

# Safety data sheet

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BASF Safety data sheet according to the United Nations' Globally Harmonized System (UN GHS)

Date / Revised: 14.06.2024

Version: 1.3

Product: **R+D HyCon R 7400 F**

(ID no. 30843620/SDS\_GEN\_00/EN)

Date of print 13.10.2025

## 1. Identification

### Product identifier

**R+D HyCon R 7400 F**

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

Relevant identified uses: Product for construction chemicals, for industrial use only

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

Company:

BASF SE

67056 Ludwigshafen

GERMANY

Regional Business Unit Dispersions Europe

Telephone: +49 621 60-0

E-mail address: ed-psr@basf.com

### Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

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## 2. Hazards Identification

### Classification of the substance or mixture

According to UN GHS criteria

No need for classification according to GHS criteria for this product.

## Label elements

### Globally Harmonized System (GHS)

The product does not require a hazard warning label in accordance with GHS criteria.

## Other hazards

### According to UN GHS criteria

The product is under certain conditions capable of dust explosion.

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## 3. Composition/Information on Ingredients

### Substances

Not applicable

### Mixtures

#### Chemical nature

#### Hazardous ingredients (GHS)

According to UN GHS criteria

##### Ammonium sulphate

Content (W/W):  $\geq 3\%$  -  $< 5\%$   
CAS Number: 7783-20-2  
EC-Number: 231-984-1

Acute Tox. 5 (oral)  
Aquatic Acute 3  
H303, H402

##### Disodium maleate

Content (W/W):  $\geq 0,3\%$  -  $< 1\%$   
CAS Number: 371-47-1  
EC-Number: 206-738-1

Acute Tox. 5 (oral)  
Skin Corr./Irrit. 2  
Eye Dam./Irrit. 2A  
Skin Sens. 1  
STOT SE 3 (irr. to respiratory syst.)  
H319, H315, H303, H317, H335

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

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## 4. First-Aid Measures

### Description of first aid measures

Remove contaminated clothing.

If inhaled:

If difficulties occur after dust has been inhaled, remove to fresh air and seek medical attention.

On skin contact:

Wash thoroughly with soap and water

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

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.

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

Symptoms: (Further) symptoms and / or effects are not known so far

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

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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## 5. Fire-Fighting Measures

### Extinguishing media

Suitable extinguishing media:  
dry powder, foam

Unsuitable extinguishing media for safety reasons:  
carbon dioxide

Additional information:

Avoid whirling up the material/product because of the danger of dust explosion.

### Special hazards arising from the substance or mixture

harmful vapours

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

### Advice for fire-fighters

Special protective equipment:

Wear a self-contained breathing apparatus.

Further information:

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

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## 6. Accidental Release Measures

### **Personal precautions, protective equipment and emergency procedures**

Avoid dust formation. Use personal protective clothing.

### **Environmental precautions**

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

### **Methods and material for containment and cleaning up**

For small amounts: Pick up with suitable appliance and dispose of.

For large amounts: Contain with dust binding material and dispose of.

Avoid raising dust.

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## 7. Handling and Storage

### **Precautions for safe handling**

Breathing must be protected when large quantities are decanted without local exhaust ventilation.

Protection against fire and explosion:

Avoid dust formation. Take precautionary measures against static discharges.

### **Conditions for safe storage, including any incompatibilities**

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

### **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.

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## 8. Exposure Controls/Personal Protection

### **Control parameters**

#### Components with occupational exposure limits

7757-82-6: Sodium sulphate

7783-20-2: Ammonium sulphate

112945-52-5: Silica, amorphous, fumed, cryst.-free

7631-86-9: Silicon dioxide

## Exposure controls

### Personal protective equipment

#### Respiratory protection:

Suitable respiratory protection for lower concentrations or short-term effect: Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)

#### Hand protection:

Chemical resistant protective gloves (EN ISO 374-1)

Suitable materials 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), polyvinylchloride (0.7 mm) and other

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.

Manufacturer's directions for use should be observed because of great diversity of types.

#### Eye protection:

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

### General safety and hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is recommended.

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## 9. Physical and Chemical Properties

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

State of matter:	solid
Form:	solid
Colour:	light brown
Odour:	earthy
Odour threshold:	not determined
Melting point:	not determined
Boiling point:	not determined
Flammability:	not determined
Lower explosion limit:	For solids not relevant for classification and labelling.
Upper explosion limit:	For solids not relevant for classification and labelling.
Flash point:	Study does not need to be conducted.
Auto-ignition temperature:	> 600 °C
Thermal decomposition:	not determined
pH value:	6 - 6,5 (20 °C)

(VDI 2263, sheet 1, 2.6 (May 1990))

Viscosity, dynamic:	Study does not need to be conducted.
Solubility in water:	soluble
Partitioning coefficient n-octanol/water (log Kow):	Study does not need to be conducted.
Vapour pressure:	not applicable
Density:	No data available.
Relative vapour density (air):	The product is a non-volatile solid.

