

# E.C. Safety Data Sheet

in accordance with regulation (EC) 1907/2006



Status: 21.11.2007

Version: 4.3

**KATALYSATOR 20 / CATALYST 20**

Page 1 of 6

## 1. Identification of the Substance/Preparation and of the Company/Undertaking

### KATALYSATOR 20 / CATALYST 20

#### Recommended use(s):

catalyst for polymerization adhesive

Evonik Röhm GmbH

64275 Darmstadt

Germany

+49 6151 18 01

E-mail: produktsicherheit.roehm@degussa.com

Information provided by +49 6151 18 49 72

Emergency Number +49 6151 18 43 42

---

## 2. Hazards Identification

May cause sensitisation by skin contact.

---

## 3. Composition/Information on Ingredients

Dibenzoylperoxide in phthalic acid ester

#### Hazardous Ingredients

Component	CAS Number	Hazard symbol(s) / R-phrases(s)	Content
diisobutyl phthalate	84-69-5	see chapter 8	60,0 - 100,0 %
dibenzoyl peroxide; benzoyl peroxide	94-36-0	E, Xi 2-36-43	3,0 - 7,0 %

---

## 4. First Aid Measures

#### General information

Remove contaminated, soaked clothing.

#### After inhalation

Move subject to fresh air and keep him calm. In case of complaints get medical treatment.

#### After contact with eyes

Flush eyes thoroughly with a large amount of water and consult a physician.

#### After contact with skin

Wash off with water and soap. Consult a physician if irritation persists.

#### After Ingestion

Rinse out mouth and give plenty of water to drink. Obtain medical advice.

---

## 5. Fire-fighting Measures

#### Suitable extinguishing media

foam, dry chemical, carbon dioxide

#### Unsuitable extinguishing media for safety reasons

water

# E.C. Safety Data Sheet

in accordance with regulation (EC) 1907/2006



Status: 21.11.2007

Version: 4.3

**KATALYSATOR 20 / CATALYST 20**

Page 2 of 6

## **Special protective equipment for fire fighting**

Wear self-contained breathing apparatus.

---

## **6. Accidental Release Measures**

### **Precautionary measures related to people**

Take care for adequate ventilation. Use personal protective clothing. Keep away sources of ignition. Use breathing apparatus if exposed to vapours/dust/mist/aerosol.

### **Environmental protective measures**

Prevent product from getting into drains/surface water/groundwater.

### **Methods of cleaning / adsorption**

Larger quantities: Take up mechanically (by pumping). Smaller quantities and/or residues: Contain with absorbent material (e.g. sand, diatomaceous earth, acid absorbent, universal absorbent or sawdust). Dispose of in accordance with regulations.

---

## **7. Handling and Storage**

### **Handling**

#### **Instructions on safe handling**

Do not return residues to the storage containers.

#### **Information on fire and explosion protection**

Keep away from sources of ignition --- No smoking. Take precautionary measures against static discharges. In the event of fire, cool the endangered containers with water.

### **Storage**

#### **Requirements for storage areas and containers**

Store in temperature range between 15 °C and 30 °C. Keep container tightly closed and store in a well ventilated area. Storage: dry.

#### **Advice on storage compatibility**

Do not store together with accelerators.

---

## **8. Exposure Controls/Personal Protection**

### **Occupational exposure controls**

For monitoring procedures refer to for instance "Empfohlene Analysenverfahren für Arbeitsplatzmessungen", Schriftenreihe der Bundesanstalt für Arbeitsschutz and "NIOSH Manual of Analytical Methods", National Institute for Occupational Safety and Health

### **Personal protective equipment**

#### **General protective measures**

Do not inhale vapours. Avoid contact with eyes and skin.

#### **Hygiene measures**

Store work clothing separately. Remove soiled or soaked clothing immediately. Follow the usual good standards of occupational hygiene. Clean skin thoroughly after work; apply skin cream.

#### **Respiratory protection**

Breathing apparatus in case of high concentrations, short term: filter appliance, filter A

#### **Hand protection**

natural rubber gloves, Breakthrough time 480 min ( EN 374 )

In practice, due to variable exposure conditions, this information can only be an aid to orientation for the selection of a suitable chemical protection glove. In particular, this information does not substitute suitability tests by the end user.

# E.C. Safety Data Sheet

in accordance with regulation (EC) 1907/2006



Status: 21.11.2007

Version: 4.3

**KATALYSATOR 20 / CATALYST 20**

Page 3 of 6

## General information

Gloves should be replaced regularly, especially after extended contact with the product. For each work-place a suitable glove type has to be selected.

### Eye protection

tightly fitting goggles

---

## 9. Physical and Chemical Properties

### Appearance

Form :	liquid
Colour :	colourless to yellowish, clear
Odour :	characteristic

### Data relevant to safety

#### Changes in physical state

Solidification Point	not determined
Boiling Point	not determined
Flash point	not applicable
Ignition temperature	not determined
Auto ignition	not spontaneously flammable
Lower explosion limit	not determined
Upper explosion limit	not determined
Vapour pressure	not determined
Density	1,04 g/cm <sup>3</sup> at 20 °C
Relative vapour density (related to air)	not determined
Solubility in water	scarcely soluble
Fat solubility	not determined
pH-value	4 - 5 at 20 °C
n-Octanol/water partition coefficient	log Pow 4,11 ( measured ) (diisobutyl phthalate)
Viscosity (dynamic)	approx. 52 mPa.s at 20 °C ( Brookfield )
Further information	none

---

## 10. Stability and Reactivity

### Thermal decomposition

approx. 60 °C  
SADT (dibenzoyl peroxide)

### Hazardous reactions

Violent decomposition of the peroxide occurs on direct contact with accelerators, e.g. heavy metal salts, tertiary amines, conc. mineral acids and alkali, and reducing agents.

