

# Safety Data Sheet

## R+D Clay Comp. Superplasticizer – 2ND Generation

Revision date : 2020/07/15

Version: 1.0

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(83015742/SDS\_GEN\_US/EN)

### 1. Identification

**Product identifier used on the label**

## R+D Clay Comp. Superplasticizer – 2ND Generation

**Recommended use of the chemical and restriction on use**

Recommended use\*: for research purposes only

\* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

**Details of the supplier of the safety data sheet**

Company:

BASF Construction Additives GmbH  
Dr.-Albert-Frank-Str.32  
D-83308 Trostberg  
GERMANY

Contact address:

BASF CORPORATION  
100 Park Avenue  
Florham Park, NJ 07932  
USA  
Telephone: +1 973 245-6000

**Emergency telephone number**

CHEMTREC: 1-800-424-9300  
BASF HOTLINE: 1-800-832-HELP (4357)

**Other means of identification**

Chemical family: polycarboxylate ether, aqueous solution

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### 2. Hazards Identification

**According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200**

**Classification of the product**

Skin Sens. 1B Skin sensitization

**Label elements**

Pictogram:

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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.  
P272 Contaminated work clothing should not be allowed out of the workplace.

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.

### Hazards not otherwise classified

No specific dangers known, if the regulations/notes for storage and handling are considered.

#### Labeling of special preparations (GHS):

Caution - substance not yet fully tested. This is a research sample and has not been assessed for environmental, health and safety aspects.

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### 3. Composition / Information on Ingredients

#### According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

triisobutyl phosphate  
CAS Number: 126-71-6  
Content (W/W): >= 0.0 - < 1.0%  
Synonym: Phosphoric acid tris(2-methylpropyl) ester; Triisobutyl phosphate

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### 4. First-Aid Measures

#### Description of first aid measures

**General advice:**  
Immediately remove contaminated clothing.

**If inhaled:**  
Keep patient calm, remove to fresh air, seek medical attention. Assist in breathing if necessary.

**If on skin:**  
Wash affected areas thoroughly with soap and water. Seek medical attention.

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### **If in eyes:**

Wash affected eyes for at least 15 minutes under running water with eyelids held open. If irritation develops, seek medical attention.

### **If swallowed:**

Rinse mouth and then drink 200-300 ml of water. Do not induce vomiting. Seek medical attention.

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

Symptoms: allergic contact dermatitis

Hazards: No applicable information available.

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

#### Note to physician

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:  
water spray, dry powder, foam

### **Special hazards arising from the substance or mixture**

Hazards during fire-fighting:

harmful vapours

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

### **Advice for fire-fighters**

Protective equipment for fire-fighting:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

### **Further information:**

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**

Use personal protective clothing.

### **Environmental precautions**

Do not discharge into drains/surface waters/groundwater.

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

For small amounts: Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder).

Dispose of absorbed material in accordance with regulations.

For large amounts: Pump off product.

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

Spills should be contained, solidified, and placed in suitable containers for disposal.

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### 7. Handling and Storage

#### Precautions for safe handling

No special measures necessary provided product is used correctly.

Protection against fire and explosion:

No special precautions necessary.

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

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

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### 8. Exposure Controls/Personal Protection

No occupational exposure limits known.

#### Advice on system design:

Ensure adequate ventilation.

#### Personal protective equipment

##### Respiratory protection:

Wear respiratory protection if ventilation is inadequate.

##### Hand protection:

Chemical resistant protective gloves

##### Eye protection:

Safety glasses with side-shields. Wear face shield if splashing hazard exists.

##### Body protection:

Impermeable protective clothing

##### General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice.

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### 9. Physical and Chemical Properties

Form:	liquid
Odour:	product specific
Odour threshold:	No applicable information available.
Colour:	yellowish to brown
pH value:	approx. 5.0 - 8.0 ( 20 °C)
Sublimation point:	No applicable information available.
Flash point:	not applicable
Flammability:	not determined
Lower explosion limit:	For liquids not relevant for classification and labelling. The lower explosion point may be 5 - 15 °C below the flash point.

