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
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Information provided by : Product Safety Goldschmidt
Telephone: (+49) (0) 201/173-2770
Telefax: (+49) (0) 201/173-1994

e-mail address : productsafety.goldschmidt@evonik.com

Emergency information : Telephone: (+49) (0) 2 01/173-01
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

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>EINECS</th>
<th>Symbol(s)</th>
<th>R-phrase(s)</th>
<th>Concentration [%]</th>
</tr>
</thead>
<tbody>
<tr>
<td>polyether modified trisiloxane</td>
<td>134180-76-0</td>
<td></td>
<td>Xn, N</td>
<td>20/21-36-51/53</td>
<td>&gt;= 75</td>
</tr>
</tbody>
</table>
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.
Methods for cleaning up/taking up: Take up with absorbent material (e.g., sand, kieselguhr, universal binder) and 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.


Hand protection: Gloves made of nitril (NBR) or butyl (IIR).

Eye protection: Goggles, or face shield if necessary.
SAFETY DATA SHEET
(according to EC directive 1907/2006)

Update : 12.04.2010
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Skin and body protection : protective clothing
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/cm³
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.
11. TOXICOLOGICAL INFORMATION

| 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 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 |
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,  
LIQUID, N.O.S.
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.
SAFE DATA SHEET
(according to EC directive 1907/2006)

Version: 1.3
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Hazard symbol(s): Xn N
Harmful Dangerous for the environment

Hazardous component(s) for labelling: polyether modified trisiloxane

R-phrase(s):
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-phrase(s):
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).

Water contaminating class: 2 (Classification acc. to German law)
Risk classification according to BetrSichV (Germany): ---

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)"
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!