

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## BREAK-THRU® S 240

Version 4.2 / REG\_EU  
Revision Date: 09.06.2021

Specification: 135237  
Material no.:

Date of first issue: 09.06.2021  
Print Date: 10.06.2021

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name : BREAK-THRU® S 240  
Registration number : if available listed in Chapter. 3

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub-stance/Mixture : Additive for crop protectant sprays

#### 1.3 Details of the supplier of the safety data sheet

Company : AlzChem Trostberg GmbH  
Dr.-Albert-Frank-Str. 32  
83308 Trostberg, Germany  
Telephone : +49 8621 86-3351  
E-mail address of person responsible for the SDS : alz-pst@alzchem.com

#### 1.4 Emergency telephone number

Emergency telephone number : +49 8621 86-2776  
AlzChem Trostberg GmbH, Fire Brigade

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4 H312: Harmful in contact with skin.  
Acute toxicity, Category 4 H332: Harmful if inhaled.  
Eye irritation, Category 2 H319: Causes serious eye irritation.  
Long-term (chronic) aquatic hazard, Category 2 H411: Toxic to aquatic life with long lasting effects.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :

Signal word : Warning

Hazard statements : H312 Harmful in contact with skin.  
H332 Harmful if inhaled.

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H319 Causes serious eye irritation.  
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**

P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Response:**

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P312 Call a POISON CENTER/ doctor if you feel unwell.  
P391 Collect spillage.

### 2.3 Other hazards

A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Oxirane, methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]disiloxanyl]propyl] ether	134180-76-0	Acute Tox. 4; H312 Acute Tox. 4; H332 Eye Irrit. 2; H319 Aquatic Chronic 2; H411	50 - < 100

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General advice : Seek medical advice in case of symptoms caused by eye or skin contact, inhalation or swallowing.  
Remove contaminated or saturated clothing.
- If inhaled : Move to fresh air.
- In case of skin contact : Wash off with plenty of water and soap.
- In case of eye contact : Open the eyes and rinse thoroughly with plenty of water.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.  
Do NOT induce vomiting.

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### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms : To the best of our knowledge, experiences about acute systemic health effects in human beings are not available.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Symptomatic treatment.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Water spray, foam, CO<sub>2</sub>, dry powder.

Unsuitable extinguishing media : high volume water jet

### 5.2 Special hazards arising from the substance or mixture

Hazardous combustion products : Carbon oxides  
silica

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the case of fire, wear respiratory protective equipment independent of surrounding air and chemical protective suit.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Wear personal protective equipment; see section 8.  
Ensure adequate ventilation.

### 6.2 Environmental precautions

Environmental precautions : Product or extinguishing water with product must not be allowed to enter soil, sewers or natural bodies of water.

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Absorb with liquid-binding material, e. g.: diatomaceous earth, sand, universal binder  
Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

|| For disposal considerations see section 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

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- Advice on safe handling : Provide sufficient ventilation and exhaust at the workplace. During handling, the formation of aerosols / vapors has to be avoided.  
Use respiratory protection during spraying.
- Advice on protection against fire and explosion : No special precautions required.
- Hygiene measures : Do not inhale vapours / aerosols. Avoid contact with skin, eyes and clothing. Take off clothing and shoes contaminated with product. Clean before reuse. Wash hands before breaks and immediately after handling the product. Do not eat, drink or smoke during use. Keep away from food, drink and animal feedingstuffs.

### 7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Keep tightly closed.

### 7.3 Specific end use(s)

- Specific use(s) : We are unaware of any specific end uses which go beyond the data reported in Section 1.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Oxirane, methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]disiloxanyl]propyl] ether	DNEL not necessary (polymer)			

#### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Oxirane, methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]disiloxanyl]propyl] ether	PNEC not necessary (polymer)	

### 8.2 Exposure controls

#### Personal protective equipment

- Eye protection : Safety glasses

Hand protection

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Material : Nitrile rubber, Recommendation: Camatril 730  
Break through time : > 480 min  
Glove thickness : 0,4 mm  
Directive : DIN EN 374  
Manufacturer : Kächele-Cama Latex GmbH (KCL), Germany

Material : Chloroprene, Recommendation: Camapren 722  
Break through time : > 480 min  
Glove thickness : 0,6 mm  
Directive : DIN EN 374  
Manufacturer : Kächele-Cama Latex GmbH (KCL), Germany

Skin and body protection : Protective clothing

Respiratory protection : not required under normal use  
Use suitable respiratory protection where aerosols/vapours  
are generated.  
Suitable filter: A-P2, code colour brown-white

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state : liquid

Colour : light yellow

Odour : characteristic

Melting point/range : < 0 °C

Boiling point/boiling range : > 200 °C

Upper explosion limit / upper flammability limit : not determined

Lower explosion limit / Lower flammability limit : not determined

Flash point : 102 °C  
Method: DIN 51758

Auto-ignition temperature : not determined

pH : 6 - 8 (25 °C)  
Concentration: 40 g/l  
(as aqueous solution)

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

Solubility(ies)  
Water solubility : soluble

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Density : 1,01 g/cm<sup>3</sup> (20 °C)

### 9.2 Other information

Oxidizing properties : not applicable

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

See section 10.3

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reactions have been known to occur in conjunction with the proper use to the product.

### 10.4 Conditions to avoid

Conditions to avoid : frost.  
Keep away from heat.

### 10.5 Incompatible materials

Materials to avoid : None known.

### 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions.  
see section 5

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## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

##### Product:

Acute inhalation toxicity : Assessment: Harmful if inhaled.

