

**SAFETY DATA SHEET**  
(according to EC directive 1907/2006)

Version: 1.3

Update : 12.04.2010  
Date : 28.04.2010

**BREAK-THRU® S 240**

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

Trade name : BREAK-THRU® S 240

Usage : Industrial Use

Information on manufacturer/supplier : Evonik Goldschmidt GmbH  
Goldschmidtstr. 100  
45127 Essen  
Telephone: +4920117301  
Telefax: +492011733000

Information provided by : Product Safety Goldschmidt  
Telephone: (+49) (0) 201/173-2770  
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Telefax: (+49) (0) 2 01/1 73-18 54

**2. HAZARDS IDENTIFICATION**

Harmful  
Dangerous for the environment  
**Risk advice to man and the environment**

Harmful by inhalation and in contact with skin.  
Irritating to eyes.  
Toxic for aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical characterization : Polyether-modified polysiloxane

Hazardous components :

Components	CAS-No.	EINECS	Symbol(s)	R-phrased(s)	Concentration [%]
polyether modified trisiloxane	134180-76-0		<b>Xn, N</b>	20/21-36-51/53	>= 75

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The full text of the R phrases is contained in section 16.  
All existing information on exposure limits is contained in section 8.

**4. FIRST AID MEASURES**

- General advice : Remove contaminated clothing.
- After inhalation : Ensure supply of fresh air.  
In the event of symptoms take medical treatment.
- After contact with skin : In case of contact with skin wash off with soap and water.  
Consult a doctor if skin irritation persists.
- After contact with eyes : In case of contact with eyes rinse thoroughly with plenty of water and  
seek medical advice
- After ingestion : Seek medical advice immediately.

**5. FIRE-FIGHTING MEASURES**

- Suitable extinguishing media : foam, carbon dioxide, dry powder, water spray.
- Extinguishing media which must not be used for safety reasons : not applicable
- Special hazards from the substance itself, its combustion products or from its vapours : In the event of fire the following can be released:  
- Carbon monoxide, carbon dioxide, silicon dioxide
- Special protective equipment for firefighters : Use self-contained breathing apparatus
- Further information : Collect contaminated firefighting water separately, must not be discharged into the drains.

**6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions : Use personal protective equipment.
- Environmental precautions : Do not allow to enter drains or waterways  
Do not discharge into the subsoil/soil.

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Methods for cleaning up/taking up : Take up with absorbent material (eg sand, kieselguhr, universal binder)  
Dispose of absorbed material in accordance with the regulations.

**7. HANDLING AND STORAGE****Handling**

Advice on safe handling : formation of aerosols or vapors during processing and application should be prevented.  
Wear respiratory protection when spraying.

Advice on protection against fire and explosion : No special measures required.

**Storage**

Further information : Keep container tightly closed  
Protect from freezing.

German storage class : 10

Storage Class (Spain): : MIE APQ-7 (as per "REAL DECRETO 379/2001")

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Personal protection equipment**

General protective measures : Avoid contact with eyes and skin  
Do not inhale aerosols

Hygiene measures : Do not eat, drink or smoke when working.  
Remove soiled or soaked clothing immediately.  
Wash hands before breaks and after work.  
Use barrier skin cream.  
Keep away from foodstuffs and beverages.

Respiratory protection : in case of formation of vapours/aerosols:  
Short term: filter apparatus, Filter A-P2

Hand protection : gloves made of nitril (NBR)  
gloves made of butyl (IIR)

Eye protection : goggles, or face shield if necessary

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a protective ointment is recommended.**9. PHYSICAL AND CHEMICAL PROPERTIES**

Form : Liquid  
Colour : light yellow  
Odour : characteristic

Melting temperature : not measured

Boiling temperature : not measured

Flash point : 102 °C  
Method: DIN EN 22719 (DIN 51758)

Ignition temperature : not measured

Lower explosion limit : not measured

Upper explosion limit : not measured

Vapour pressure : not measured

Density : approx. 1,01 g/cm<sup>3</sup>  
at 25 °C

Water solubility : soluble

pH : 6 - 8  
at 40 g/l water  
at 25 °C

Viscosity, dynamic : 40 - 90 mPa.s  
at 25 °C  
Method: DIN 53019

**10. STABILITY AND REACTIVITY**

Thermal decomposition : Not measured

Hazardous reactions : No hazardous reactions with proper storage and handling.

Hazardous decomposition products : None with proper storage and handling.

