

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

Version: 2.2

Update : 07.05.2012  
Date : 19.07.2012**PHOENIX****1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

Trade name : BREAK THRU S 233

Relevant identified uses of the substance or mixture : Industrial Use

Details of the supplier of the safety data sheet : Evonik Industries AG  
Consumer Specialties  
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Information provided by : Product Safety Consumer Specialties  
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**2. HAZARDS IDENTIFICATION****Classification of the substance or mixture****Classification according to the Regulation (EC) No 1272/2008 (GHS)**

Acute toxicity, Category 4, Inhalation, H332  
Eye irritation, Category 2, H319

**Classification according to directives 1999/45/EC and 67/548/EEC**

Harmful by inhalation.  
Irritating to eyes.

**Label elements according to Regulation (EC) No 1272/2008 (GHS)**

Symbol(s) :



Signal Word : Warning

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

Version: 2.2

Update : 07.05.2012  
Date : 19.07.2012

**PHOENIX**

Hazard Statements : H319: Causes serious eye irritation.  
H332: Harmful if inhaled.

Precautionary Statements : P261: Avoid breathing dust/fume/gas/mist/vapours/spray.  
P271: Use only outdoors or in a well-ventilated area.  
P280a: Wear protective gloves and eye/face protection.  
P312: Call a POISON CENTER or doctor/physician if you feel unwell.  
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P341: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

Hazardous component(s) for labelling : polyether modified trisiloxane

**3. COMPOSITION/INFORMATION** **PHOENIX**

Chemical characterization : Polyether-modified polysiloxane

**Hazardous components according to the Regulation (EC) No 1272/2008 (GHS)**

Chemical Name	CAS / EC / Registration No.	Concentration [%]	GHS product identifier
polyether modified trisiloxane	134180-76-0 603-798-4	>= 75 - <= 100	Acute Tox., 4, Inhalation, H332 Eye Irrit., 2, H319

**Hazardous components according to directives 1999/45/EC and 67/548/EEC**

Chemical Name	CAS / EC / Registration No.	Symbol(s)	R-phrase(s)	Concentration [%]
polyether modified trisiloxane	134180-76-0 603-798-4	Xn	20-36	>= 75 - <= 100

The full text of the risk phrases and hazard statements is contained in section 16.  
All existing information on exposure limits is contained in section 8.

**4. FIRST AID MEASURES**

**Description of first aid measures**

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

Version: 2.2

Update : 07.05.2012  
Date : 19.07.2012**PHOENIX**

- General advice : Remove soiled or soaked clothing immediately
- After inhalation : If inhaled remove from side of exposure to fresh air, seek medical advice.
- After contact with skin : In case of contact with skin wash off with soap and water. In the event of symptoms seek medical advice.
- After contact with eyes : In case of contact with eyes rinse thoroughly with plenty of water. If symptoms persist, seek medical advice.
- After ingestion : Thoroughly clean the mouth with water  
In the event of symptoms seek medical advice.

**The most important acute and delayed symptoms and effects**

- Symptoms : Eye irritation

**Indication of any immediate medical attention and special treatment needed**

- Treatment : Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**

- Suitable extinguishing media : foam, carbon dioxide, dry powder, water spray.
- Unsuitable extinguishing media : Full water jet
- Special hazards arising from the substance or mixture : In the event of fire the following can be released:  
- Carbon monoxide, carbon dioxide, silicon dioxide
- Advice for fire-fighters : Use self-contained breathing apparatus  
Do not inhale explosion and/or combustion gases

**6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Ensure adequate ventilation.
- Environmental precautions : Do not allow to enter drains or waterways  
Do not discharge into the subsoil/soil.

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

Version: 2.2

Update : 07.05.2012  
Date : 19.07.2012

**PHOENIX**

- Methods and material for containment and cleaning up : Take up with absorbent material (eg sand, kieselguhr, universal binder)  
Dispose of absorbed material in accordance with the regulations.
- Reference to other sections : For further information on exposure monitoring and disposal see sections 8 and 13.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

- Advice on safe handling : formation of aerosols or vapors during processing and application should be prevented.  
Wear respiratory protection when spraying.
- General protective measures : Avoid contact with eyes and skin  
Do not inhale gases/vapours/aerosols.
- Hygiene measures : Do not eat, drink or smoke when working.  
Wash hands before breaks and after work.  
Remove soiled or soaked clothing immediately.

