

# 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: 20.05.2025

Version: 7.0

Date / Previous version: 02.06.2020

Previous version: 6.0

Product: **Emuldur® 381 A**

(ID no. 30679962/SDS\_GEN\_GB/EN)

Date of print 09.10.2025

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

### 1.1. Product identifier

**Emuldur® 381 A**

UFI: GG4D-K0DU-G008-FSMV

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

Relevant identified uses: Raw material, for industrial use only

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

Company:

BASF SE  
67056 Ludwigshafen  
GERMANY

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

Skin Sens. 1

H317 May cause an allergic skin reaction.

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:

H317 May cause an allergic skin reaction.

Precautionary Statements (Prevention):

P280 Wear protective gloves.

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

Precautionary Statements (Response):

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

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

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

Precautionary Statements (Disposal):

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

Labeling of special preparations (GHS):

EUH208: May produce an allergic reaction. Contains: 2-methylisothiazol-3(2H)-one, 1,2-benzisothiazol-3(2H)-one

Hazard determining component(s) for labelling: 2-methylisothiazol-3(2H)-one

## 2.3. Other hazards

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

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

Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting

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properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

## SECTION 3: Composition/Information on Ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

#### Chemical nature

Aqueous dispersion of a polymer based on: polyurethane

#### Hazardous ingredients (GHS)

##### | 1,2-benzisothiazol-3(2H)-one

Content (W/W): > 0 % - < 0.005 %	Acute Tox. 4 (oral)
CAS Number: 2634-33-5	Skin Corr./Irrit. 2
EC-Number: 220-120-9	Eye Dam./Irrit. 1
REACH registration number: 01-2120761540-60	Skin Sens. 1
	Aquatic Acute 1
	Aquatic Chronic 1
	M-factor acute: 1
	M-factor chronic: 1
	H318, H315, H302, H317, H400, H410

#### Specific concentration limit:

Skin Sens. 1: >= 0.05 %

##### | 2-methylisothiazol-3(2H)-one

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Content (W/W): > 0 % - < 0.005 %	Acute Tox. 2 (Inhalation - dust)
CAS Number: 2682-20-4	Acute Tox. 3 (oral)
EC-Number: 220-239-6	Acute Tox. 3 (dermal)
REACH registration number: 01-2120764690-50	Skin Corr. 1B
INDEX-Number: 613-326-00-9	Eye Dam. 1
	Skin Sens. 1A
	Aquatic Acute 1
	Aquatic Chronic 1
	M-factor acute: 10
	M-factor chronic: 1
	H330, H317, H314, H301 + H311, H400, H410
	EUH071
	<u>Specific concentration limit:</u>
	Skin Sens. 1A: >= 0.0015 %

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

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:

Wash thoroughly with soap and water

On contact with eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Rinse mouth and then drink 200-300 ml of water. Do not induce vomiting unless told to by a poison control center or doctor.

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

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: No hazards anticipated.

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

Treatment: Symptomatic treatment (decontamination, vital functions).

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## SECTION 5: Fire-Fighting Measures

### 5.1. Extinguishing media

Suitable extinguishing media:

water spray, dry powder, foam, carbon dioxide

### 5.2. Special hazards arising from the substance or mixture

Advice: No particular hazards known.

### 5.3. Advice for fire-fighters

Special protective equipment:

No data available.

Further information:

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.

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## SECTION 6: Accidental Release Measures

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

Use personal protective clothing. Avoid contact with skin and eyes.

### 6.2. Environmental precautions

Do not release untreated into natural waters.

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

For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr). Dispose of absorbed material in accordance with regulations.

For large amounts: Pump off product.

### 6.4. Reference to other sections

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

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## SECTION 7: Handling and Storage

### 7.1. Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. After long storage, slight quantities of carbon monoxide may be formed. To our best knowledge, the occupational exposure limit (OEL) is not exceeded during use. Entering of tanks must only be performed after intensive cleaning and when it is ensured that residual vapours have been removed. Consideration of national laws and international standards for confined space entry should be taken in to account. In case of doubt, the concentration of Carbon monoxide must be determined.

### 7.2. Conditions for safe storage, including any incompatibilities

Further information on storage conditions: Store protected against freezing.