### Hazardous decomposition products

None when used as directed.

---

# E.C. Safety Data Sheet

in accordance with regulation (EC) 1907/2006



Status: 21.11.2007

Version: 4.3

**KATALYSATOR 20 / CATALYST 20**

Page 4 of 6

## 11. Toxicological Information

### Acute Oral Toxicity

Practically non-toxic if swallowed  
LD50 rat > 2.000 mg/kg  
Properties of components in summary.  
Related to substance: product

### Irritant Effect on the Skin

not irritating

### Irritant Effect on the Eyes

Contact with the eyes may cause irritation.

### Sensitisation

guinea pig, Bühler-test sensitising  
Related to substance: dibenzoyl peroxide

### General information

Avoid contact with the skin and eyes and inhalation of the product vapours.

---

## 12. Ecological Information

### Information on elimination (persistence and degradability)

#### Biodegradability

biodegradable  
(analogy)  
Related to substance: product

#### Ecotoxicological effect

##### Fish toxicity

LC50 Cyprinus carpio, 96 h 3 mg/l  
Related to substance: diisobutyl phthalate  
LC50 Poecilia reticulata, 96 h 2,2 mg/l  
Related to substance: dibenzoyl peroxide

##### Daphnia toxicity

EC50 Daphnia magna, DIN 38412 section 11, 24 h tested with emulsifier 7,4 mg/l  
Related to substance: diisobutyl phthalate  
EC50 Daphnia magna, 96 h 3,7 mg/l  
Related to substance: dibenzoyl peroxide

##### Algae toxicity

EC50 Scenedesmus subspicatus, 72 h 2,2 mg/l  
Related to substance: diisobutyl phthalate

### General information

Do not allow to enter soil, waterways or waste water

---

## 13. Disposal considerations

### Product

Waste is hazardous. It must be disposed of in accordance with the regulations after consultation of the competent local authorities and the disposal company in a suitable and licensed facility.

# E.C. Safety Data Sheet

in accordance with regulation (EC) 1907/2006



Status: 21.11.2007

Version: 4.3

**KATALYSATOR 20 / CATALYST 20**

Page 5 of 6

## Uncleaned packaging

Contaminated packaging should be emptied optimally and after appropriate professional cleansing may be taken for reuse. Uncontaminated packaging may be taken for recycling. Packaging that cannot be cleaned should be disposed of professionally.

## Code of waste EWC

07 02 08

waste from the manufacture, formulation, supply and use (MFSU) of plastics, synthetic rubber and man-made fibres - other still bottoms and reaction residues

Always check the given waste codes according to the actual conditions of manufacturing, formulation or use in your facilities.

---

## 14. Transport Information

### Overland transport ADR/RID/GGVSE

UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains DI-ISO-BUTYL PHTHALATE), 9, III

Hazard no. 90

### Inland waterway transport ADNR

UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains DI-ISO-BUTYL PHTHALATE), 9, III

### Shipment by sea IMDG/GGVSee

UN number 3082

Class 9

EmS F-A, S-F

Marine pollutant -

Packaging group III

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(contains DI-ISO-BUTYL PHTHALATE)

Hazardous constituent DI-ISO-BUTYL PHTHALATE

### Air transport ICAO/IATA

UN number 3082

Class 9

Packaging group III

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(contains DI-ISO-BUTYL PHTHALATE)

---

## 15. Regulatory Information

### Labelling in accordance with directive 1999/45/EC

requires labelling

### Hazardous component(s) for labelling

contains dibenzoyl peroxide; benzoyl peroxide

### Hazard symbol(s)

Xi Irritant

### R-phrases(s)

43 May cause sensitisation by skin contact.

# E.C. Safety Data Sheet

in accordance with regulation (EC) 1907/2006



Status: 21.11.2007

Version: 4.3

**KATALYSATOR 20 / CATALYST 20**

Page 6 of 6

## S-phrases(s)

3/7	Keep container tightly closed in a cool place.
14	Keep away from dirt, rust, chemicals, concentrated alkalis, concentrated acids, accelerators (e.g. heavy metal salts and amines).
36/37/39	Wear suitable protective clothing, gloves and eye/face protection.

## Status of Registration

EINECS (EU)	listed or exempted
TSCA (USA)	listed or exempted
DSL (CDN)	listed or exempted
AICS (AUS)	listed or exempted
METI (J)	listed or exempted
ECL (KOR)	listed or exempted

## Occupational restrictions

Note for juveniles.  
Note for pregnant woman and nursing mothers (EC Directive 92/85/EEC).

---

## 16. Other Information

### Miscellaneous information

none

### R-phrases of relevance from Section 3

2	Risk of explosion by shock, friction, fire or other sources of ignition.
36	Irritating to eyes.
43	May cause sensitisation by skin contact.

### References

relevant manuals and publications  
own examinations  
own toxicological and ecotoxicological studies  
toxicological and ecotoxicological studies of other manufacturers  
SIAR  
OECD-SIDS  
RTK public files

---

Places marked by || have been amended from the last version.

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

Date of printing : 03.07.2008