### Conditions for safe storage, including any incompatibilities

- Advice on protection against fire and explosion : Keep away from sources of ignition - no smoking  
Take precautionary measures against electrostatic loading.  
Cool endangered containers by water spray  
Vapours may form explosive mixtures with air
- Further information : Keep container tightly closed in a well-ventilated place  
Protect from freezing.
- German storage class : 10
- Storage Class (Spain): : MIE APQ-7 (as per "REAL DECRETO 379/2001")
- Specific end use(s) : No further recommendations.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

- Contains no substances with occupational exposure limit values (Germany).
- DNEL/DMEL values : No DNEL/DMEL values on file.

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

Version: 2.2

Update : 07.05.2012  
Date : 19.07.2012

**PHOENIX**

PNEC values : No PNEC values on file.

**Personal protective equipment / exposure controls**

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

Hand protection : Examples of suitable gloves are those made by the company Kächele-Cama Latex GmbH, Am Kreuzacker 9, D-36124 Eichenzell, e-mail vertrieb@kcl.de, with subsequent specification (test according to EN374); specific workplace conditions must be separately taken into account. These recommendations apply only to the product mentioned in the material data safety sheet that we supply and the purpose that we indicate.

gloves made of nitril (NBR)  
Minimum break-through time of the glove:  
480 min

**PHOENIX**

gloves made of natural latex  
Minimum break-through time of the glove:  
480 min  
Glove strength: 0,5 mm

gloves made of chloroprene (CR, e.g. Neoprene)  
Minimum break-through time of the glove:  
480 min  
Glove strength: 0,65 mm

gloves made of butyl (IIR)  
Minimum break-through time of the glove:  
480 min  
Glove strength: 0,7 mm

Eye protection : safety glasses

Skin and body protection : protective clothing

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Form : Liquid  
Colour : colourless, clear  
Odour : slight, typical

Smell threshold : not measured

Melting temperature : not measured

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

Version: 2.2

Update : 07.05.2012

Date : 19.07.2012

**PHOENIX**

Boiling temperature	:	not measured
Flash point	:	> 65 °C Method: DIN EN 22719 (DIN 51758)
Evaporation rate	:	not measured
Ignition temperature	:	not measured
Autoignition temperature	:	not measured
Thermal decomposition	:	not measured
Lower explosion limit	:	not measured
Upper explosion limit	:	not measured
Vapour pressure	:	not measured
Density	:	1,03 - 1,05 g/cm <sup>3</sup> at 25 °C Method: DIN 51757
Relative vapour density	:	not measured
Water solubility	:	soluble
pH	:	5,5 - 7,5 at 40 g/l water at 20 °C
Partition coefficient (n-octanol/water)	:	not measured
Viscosity, dynamic	:	60 - 140 mPa.s at 25 °C
Explosive properties	:	not measured
Oxidizing properties	:	not measured
Metal corrosion	:	not measured

**10. STABILITY AND REACTIVITY**

Reactivity : see section "Possibility of hazardous reactions"

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

Version: 2.2

Update : 07.05.2012  
Date : 19.07.2012**PHOENIX**

- Chemical stability : The product is stable under normal conditions.
- Possibility of hazardous reactions : No hazardous reactions with proper storage and handling.
- Conditions to avoid : Unknown
- Incompatible materials : Unknown
- Hazardous decomposition products : None with proper storage and handling.

**11. TOXICOLOGICAL INFORMATION**

- Acute oral toxicity : LD50  
Species: rat  
Dose: > 2.000 mg/kg  
Method: OECD 401
- Acute inhalation toxicity : LC50  
Species: rat  
Dose: 1,08 mg/l  
Exposure time: 4 h  
Test atmosphere: Dust/Mist  
Method: OECD 403  
By analogy with a product of similar composition
- Acute dermal toxicity : LD50  
Species: rat  
Dose: > 2.000 mg/kg  
Method: OECD 402
- Skin irritation : Species: rabbit  
slight irritant effect - does not require labelling  
Method: OECD 404
- Eye irritation : Species: rabbit  
moderate irritant  
Method: OECD 405
- Sensitization : no data available
- Risk of aspiration toxicity : No aspiration toxicity classification
- Repeated dose toxicity : no data available
- Judgement STOT - single exposition : no data available