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Protect from temperatures below: 5 °C

Protect from temperatures above: 60 °C

### 7.3. Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

## SECTION 8: Exposure Controls/Personal Protection

### 8.1. Control parameters

#### Components with occupational exposure limits

| No substance specific occupational exposure limits known.

#### Components with biological limit values

| 100545-61-7: Polymer in Emuldur 381 A

#### Components with PNEC

| 2634-33-5: 1,2-benzisothiazol-3(2H)-one  
 freshwater: 4.03 µg/l  
 marine water: 0.403 µg/l  
 STP: 1.03 mg/l  
 sediment (freshwater): 49.9 µg/kg  
 sediment (marine water): 4.99 µg/kg  
 soil: 3 mg/kg

| 2682-20-4: 2-methylisothiazol-3(2H)-one  
 freshwater: 3.39 µg/l  
 marine water: 3.39 µg/l  
 STP: 0.23 mg/l  
 sediment (freshwater):  
 No hazard identified.  
 sediment (marine water):  
 No hazard identified.  
 air:  
 No hazard identified.  
 soil: 0.047 mg/kg  
 oral (secondary poisoning):  
 No PNEC oral derived, as accumulation in organisms is not to be expected.

#### Components with DNEL

| 2634-33-5: 1,2-benzisothiazol-3(2H)-one  
 worker: Long-term exposure- systemic effects, Inhalation: 6.81 mg/m3  
 worker: Short-term exposure - systemic effects, Inhalation  
 No hazard identified.

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worker: Long- and short-term exposure - local effects, Inhalation  
No hazard identified.  
worker: Long-term exposure- systemic effects, dermal: 0.966 mg/kg  
No hazard identified.  
worker: Short-term exposure - systemic effects, dermal  
No hazard identified.  
worker: Long- and short-term exposure - local effects, dermal  
No DNELs have been derived.  
worker: Long- and short-term exposure - local effects, Eye  
No DNELs have been derived.  
consumer: Long-term exposure- systemic effects, Inhalation: 1.2 mg/m<sup>3</sup>  
consumer: Short-term exposure - systemic effects, Inhalation  
No hazard identified.  
consumer: Long- and short-term exposure - local effects, Inhalation  
No hazard identified.  
consumer: Long-term exposure- systemic effects, dermal: 0.345 mg/kg  
consumer: Short-term exposure - systemic effects, dermal  
No hazard identified.  
consumer: Long- and short-term exposure - local effects, dermal  
No DNELs have been derived.  
consumer: Long- and short-term exposure - systemic effects, oral  
No hazard identified.  
consumer: Long- and short-term exposure - local effects, Eye  
No DNELs have been derived.

#### 2682-20-4: 2-methylisothiazol-3(2H)-one

worker: Long- and short-term exposure - systemic effects, Inhalation  
No hazard identified.  
worker: Long-term exposure - local effects, Inhalation: 0.021 mg/m<sup>3</sup>  
May cause respiratory irritation.  
worker: Short-term exposure - local effects, Inhalation: 0.043 mg/m<sup>3</sup>  
May cause respiratory irritation.  
worker: Long- and short-term exposure - systemic effects, dermal  
No hazard identified.  
worker: Long-term exposure - local effects, dermal  
No hazard identified.  
worker: Short-term exposure - local effects, dermal  
Medium hazard (no threshold derived) Skin sensitization  
worker: Long- and short-term exposure - local effects, Eye  
No DNELs have been derived.  
consumer: Long- and short-term exposure - systemic effects, Inhalation  
No hazard identified.  
consumer: Long-term exposure - local effects, Inhalation: 0.021 mg/m<sup>3</sup>  
May cause respiratory irritation.  
consumer: Short-term exposure - local effects, Inhalation: 0.043 mg/m<sup>3</sup>  
May cause respiratory irritation.  
consumer: Long- and short-term exposure - systemic effects, dermal  
No hazard identified.  
consumer: Long-term exposure - local effects, dermal  
No hazard identified.

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consumer: Short-term exposure - local effects, dermal  
 Medium hazard (no threshold derived) Skin sensitization  
 consumer: Long-term exposure- systemic effects, oral: 0.027 mg/kg  
 Repeated dose toxicity  
 consumer: Short-term exposure - systemic effects, oral: 0.053 mg/kg  
 Repeated dose toxicity  
 consumer: Long- and short-term exposure - local effects, Eye  
 No DNELs have been derived.

