

Safety data sheet

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BASF Safety data sheet according to Regulation (EC) No. 1907/2006

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Product: **ZETAG® 8125**

(30470894/SDS_GEN_EU/EN)

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1. Identification of the substance/mixture and of the company/undertaking

ZETAG® 8125

Use: flocculation agent

Company:

BASF SE

67056 Ludwigshafen

GERMANY

Water-Solutions

Telephone: +44 1274 417570

E-mail address: psr_wpt@ciba.com

Emergency information:

International emergency number:

Telephone: +49 180 2273-112

2. Hazards Identification

According to REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

Label elements and precautionary statement:

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

Classification of the substance and mixture:

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

Possible Hazards (according to Directive 67/548/EWG or 1999/45/EC)

| May cause some eye irritation which should cease after removal of the product.

| May cause some irritation to the respiratory system if dust is inhaled.

| Prolonged contact with the product can result in skin irritation.

| This type of product has a tendency to create dust if roughly handled. It does not burn readily but as with many organic powders, flammable dust clouds may be formed in air.

| Very slippery when wet.

| Low acute LC50/EC50 to aquatic organisms, but does not cause long-term adverse effects in the aquatic environment. See section 12 for details.

3. Composition/Information on Ingredients

Chemical nature

polyacrylamide, cationic

Hazardous ingredients (GHS)

according to Regulation (EC) No. 1272/2008

adipic acid

Content (W/W): $\geq 2\%$ - $\leq 6\%$	Eye dam./irr.: Cat. 2
CAS Number: 124-04-9	
EC-Number: 204-673-3	
INDEX-Number: 607-144-00-9	

Hazardous ingredients

according to Directive 1999/45/EC

Adipic acid

Content (W/W): $\geq 2\%$ - $\leq 6\%$
CAS Number: 124-04-9
EC-Number: 204-673-3
Hazard symbol(s): Xi
R-phrases: 36

The wording of the hazard symbols and R-phrases is specified in chapter 16 if dangerous ingredients are mentioned.

4. First-Aid Measures

General advice:

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 plenty of water. Check breathing and pulse. Place victim in the recovery position, cover and keep warm. Loosen tight clothing such as a collar, tie, belt or waistband. Seek medical attention. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

Note to physician:

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

5. Fire-Fighting Measures

Suitable extinguishing media:
dry powder, foam

Unsuitable extinguishing media for safety reasons:
| water jet, carbon dioxide

Additional information:

| If water is used, restrict pedestrian and vehicular traffic in areas where slip hazard may exist.

Specific hazards:

| carbon oxides, nitrogen oxides

| The substances/groups of substances mentioned can be released in case of fire. Very slippery when wet.

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.

6. Accidental Release Measures

Personal precautions:

Avoid dust formation. Use personal protective clothing.

Environmental precautions:

Do not discharge into drains/surface waters/groundwater.

Methods for cleaning up or taking up:

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

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

| Spilled product which becomes wet or spilled aqueous solution create a hazard because of their slippery nature. Avoid raising dust.

7. Handling and Storage

Handling

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

| Handle in accordance with good industrial hygiene and safety practice. Forms slippery surfaces with water.

Protection against fire and explosion:
Avoid dust formation. Take precautionary measures against static discharges.

Storage

Further information on storage conditions: Store in unopened original containers in a cool and dry place. Avoid wet, damp or humid conditions, temperature extremes and ignition sources.

Storage stability:
| Avoid extreme heat.

8. Exposure Controls/Personal Protection

Components with workplace control parameters

- | Particles, not otherwise specified, respirable
- | Particles, not otherwise specified, inhalable

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 374)
Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374):
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)

Body protection:
| light protective clothing

General safety and hygiene measures:
| Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation.
| Wearing of closed work clothing is recommended.

9. Physical and Chemical Properties

Form:	powder
Colour:	off-white
Odour:	odourless
pH value: (10 g/l)	3.5 - 4.5
Melting point:	The substance / product decomposes therefore not determined.
Boiling point:	The product is a non-volatile solid.
Flash point:	not applicable
Lower explosion limit:	not applicable
Upper explosion limit:	not applicable
Bulk density:	750 kg/m ³
Solubility in water:	Forms a viscous solution.
Partitioning coefficient n-octanol/water (log Pow):	not applicable
Viscosity, kinematic:	No data available.

10. Stability and Reactivity

- Conditions to avoid:
Avoid extreme temperatures. Avoid humidity. Avoid electro-static discharge. Avoid sources of ignition.
- Substances to avoid:
strong acids, strong bases, strong oxidizing agents
- Hazardous reactions:
The product is not a dust explosion risk as supplied; however the build-up of fine dust can lead to a risk of dust explosions.

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

11. Toxicological Information

Acute toxicity

Experimental/calculated data:

| LD50 rat (oral): > 5,000 mg/kg (OECD Guideline 401)

Irritation

Experimental/calculated data:

| Skin corrosion/irritation rabbit: non-irritant (OECD Guideline 404)

| Serious eye damage/irritation rabbit: non-irritant

Other relevant toxicity information

| The product has not been tested. The statements on toxicology have been derived from products of a similar structure and composition.

12. Ecological Information

Ecotoxicity

Assessment of aquatic toxicity:

| Fish toxicity and aquatic toxicity are drastically reduced by rapid irreversible adsorption onto suspended and/or dissolved organic matter. Acute effects on aquatic organisms are entirely due to the cationic charge of the polymer, which is quickly and completely neutralised in natural water courses by irreversible adsorption onto particles, hydrolysis and dissolved organic carbon. The hydrolysis products are not acutely harmful to aquatic organisms.

Toxicity to fish:

| LC50 (96 h) 10 - 100 mg/l (static)

Aquatic invertebrates:

EC50 (48 h) 10 - 100 mg/l

Persistence and degradability

Elimination information:

| Not readily biodegradable (by OECD criteria).

Information on Stability in Water (Hydrolysis):

| $t_{1/2} > 70$ % (28 d) (pH value > 6)

| In contact with water the substance will hydrolyse rapidly.

Bioaccumulation potential

Assessment bioaccumulation potential:

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

Additional information

Other ecotoxicological advice:

The product has not been tested. The statement has been derived from products of a similar structure or composition.

13. Disposal Considerations

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

Contaminated packaging:

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

Uncontaminated packaging can be re-used.

14. Transport Information

Land transport

ADR

Not classified as a dangerous good under transport regulations

RID

Not classified as a dangerous good under transport regulations

Inland waterway transport

ADNR

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

15. Regulatory Information

Regulations of the European union (Labelling) / National legislation/Regulations

Directive 1999/45/EC ('Preparation Directive'):

The product does not require a hazard warning label in accordance with EC Directives.

Safety data sheet available for professional user on request.

Other regulations

16. Other Information

Due to the merger of CIBA and BASF Group all Material Safety Data Sheets have been reassessed on the basis of consolidated information. This may have resulted in changes of the Material Safety Data Sheets. In case you have questions concerning such changes please contact us at the address mentioned in Section I.

Full text of hazard symbols and R-phrases if mentioned as hazardous components in chapter 3:

Xi	Irritant.
36	Irritating to eyes.

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. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.