEROXIDE TYPE D, LIQUID (contains cyclohexanone peroxide)
Transport hazard class(es): 5.2
Packing group: Not applicable
Environmental hazards: no
Special precautions for user: Protect from heat

Transport in inland waterway vessel

Not evaluated

Sea transport

IMDG

UN number or ID number: UN 3105
UN proper shipping name: ORGANIC PEROXIDE TYPE D, LIQUID (contains cyclohexanone peroxide)
Transport hazard class(es): 5.2
Packing group: Not applicable
Environmental hazards: no
Marine pollutant: NO
Special precautions for user: Protect from heat

Air transport

IATA/ICAO

UN number or ID number: UN 3105
UN proper shipping name: ORGANIC PEROXIDE TYPE D, LIQUID (contains cyclohexanone peroxide)
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

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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 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:	46.0 %	organic solvents
VOC content:	46.0 %	calculated
VOC content:	496.8 g/l	calculated

Prohibitions, Restrictions and Authorizations

UK REACH SI, Annex XVII, Marketing and Use Restrictions

Number on List: 3

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

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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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

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
Skin Corr./Irrit.	Skin corrosion/irritation
Eye Dam./Irrit.	Serious eye damage/eye irritation
Repr.	Reproductive toxicity
STOT SE	Specific target organ toxicity — single exposure
Org. Perox.	Organic Peroxides
Flam. Liq.	Flammable liquids
Eye Irrit.	Eye irritation
H242	Heating may cause a fire.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H335	May cause respiratory irritation.
H361d	Suspected of damaging the unborn child.
H226	Flammable liquid and vapour.
H319	Causes serious eye irritation.
H240	Heating may cause an explosion.
H225	Highly flammable liquid and vapour.
H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.

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.

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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.

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.