## 8.2. Exposure controls

### Personal protective equipment

Hand protection:

Suitable chemical resistant safety gloves (EN ISO 374-1) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc. Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

### General safety and hygiene measures

Hands and/or face should be washed before breaks and at the end of the shift. Avoid contact with skin and eyes.

## SECTION 9: Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

Form:	liquid, dispersion
Colour:	milky white
Odour:	product specific
Odour threshold:	not determined
pH value:	8 - 10 (20 °C) (measured with the undiluted substance)
<i>Information on: Water</i>	
Melting point:	0 °C
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<i>Information on: Water</i>	
Boiling point:	100 °C
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Flash point:	not applicable



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Evaporation rate:

Value can be approximated from Henry's Law Constant or vapor pressure.

Flammability:

not flammable

(derived from flash - and boiling point)

Lower explosion limit:

For liquids not relevant for classification and labelling.

Upper explosion limit:

For liquids not relevant for classification and labelling.

Ignition temperature:

not applicable

*Information on: Water*

*Vapour pressure:*

23.4 hPa

(20 °C)

*Literature data.*

Density:

1.06 g/cm<sup>3</sup>

(20 °C)

(DIN 53217)

Relative density:

No data available.

Relative vapour density (air):

Water content greater than 10%.

Solubility in water:

partly soluble

(15 °C)

Partitioning coefficient n-octanol/water (log K<sub>ow</sub>):

not applicable

Self ignition:

not self-igniting

Thermal decomposition: No decomposition if used correctly.

Viscosity, dynamic:

12 - 25 mPa.s

(23 °C)

Explosion hazard:

not explosive

Fire promoting properties: not fire-propagating

## 9.2. Other information

Self heating ability:

It is not a substance capable of spontaneous heating.

Miscibility with water:

miscible

Flow time:

approx. 20 s

(20 °C)

(DIN 53211)

Other Information:

Range of particle size: < 0,1 µm - 10 µm

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## SECTION 10: Stability and Reactivity

### 10.1. Reactivity

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

Reactions with water/air:	Reaction with:	air
	Flammable gases:	no
	Toxic gases:	no
	Corrosive gases:	no
	Smoke or fog:	no
	Peroxides:	no

### 10.2. Chemical stability

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

Peroxides: The product does not contain peroxides. The product/the substance has not a tendency towards the formation of peroxide.

### 10.3. Possibility of hazardous reactions

No hazardous reactions when stored and handled according to instructions. After long storage, slight quantities of carbon monoxide may be formed.

### 10.4. Conditions to avoid

Avoid extreme temperatures.

### 10.5. Incompatible materials

Substances to avoid:

No substances known that should be avoided.

### 10.6. Hazardous decomposition products

No hazardous decomposition products if stored and handled as prescribed/indicated.

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## SECTION 11: Toxicological Information

### 11.1. Information on toxicological effects

#### Acute toxicity

Assessment of acute toxicity:

Virtually nontoxic after a single ingestion. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Experimental/calculated data:

LD50 rat (oral): > 2,000 - 10,000 mg/kg

rat (by inhalation): 8 h (IRT)

No mortality within the stated exposition time as shown in animal studies.

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### Irritation

Assessment of irritating effects:

If the product adheres to skin, irritation may occur when it dries.

Not irritating to the eyes. Not irritating to the skin. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Experimental/calculated data:

Skin corrosion/irritation

rabbit: non-irritant (OECD Guideline 404)

Serious eye damage/irritation

rabbit: non-irritant (OECD Guideline 405)

### Respiratory/Skin sensitization

Assessment of sensitization:

May cause sensitization by skin contact.

### Germ cell mutagenicity

Assessment of mutagenicity:

The substance was not mutagenic in bacteria. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

### Carcinogenicity

Assessment of carcinogenicity:

The whole of the information assessable provides no indication of a carcinogenic effect.

### Reproductive toxicity

Assessment of reproduction toxicity:

Not expected to cause reproductive toxicity (based on composition).

### Developmental toxicity

Assessment of teratogenicity:

The data available for an assessment of the effect of the substance on developmental toxicity are not sufficient for a proper evaluation.