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- Acute oral toxicity : LD50 Species: rat  
Dose: 3.200 mg/kg
- Acute inhalation toxicity : LC50 aero. Species: rat  
Dose: 1,08 mg/l  
Exposure time: 4 h  
Method: OECD 403  
Source: Untersuchungsbericht/Evonik Goldschmidt GmbH
- Acute toxicity estimate  
Dose: 14,67 mg/l  
Method: Calculation method
- Acute dermal toxicity : LD50 Species: rabbit  
Dose: 1.550 mg/kg
- LD50 Species: rat  
Dose: > 2.000 mg/kg
- Skin irritation : slight irritant effect - does not require labelling
- Eye irritation : Species: rabbit  
strong irritant
- Sensitization : Species: Guinea pig  
Classification: Did not cause sensitization on laboratory animals.  
non-sensitizing
- Remarks : Harmful by inhalation and in contact with skin.  
Irritant to eyes.  
The toxicological data refer to the undiluted 100 % product.  
Due to the composition of the product it cannot be excluded:  
Risk of serious damage to eyes  
Irritant to skin

**12. ECOLOGICAL INFORMATION****Ecotoxicity effects**

- Toxicity to fish : LC50 Species: rainbow trout  
Dose: 2,1 mg/l
- Toxicity to daphniae : EC50 Species: Daphnia magna  
Dose: 1,1 mg/l

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Toxicity to algae : EC50 Species: Scenedesmus subspicatus  
Dose: 28,2 mg/l  
refer to biomass

EC50 Species: Scenedesmus subspicatus  
Dose: 152,2 mg/l  
growth rate

**Further ecological information**

Remarks : The product is considered to be a water pollutant (German law).  
Do not discharge product unmonitored into the environment.  
The ecotoxicological data refer to the undiluted 100 % product.  
The product does not cause essential disturbances of ecological  
processes and equilibriums, when used in the recommended  
concentrations and ways of applications.

**13. DISPOSAL CONSIDERATIONS**

Product : In accordance with local authority regulations, take to special waste  
incineration plant

Contaminated packaging : If empty contaminated containers are recycled or disposed of, the  
receiver must be informed about possible hazards.

**14. TRANSPORT INFORMATION**

**Land transport**

ADR:

Class : 9  
Packaging group : III  
Orange plate : Hazard no.: 90  
Substance number: 3082  
Description of the goods : 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE,  
LIQUID, N.O.S.  
Hazard release : Polyethersiloxane  
Label : 9 miscellaneous substances and articles

RID:

Class : 9  
Packaging group : III  
Orange plate : Hazard no.: 90  
Substance number: 3082  
Description of the goods : 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE,  
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Hazard release : Polyethersiloxane  
Label : 9 miscellaneous substances and articles

**Inland navigation transport**

ADNR:  
Class : 9  
Item : M6  
Description of the goods : 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE,  
LIQUID, N.O.S.  
Hazard release : Polyethersiloxane  
Label : 9 miscellaneous dangerous goods

**Sea transport**

IMDG:  
Class : 9  
Packaging group : III UN-No: 3082  
EmS : F-A S-F  
Correct technical name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.  
Hazard release : Polyethersiloxane  
Label : 9 miscellaneous dangerous goods  
Marine pollutant

**Air transport**

ICAO/IATA:  
Class : 9  
Packaging group : III UN-No: 3082  
Correct technical name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.  
Hazard release : Polyethersiloxane  
Label : 9 Miscellaneous dangerous goods

**15. REGULATORY INFORMATION**

Labelling in accordance with GefStoffV/EC : The product is classified and labelled in accordance with EC directives/German regulations on dangerous substances.

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Hazard symbol(s) :



**Xn**

Harmful



**N**

Dangerous for the environment

Hazardous component(s) for labelling :

polyether modified trisiloxane

R-phrases :

20/21 Harmful by inhalation and in contact with skin.  
36 Irritating to eyes.  
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases :

24 Avoid contact with skin.  
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.  
51 Use only in well-ventilated areas.  
61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

**National legislation / regulations**

TA Luft (Germany) :

Class: Paragraph 5.2.5 (no class)

Observe local authority regulations corresponding to the german incident regulation (StörfallV).

: 9b

Water contaminating class :

2 (Classification acc. to German law)

Risk classification according to BetrSichV (Germany) :

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Other regulations :

ZH 1/118 "Working with health hazard substances (for the workers) (M 050)"  
ZH 1/229 "Data Sheet: Irritating substances / corrosive substances (M 004)"



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**16. OTHER INFORMATION**

none

**R-phrases of components from chapter 3 - Full wording**

20/21	Harmful by inhalation and in contact with skin.
36	Irritating to eyes.
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

This information is based on our present state of knowledge. It should not therefore be construed as guaranteeing specific properties of the products described or their suitability for a particular application. Changes compared to the previous version are marked before the section number!