Acute dermal toxicity : Assessment: Harmful in contact with skin.

##### Components:

#### **Oxirane, methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]disiloxanyl]propyl] ether:**

Acute oral toxicity : LD50 (rat): 3200 mg/kg  
Remarks: literature

Acute inhalation toxicity : LC50 (rat): 1,08 mg/l  
Remarks: literature

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Acute dermal toxicity : LD50 (Rabbit): 1550 mg/kg  
Remarks: literature

### Skin corrosion/irritation

#### Components:

**Oxirane, methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]disiloxanyl]propyl] ether:**

Result : Not irritating.  
Remarks : literature

### Serious eye damage/eye irritation

#### Product:

Assessment : Causes serious eye irritation.

#### Components:

**Oxirane, methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]disiloxanyl]propyl] ether:**

Species : Rabbit  
Assessment : Causes serious eye irritation.  
Remarks : literature

### Respiratory or skin sensitisation

#### Components:

**Oxirane, methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]disiloxanyl]propyl] ether:**

Species : Guinea pig  
Result : not sensitizing  
Remarks : literature

### Germ cell mutagenicity

#### Components:

**Oxirane, methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]disiloxanyl]propyl] ether:**

Germ cell mutagenicity- Assessment : In vitro tests did not show mutagenic effects  
Remarks: Literature, IUCLID

### Carcinogenicity

#### Components:

**Oxirane, methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]disiloxanyl]propyl] ether:**

Carcinogenicity - Assessment : no data available

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Remarks: Literature, IUCLID

### Reproductive toxicity

#### Components:

**Oxirane, methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]disiloxanyl]propyl] ether:**

Reproductive toxicity - Assessment : no data available  
Remarks: Literature, IUCLID

### STOT - single exposure

#### Components:

**Oxirane, methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]disiloxanyl]propyl] ether:**

Remarks : no data available

### STOT - repeated exposure

#### Components:

**Oxirane, methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]disiloxanyl]propyl] ether:**

Remarks : no data available

### Repeated dose toxicity

#### Components:

**Oxirane, methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]disiloxanyl]propyl] ether:**

Species : Rat  
NOAEL : 200 mg/kg  
Remarks : literature

## 11.2 Information on other hazards

### Further information

#### Product:

Remarks : No additional toxicological data are available.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

### Ecotoxicology Assessment



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Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

### Components:

**Oxirane, methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]disiloxanyl]propyl] ether:**

Toxicity to fish : (Oncorhynchus mykiss (rainbow trout)): 2,1 mg/l  
Exposure time: 96 h  
Remarks: literature

Toxicity to daphnia and other aquatic invertebrates : (Daphnia magna (Water flea)): 1,1 mg/l  
Exposure time: 48 h  
Remarks: literature

Toxicity to algae/aquatic plants : Remarks: no data available

### 12.2 Persistence and degradability

#### Components:

**Oxirane, methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]disiloxanyl]propyl] ether:**

Biodegradability : Remarks: no data available

### 12.3 Bioaccumulative potential

#### Components:

**Oxirane, methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]disiloxanyl]propyl] ether:**

Bioaccumulation : Remarks: no data available

### 12.4 Mobility in soil

no data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

### 12.6 Endocrine disrupting properties

no data available

### 12.7 Other adverse effects

#### Product:

Additional ecological information : Prevent uncontrolled release in the environment. No further ecotoxicological data are available.

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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

- Product : Must be brought to an adequate waste treatment facility, in conformity with applicable waste disposal regulations.
- Contaminated packaging : Packaging, that can not be reused after cleaning must be disposed or recycled in accordance with all federal, national and local regulations.

### SECTION 14: Transport information

#### 14.1 UN number or ID number

- ADR : UN 3082
- RID : UN 3082
- IMDG : UN 3082
- IATA : UN 3082

#### 14.2 UN proper shipping name

- ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(polyether siloxane)
- RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(polyether siloxane)
- IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(polyether siloxane)
- IATA : Environmentally hazardous substance, liquid, n.o.s.  
(polyether siloxane)

#### 14.3 Transport hazard class(es)

- ADR : 9
- RID : 9
- IMDG : 9
- IATA : 9

#### 14.4 Packing group

- ADR  
Packing group : III  
Classification Code : M6  
Hazard Identification Number : 90  
Labels : 9
- RID  
Packing group : III

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Classification Code : M6  
Hazard Identification Number : 90  
Labels : 9

### IMDG

Packing group : III  
Labels : 9  
EmS Code : F-A, S-F

### IATA (Cargo)

Packing instruction (cargo aircraft) : 964  
Packing instruction (LQ) : Y964  
Packing group : III  
Labels : Miscellaneous  
Remarks : ERG-Code 9L

### IATA (Passenger)

Packing instruction (passenger aircraft) : 964  
Packing instruction (LQ) : Y964  
Packing group : III  
Labels : Miscellaneous  
Remarks : ERG-Code 9L

## 14.5 Environmental hazards

### ADR

Environmentally hazardous : yes

### RID

Environmentally hazardous : yes

### IMDG

Marine pollutant : yes

### IATA (Passenger)

Environmentally hazardous : yes

### IATA (Cargo)

Environmentally hazardous : yes

## 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

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### 15.2 Chemical safety assessment

No substance safety assessment is required for this product.

## SECTION 16: Other information

### Full text of H-Statements

H312	:	Harmful in contact with skin.
H319	:	Causes serious eye irritation.
H332	:	Harmful if inhaled.
H411	:	Toxic to aquatic life with long lasting effects.

### Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Eye Irrit.	:	Eye irritation

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not

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to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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