### Specific target organ toxicity (single exposure)

Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

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

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#### Assessment of repeated dose toxicity:

No adverse effects were observed after repeated inhalative exposure in animal studies. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

#### Aspiration hazard

not applicable

#### Other relevant toxicity information

Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses. The statement was derived from products of similar composition.

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## SECTION 12: Ecological Information

### 12.1. Toxicity

#### Toxicity to fish:

LC50 (96 h) > 100 mg/l, Brachydanio rerio (OECD Guideline 203, static)

#### Aquatic invertebrates:

EC50 (48 h) > 100 mg/l, Daphnia magna (OECD Guideline 202, part 1, static)

#### Aquatic plants:

EC50 (72 h) > 100 mg/l, Scenedesmus subspicatus (OECD Guideline 201)

Nominal concentration.

#### Microorganisms/Effect on activated sludge:

EC20 (0.5 h) > 100 mg/l, activated sludge, domestic (DIN EN ISO 8192-OECD 209-88/302/EEC, P. C)

The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

### 12.2. Persistence and degradability

#### Assessment biodegradation and elimination (H<sub>2</sub>O):

The product can be virtually eliminated from water by abiotic processes e.g. adsorption onto activated sludge.

#### Elimination information:

> 70 % DOC reduction (OECD 302B; ISO 9888; 88/302/EEC, Teil C) Easily eliminated from water.

### 12.3. Bioaccumulative potential

Assessment bioaccumulation potential:

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Significant accumulation in organisms is not to be expected.  
Discharge into the environment must be avoided.

Bioaccumulation potential:

Based on its structural properties, the polymer is not biologically available. Accumulation in organisms is not to be expected.

#### **12.4. Mobility in soil**

Assessment transport between environmental compartments:  
Volatility: 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.

#### **12.7. Additional information**

Sum parameter

Chemical oxygen demand (COD): 740 mg/g

Biochemical oxygen demand (BOD) Incubation period 5 d: 12 mg/g

Adsorbable organically-bound halogen (AOX):  
No data available.

Other ecotoxicological advice:

Do not release untreated into natural waters. At the present state of knowledge, no negative ecological effects are expected.

Ecological data are determined by analogy.

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### **SECTION 13: Disposal Considerations**

#### **13.1. Waste treatment methods**

Must be disposed of or incinerated in accordance with local regulations.

A waste code in accordance with the European waste catalog (EWC) cannot be specified, due to dependence on the usage.

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Observe national and local legal requirements.

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

This product and any uncleaned containers must be disposed of as hazardous waste in accordance with the 2005 Hazardous Waste Regulations and amendments (United Kingdom)

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## SECTION 14: Transport Information

### Land transport

#### ADR

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

#### RID

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

### Inland waterway transport

#### ADN

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user:	None known

### Transport in inland waterway vessel

Not evaluated

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### **Sea transport**

#### IMDG

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

### **Air transport**

#### IATA/ICAO

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

#### **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**

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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: no

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

The data should be considered when making any assessment under the Control of Substances Hazardous to Health Regulations (COSHH), and related guidance, for example, 'COSHH Essentials' (United Kingdom).

#### 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

Any other intended applications should be discussed with the manufacturer.

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

Skin Sens.	Skin sensitization
Acute Tox.	Acute toxicity
Skin Corr./Irrit.	Skin corrosion/irritation
Eye Dam./Irrit.	Serious eye damage/eye irritation
Aquatic Acute	Hazardous to the aquatic environment - acute
Aquatic Chronic	Hazardous to the aquatic environment - chronic
Skin Corr.	Skin corrosion
Eye Dam.	Serious eye damage
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H315	Causes skin irritation.
H302	Harmful if swallowed.
H400	Very toxic to aquatic life.



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

Date / Revised: 20.05.2025

Version: 7.0

Date / Previous version: 02.06.2020

Previous version: 6.0

Product: **Emuldur® 381 A**

(ID no. 30679962/SDS\_GEN\_GB/EN)

Date of print 09.10.2025

H410	Very toxic to aquatic life with long lasting effects.
H330	Fatal if inhaled.
H314	Causes severe skin burns and eye damage.
H301 + H311	Toxic if swallowed or in contact with skin.
H302 + H332	Corrosive to the respiratory tract.

#### 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.

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.