

Safety data sheet

Page: 1/11

BASF Safety data sheet
Date / Revised: 27.01.2025
Product: **Rheovis® AS 1180**

Version: 3.0

(30041264/SDS_GEN_SG/EN)

Date of print: 21.10.2025

1. Substance/preparation and manufacturer/supplier identification

Product name:
Rheovis® AS 1180

Use: Raw material, for industrial use only

Manufacturer/supplier:
BASF South East Asia Pte Ltd.
128 Beach Road #18-01
Guoco Midtown, 189773, Singapore
Telephone: +65 8322 4420
Telefax number: +65 6 334-0330
E-mail address: benny.zou@basf.com

Emergency information:
Singapore Emergency Toll-Free Number:
Telephone: 1800-723-1361
International emergency number:
Telephone: +49 180 2273-112

2. Hazard identification

Classification of the substance and mixture:
Flammable liquids: Cat.4
Skin irritation: Cat.3
Eye irritation: Cat.2A
Hazardous to the aquatic environment - acute: Cat.2

Label elements and precautionary statement:

Pictogram:



Signal Word:
Warning

Hazard Statement:

H227	Combustible liquid.
H319	Causes serious eye irritation.
H316	Causes mild skin irritation.
H401	Toxic to aquatic life.

Precautionary Statements (Prevention):

P280	Wear eye protection.
P273	Avoid release to the environment.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280	Wear protective gloves and eye protection or face protection.
P264	Wash contaminated body parts thoroughly after handling.

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.
P337 + P313	If eye irritation persists: Get medical attention.
P332 + P313	If skin irritation occurs: Get medical attention.
P370 + P378	In case of fire: Use water spray, dry powder or foam for extinction.

Precautionary Statements (Storage):

P403	Store in a well-ventilated place.
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Precautionary Statements (Disposal):

P501	Dispose of contents and container to hazardous or special waste collection point.
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Other hazards which do not result in classification:

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

3. Composition/information on ingredients

Chemical nature

Substance nature: mixture

polyacrylate, mineral oil, in water

Hazardous ingredients

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ammonia, aqueous solution

Content (W/W): $\geq 0\%$ - $< 0.2\%$

CAS Number: 1336-21-6

Skin Corr.: Cat. 1B

Eye Dam.: Cat. 1

STOT SE: Cat. 3 (irr. to respiratory syst.)

Aquatic Acute: Cat. 1

Aquatic Chronic: Cat. 2

M-factor acute: 1

Alcohols, C12-15-branched and linear, ethoxylated propoxylated

Content (W/W): $\geq 1\%$ - $< 3\%$

CAS Number: 120313-48-6

Skin Corr./Irrit.: Cat. 2

Eye Dam./Irrit.: Cat. 1

Aquatic Acute: Cat. 1

Aquatic Chronic: Cat. 3

Distillates (petroleum), hydrotreated light

Content (W/W): $\geq 20\%$ - $< 25\%$

CAS Number: 64742-47-8

Asp. Tox.: Cat. 1

Flam. Liq.: Cat. 4

4. First-Aid Measures

General advice:

Remove contaminated clothing.

If inhaled:

If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and 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.

Note to physician:

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

Hazards: When inhaled (e.g. during vomiting) risk of pulmonary oedema and/or pneumonia.

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

5. Fire-Fighting Measures

Suitable extinguishing media:

water spray, dry powder, foam

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Specific hazards:

harmful vapours

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

Further information:

Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. Accidental Release Measures

Personal precautions:

Use personal protective clothing.

Environmental precautions:

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

Methods for cleaning up or taking up:

For large amounts: Pump off product.

For residues: Pick up with suitable absorbent material. Dispose of absorbed material in accordance with regulations.

Additional information: High risk of slipping due to leakage/spillage of product.

7. Handling and Storage

Handling

Use suitable eye protection.

Protection against fire and explosion:

No special precautions necessary.

Storage

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

Storage stability:

Storage temperature: -10 - 35 °C

8. Exposure controls and personal protection

Components with occupational exposure limits

ammonia, aqueous solution, 1336-21-6;

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STEL value 35 ppm (ACGIHTLV)
 TWA value 25 ppm (ACGIHTLV)
 STEL value 24 mg/m³ ; 35 ppm (OEL (SG))
 TWA value 17 mg/m³ ; 25 ppm (OEL (SG))

Personal protective equipment

Respiratory protection:

Respiratory protection in case of vapour/aerosol release. 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

Suitable materials for short-term contact (recommended: At least protective index 2, corresponding > 30 minutes of permeation time according to EN ISO 374-1)

butyl rubber (butyl) - 0.7 mm coating thickness

nitrile rubber (NBR) - 0.4 mm coating thickness

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.