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

Version: 2.2

Update : 07.05.2012  
Date : 19.07.2012**PHOENIX**Judgement STOT -  
repeated exposure : no data available**CMR assessment**

Carcinogenicity : no data available

Mutagenicity : no data available

Teratogenicity : no data available

Toxicity to reproduction : no data available

Remarks : Harmful by inhalation.  
Irritant to eyes.  
The substance has no mutagenic activity (Ames Test)**12. ECOLOGICAL INFORMATION****Elimination information (persistence and degradability)**Biological degradability : aerobic  
> 60 %  
Testing period: 28 d  
readily degradable  
Method: OECD 301 F  
Source: Untersuchungsbericht/Evonik Goldschmidt GmbH**Ecotoxicity effects**Toxicity to fish : LC50  
Species: sunfish  
Dose: 15 mg/l 96 hr  
Exposure time: 96 hToxicity to daphniae : EC50  
Species: Daphnia magna  
Dose: 177 mg/l 48 hr  
Exposure time: 48 h**Further ecological information**Remarks : The product is considered to be a weak water pollutant  
(German law).  
Do not discharge product unmonitored into the environment.



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

Version: 2.2

Update : 07.05.2012  
Date : 19.07.2012**PHOENIX****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:

Not regulated

RID:

Not regulated

**Inland navigation transport**

ADNR:

Not regulated

**Sea transport**

IMDG:

Not regulated

**Air transport**

ICAO/IATA:

Not regulated

**15. REGULATORY INFORMATION****National legislation / regulations**

Comply with national and local legal regulations.

Germany

TA Luft (Germany) : Class: Paragraph 5.2.5 (no class)

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

Version: 2.2

Update : 07.05.2012  
Date : 19.07.2012

**PHOENIX**

- Observe local authority regulations corresponding to the german incident regulation (StörfallV). : ---
- Water contaminating class : 1 (Classification acc. to German law)
- Risk classification according to BetrSichV (Germany) : ---
- Other regulations : Special local regulations must be adhered to when using products containing irritating or corrosive substances. BG Info Sheet M 050 "Activities Involving Hazardous Substances"  
Precautions to be observed for storage of hazardous substances: TRGS 510 "Storage of Hazardous Substances in Movable Containers".
- Chemical safety assessment : No chemical safety assessment was carried out for this product.

## 16. OTHER INFORMATION

Comply with national laws regulating employee instruction.

### R-phrases and H-phrases of components from chapter 3 - Full wording

- 20 : Harmful by inhalation.  
36 : Irritating to eyes.
- H319 : Causes serious eye irritation.  
H332 : Harmful if inhaled.

#### Glossary

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ADNR	European agreement concerning the international carriage of dangerous goods by inland waterways (ADN)
BCF	Bioconcentration factor
BetrSchV	German Ordinance on Industrial Safety and Health
CMR	carcinogenic-mutagenic-toxic for reproduction
DNEL	Derived no effect level
GLP	Good Laboratory Practice
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
LOAEL	Lowest observed adverse effect level
LOEL	Lowest observed effect level
NOAEI	No observed adverse effect level
OECD	Organisation for Economic Cooperation and Development
PBT	Persistent, bioaccumulative, toxic

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

Version: 2.2

Update : 07.05.2012  
Date : 19.07.2012**PHOENIX**

PNEC	Predicted no effect concentration
RID	Convention concerning International Carriage by Rail
TA	Technical Instructions
TRGS	Technical Rules for Hazardous Substances
VCI	German chemical industry association
vPvB	very persistent, very bioaccumulative
VOC	volatile organic compounds
VwVwS	German Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes
WGK	Water Hazard Class
EC50	half maximal effective concentration
STOT	Specific Target Organ Toxicity
OEL	Occupational Exposure Limit
PEC	Predicted effect concentration
NOEC	no observed effect concentration
NOEL	no observed effect level
ISO	International Organization For Standardization
DIN	German Institute for Standardization

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!