Particle characteristics

Particle size distribution: No data available. -

**9.2. Other information****Information with regard to physical hazard classes**Explosives

Explosion hazard: not explosive

Oxidizing properties

Fire promoting properties: not fire-propagating

Self-heating substances and mixtures

Self heating ability: It is not a substance capable of spontaneous heating.

**Other safety characteristics**

Minimum ignition energy: (DIN EN ISO/IEC 80079-20-2)

The product is capable of dust explosion.

Bulk density: 400 - 600 kg/m<sup>3</sup>  
(20 °C)

Hygroscopy: hygroscopic

SAPT-Temperature: Product does not fulfil criteria for polymerizing substances according to transport regulations.

Evaporation rate: The product is a non-volatile solid.

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**10. Stability and Reactivity****Reactivity**

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

**Chemical stability**

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

**Possibility of hazardous reactions**

Dust explosion hazard.

**Conditions to avoid**

See SDS section 7 - Handling and storage.

**Incompatible materials**

Substances to avoid:

strong acids, strong bases, strong oxidizing agents, strong reducing agents

**Hazardous decomposition products**

Hazardous decomposition products:

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

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**11. Toxicological Information****Information on toxicological effects**Acute toxicity

Assessment of acute toxicity:

Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact.

Experimental/calculated data:

LD50 rat (oral): > 5.000 mg/kg

The product has not been tested. The statement has been derived from the properties of the individual components.

LC50 rat (by inhalation): 4 h

not determined

LD50 rat (dermal): > 5.000 mg/kg

The product has not been tested. The statement has been derived from the properties of the individual components.

Irritation

Assessment of irritating effects:

Not irritating to the skin. Not irritating to the eyes. May cause slight irritation to the respiratory tract.

Experimental/calculated data:

Skin corrosion/irritation rabbit: non-irritant

The product has not been tested. The statement has been derived from the properties of the individual components.

Serious eye damage/irritation rabbit: non-irritant

The product has not been tested. The statement has been derived from the properties of the individual components.

Respiratory/Skin sensitization

Assessment of sensitization:

A sensitizing effect on particularly sensitive individuals cannot be excluded.

Experimental/calculated data:

guinea pig: Non-sensitizing. (OECD Guideline 406)

The product has not been tested. The statement has been derived from the properties of the individual components.

Germ cell mutagenicity

Assessment of mutagenicity:

No data available concerning mutagenic effects.

Carcinogenicity

Assessment of carcinogenicity:

No data available.

Reproductive toxicity

Assessment of reproduction toxicity:

No data available.

Developmental toxicity

Assessment of teratogenicity:

No data available.

Specific target organ toxicity (single exposure)

Remarks: No data available.

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

Assessment of repeated dose toxicity:

No data available.

Aspiration hazard

not applicable

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## 12. Ecological Information

### Toxicity

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms.

Toxicity to fish:

LC50 (96 h) > 100 mg/l, Fish



The product has not been tested. The statement has been derived from the properties of the individual components.

Aquatic invertebrates:

LC50 (48 h), daphnia  
not determined

Aquatic plants:

EC50 (72 h), algae  
not determined

Microorganisms/Effect on activated sludge:

EC50 (0,5 h), bacteria  
not determined

Chronic toxicity to fish:

No data available.

Chronic toxicity to aquatic invertebrates:

No data available.

Assessment of terrestrial toxicity:

No data available concerning terrestrial toxicity.

### **Persistence and degradability**

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

The organic component of the product is biodegradable. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

### **Bioaccumulative potential**

Assessment bioaccumulation potential:

No data available.

### **Mobility in soil**

Assessment transport between environmental compartments:

Volatility: No data available.

### **Additional information**

Add. remarks environm. fate & pathway:

Treatment in biological waste water treatment plants has to be performed according to local and administrative regulations.

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## **13. Disposal Considerations**

## Waste treatment methods

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

Contaminated packaging:

Uncontaminated packaging can be re-used.

Packs that cannot be cleaned should be disposed of in the same manner as the contents.

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## 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

**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

**Maritime transport in bulk according to IMO instruments**

Maritime transport in bulk is not intended.

**15. Regulatory Information****Safety, health and environmental regulations/legislation specific for the substance or mixture**

Not applicable

**16. Other Information**

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

Acute Tox.	Acute toxicity
Aquatic Acute	Hazardous to the aquatic environment - acute
Skin Corr./Irrit.	Skin corrosion/irritation
Eye Dam./Irrit.	Serious eye damage/eye irritation
Skin Sens.	Skin sensitization
STOT SE	Specific target organ toxicity — single exposure
H303	May be harmful if swallowed.
H402	Harmful to aquatic life.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.

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H335

May cause respiratory irritation.

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.

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