9. Physical and Chemical Properties

Form:	liquid	
Colour:	white	
Odour:	ammonia-like	
Odour threshold:	No data available.	
pH value:	7.5 - 9.0	(DIN ISO 976)
Freezing point:	not determined	
Boiling point:	No data available.	
Flash point:	74 °C	(DIN 51758)
Evaporation rate:	not determined	
Flammability (solid/gas):	not flammable	(derived from flash point)
Lower explosion limit:	34.9 %(V)	
Upper explosion limit:	90.5 %(V)	
Ignition temperature:	455 °C	(DIN 51794)

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Thermal decomposition:	No decomposition if used as directed.	
Self ignition:	not self-igniting	
Self heating ability:	Study scientifically not justified.	
Explosion hazard:	not explosive	
Fire promoting properties:	not fire-propagating	
Vapour pressure:	123 mbar (50 °C)	
Density:	approx. 1.0 g/cm ³ (20 °C)	(ISO 2811-1)
Relative density:	No data available.	
Bulk density:	not applicable	
Relative vapour density (air):	not determined	
Solubility in water:	dispersible (20 °C)	
Miscibility with water:	miscible	
Partitioning coefficient n-octanol/water (log Pow):	not applicable for mixtures	
Surface tension:	No data available.	
Viscosity, dynamic:	100 - 300 mPa.s (23 °C, 250 1/s)	(DIN EN ISO 3219)
Viscosity, kinematic:	No data available.	
Flow time:	28 s (20 °C)	(DIN 53211)
Solids content:	26.0 - 32.0 %	(DIN EN ISO 3251)

Particle characteristics

Particle size distribution:	The substance / product is marketed or used in a non solid or granular form. -
Specific Surface Area:	No data available.
Particle Shape:	No data available.
Dustiness:	No data available.

10. Stability and Reactivity

Conditions to avoid:
Avoid extreme temperatures.

Thermal decomposition: No decomposition if used as directed.

Substances to avoid:
strong oxidizing agents, strong acids, strong bases

Hazardous reactions:
No hazardous reactions when stored and handled according to instructions.

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

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

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

11. Toxicological Information

Routes of exposure

Acute oral toxicity

Experimental/calculated data:
LD50rat (oral): > 5,000 mg/kg (BASF-Test)

Acute inhalation toxicity

LC50 rat (by inhalation):
not determined

Acute dermal toxicity

LD50 rat (dermal):
not determined

Assessment of acute toxicity

Virtually nontoxic after a single ingestion.

Symptoms

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

Irritation

Assessment of irritating effects:
No data available.

Experimental/calculated data:
Skin corrosion/irritation rabbit: Slightly irritating. (OECD Guideline 404)

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

Serious eye damage/irritation rabbit: Irritant. (OECD Guideline 405)

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

Respiratory/Skin sensitization

Assessment of sensitization:

No sensitizing effect. The product has not been tested. The statement has been derived from the properties of the individual components.

Experimental/calculated data:
not determined

Germ cell mutagenicity

Assessment of mutagenicity:

The substance was not mutagenic in bacteria.

Carcinogenicity

Assessment of carcinogenicity:

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

Experimental/calculated data:
No data available.

Reproductive toxicity

Assessment of reproduction toxicity:

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

Experimental/calculated data:
No data available.

Developmental toxicity

Assessment of teratogenicity:

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

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:

The information available on the product provides no indication of toxicity on target organs after repeated exposure.

Experimental/calculated data:
No data available.

Aspiration hazard

No aspiration hazard expected.

12. Ecological Information

Ecotoxicity

Assessment of aquatic toxicity:
Acutely toxic for aquatic organisms.

Toxicity to fish:
LC50 (96 h) 71 mg/l, *Brachydanio rerio* (OECD 203; ISO 7346; 92/69/EWG, C.1, semistatic)

Aquatic invertebrates:
EC50 (48 h) 3 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, static)

Aquatic plants:
EC50 (72 h) 4.5 mg/l (growth rate), *Scenedesmus subspicatus* (OECD Guideline 201, static)

Microorganisms/Effect on activated sludge:
> 1,000 mg/l, *Bacillus subtilis* (DEV-L2)
Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

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.

Mobility

Assessment transport between environmental compartments:
No data available.

Persistence and degradability

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

Elimination information:
> 70 % COD reduction (OECD 302B; ISO 9888; 88/302/EWG, Teil C) Easily eliminated from water.

Sum parameter

Chemical oxygen demand (COD): 635 mg/g

Biochemical oxygen demand (BOD) Incubation period 5 d: 235 mg/g

Biochemical oxygen demand (BOD) Incubation period 30 d: 605 mg/g

Bioaccumulation potential

Assessment bioaccumulation potential:
The product has not been tested.

Bioaccumulation potential:
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.

Other ecotoxicological advice:
Do not release untreated into natural waters.

13. Disposal Considerations

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.

14. Transport Information

Domestic transport:

	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

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
	Marine pollutant: no
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
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**Other regulations**

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

16. Other Information

Any other intended applications should be discussed with the manufacturer.

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

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.