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Upper explosion limit:	For liquids not relevant for classification and labelling.
Autoignition:	not determined
Vapour pressure:	No applicable information available.
Density:	approx. 1.0 - 1.2 g/cm <sup>3</sup> ( 20 °C)
Relative density:	No applicable information available.
Vapour density:	No applicable information available.
Thermal decomposition:	not determined
Viscosity, dynamic:	No applicable information available.
Viscosity, kinematic:	No applicable information available.
Solids content:	39 - 41 % ( 20 °C)
Solubility in water:	not determined
Miscibility with water:	( 20 °C) completely (e.g. >=90%)
Solubility (quantitative):	No applicable information available.
Solubility (qualitative):	No applicable information available.
Evaporation rate:	No applicable information available.

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## 10. Stability and Reactivity

### Reactivity

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

Corrosion to metals:

Corrosive effects to metal are not anticipated.

Oxidizing properties:

not fire-propagating

### Chemical stability

The product is chemically stable.

### Possibility of hazardous reactions

No hazardous reactions when stored and handled according to instructions.

The product is chemically stable.

### Conditions to avoid

No conditions known that should be avoided.

### Incompatible materials

No substances known that should be avoided.

### Hazardous decomposition products

Decomposition products:

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

Thermal decomposition:

not determined

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## 11. Toxicological information

### Primary routes of exposure

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Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

### Acute Toxicity/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.

#### Oral

Type of value: LD50

Species: rat

Value: > 2,000 mg/kg

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

#### Inhalation

Type of value: LC50

Species: rat

Exposure time: 4 h

not determined

#### Dermal

Type of value: LD50

Species: rat

not determined

#### Assessment other acute effects

No data available.

#### Skin

Species: rabbit

Result: non-irritant

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

#### Eye

Species: rabbit

Result: non-irritant

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

#### Sensitization

Assessment of sensitization: Sensitization after skin contact possible. The product has not been tested. The statement has been derived from the properties of the individual components.

#### Aspiration Hazard

No aspiration hazard expected.

### Chronic Toxicity/Effects

#### Repeated dose toxicity

Assessment of repeated dose toxicity: No data available.

#### Genetic toxicity

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Assessment of mutagenicity: Based on the ingredients, there is no suspicion of a mutagenic effect.

### Carcinogenicity

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

### Reproductive toxicity

Assessment of reproduction toxicity: Based on the ingredients, there is no suspicion of a toxic effect on reproduction.

### Teratogenicity

Assessment of teratogenicity: Based on the ingredients, there is no suspicion of a teratogenic effect.

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## 12. Ecological Information

### **Toxicity**

#### Aquatic 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

#### Chronic toxicity to fish

No data available.

#### Chronic toxicity to aquatic invertebrates

No data available.

### **Microorganisms/Effect on activated sludge**

#### Toxicity to microorganisms

bacteria/EC50 (0.5 h):

not determined

### **Persistence and degradability**

#### Assessment biodegradation and elimination (H2O)

No data available concerning biodegradation and elimination.

### **Bioaccumulative potential**

#### Assessment bioaccumulation potential

The product has not been tested.

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### Mobility in soil

#### Assessment transport between environmental compartments

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 disposal of substance:**

Dispose of in accordance with national, state and local regulations.

It is the waste generator's responsibility to determine if a particular waste is hazardous under RCRA.

### **Container disposal:**

Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

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## 14. Transport Information

### **Land transport**

USDOT

Not classified as a dangerous good under transport regulations

### **Sea transport**

IMDG

Not classified as a dangerous good under transport regulations

### **Air transport**

IATA/ICAO

Not classified as a dangerous good under transport regulations

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## 15. Regulatory Information

### Federal Regulations

#### **Registration status:**

Chemical TSCA, US released w/o restriction f. BASF / not listed

**EPCRA 311/312 (Hazard categories):** Refer to SDS section 2 for GHS hazard classes applicable for this product.

#### **Safe Drinking Water & Toxic Enforcement Act, CA Prop. 65:**

**WARNING:** This product can expose you to chemicals including ETHYLENE OXIDE, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).



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**NFPA Hazard codes:**

Health: 2

Fire: 0

Reactivity: 0

Special:

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### 16. Other Information

**SDS Prepared by:**

BASF NA Product Regulations

SDS Prepared on: 2020/07/15

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

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END OF DATA SHEET