

Automotive Brake Fluid

BRAKE FLUID DOT 4 is a high-performance poly glycol based brake fluid specially designed for use in disc, drum & Anti-locking Brake Systems (ABS) of any commercial vehicles, passenger cars and motorcycles operating under moderate to severe conditions and requiring a DOT 4 type of fluid.

BRAKE FLUID DOT 4 should never be used in place of or mixed with silicone based brake fluids (DOT 5) nor should be used where DOT 5.1 fluids are prescribed.

BRAKE FLUID DOT 4 is based on polyethylene glycol base fluid in combination with an unique additive package to ensure the following properties:

- Superior oxidative stability resists oxidation at high temperatures encountered in disk braking systems
- Superior high temperature stability and low temperature fluidity ensure trouble free operation
- Effective corrosion inhibitors provide long term corrosion protection to the metallic components of the brake systems
- Provides lubricity and system protection
- Compatible with all seals and metals used in conventional braking systems requiring polyethylene glycol brake fluids

BRAKE FLUID DOT 4 meets the following performance criteria:

FMVSS 116 DOT 4

SAE J 1703

ISO 4925

Typical Analysis

| Properties | Unit | Method | | Typical Value |
|---|-----------------|-------------|----------|---------------------|
| | | | | |
| Colour | | Visual | | Colourless to Amber |
| Density @20°C | kg/m3 | ASTM D4052 | | 1043 |
| Kin. Viscosity @-40°C | mm2/s | FMVSS 116 | | 1250 |
| Kin. Viscosity @100°C | mm2/s | FMVSS 116 | | 2.3 |
| Equilibrium Reflex Boiling Point (ERBP) | °C | FMVSS 116 | | 265 |
| Wet Equilibrium Reflex Boiling Point (WBP) | °C | FMVSS 116 | | 161 |
| pH Value | | | | 10 |
| Flash Point COC | °C | DIN 51354-2 | | 125 |
| Date Issued: 10-6-2021 | Supersedes: 17- | 10-2016 | Revision | Nr.: 01 |



















Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 5/27/2015 Revision date: 8/7/2020 Supersedes version of: 2/14/2019 Version: 14.0

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

1.1. Product identifier

Product form : Mixture

Product name : 73920 - BRAKE FLUID DOT 4
UFI : ECQK-D61P-V00H-WNRG

Product code : 73920

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

1.2.1. Relevant identified uses

Intended for general public

Main use category : Consumer use

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

North Sea Lubricants B.V. B.V.

Ampèrestraat 5

NL- 3846AN Harderwijk

The Netherlands

T+31 651345369

support@northsealubricants.com - www.northsealubricants.com

1.4. Emergency telephone number

Emergency number : +31 (0)786527652

Monday to Friday: 09:00 - 16:00 (CET)

H361

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Reproductive toxicity, Category 2

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Suspected of damaging fertility or the unborn child.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS08

Signal word (CLP) : Warning

Contains : Tris[2-[2-(2-methoxyethoxy]ethoxy]ethoxy]ethoy] orthoborate Hazard statements (CLP) : H361 - Suspected of damaging the unborn child..

Precautionary statements (CLP) : P102 - Keep out of reach of children.

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves, protective clothing, eye protection, face protection.

P308+P313 - IF exposed or concerned: Get medical advice/attention.

P405 - Store locked up.

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2.3. Other hazards

Other hazards which do not result in classification : Attacks some forms of plastics, rubber, and coatings.

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--|--|--------|---|
| Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate | CAS-No.: 30989-05-0 EC-No.: 250-418-4 REACH-no: 2119462824-33- XXXX | ≥ 25 | Repr. 2, H361d |
| Butyl Triglycol | CAS-No.: 143-22-6 EC-No.: 205-592-6 EC Index-No.: 603-183-00-0 REACH-no: 2119475107-38- XXXX | 1 – 10 | Eye Dam. 1, H318 |
| Butyl Polyglycol | CAS-No.: 9004-77-7 EC-No.: 500-012-0 REACH-no: 2119475115-41- XXXX | < 10 | Eye Irrit. 2, H319 |
| 2-(2-methoxyethoxy)ethanol substance with national workplace exposure limit(s) (BE, DK, ES, FR, GB, NL, PL); substance with a Community workplace exposure limit | CAS-No.: 111-77-3 EC-No.: 203-906-6 EC Index-No.: 603-107-00-6 REACH-no: 01-2119475100- 52 | < 5 | Repr. 2, H361d |

| Specific concentration limits: | | | | |
|--------------------------------|--|---|--|--|
| Name | Product identifier | Specific concentration limits | | |
| Butyl Triglycol | CAS-No.: 143-22-6 EC-No.: 205-592-6 EC Index-No.: 603-183-00-0 REACH-no: 2119475107-38- XXXX | (20 ≤C < 30) Eye Irrit. 2, H319 (30 ≤C < 100) Eye Dam. 1, H318 | | |
| Butyl Polyglycol | CAS-No.: 9004-77-7 EC-No.: 500-012-0 REACH-no: 2119475115-41- XXXX | (20 ≤C < 100) Eye Irrit. 2, H319 | | |

Full text of H- and EUH-statements: see section 16

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SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : IF exposed or concerned: Get medical advice/attention. Never give anything by mouth to an

unconscious person.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : After contact with skin, take off immediately all contaminated clothing, and wash

immediately with plenty of water.

First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

First-aid measures after ingestion : If swallowed, seek medical advice immediately and show this container or label. Drink

plenty of water. Do not induce vomiting.

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

No additional information available

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : Do not use a water jet since it may cause the fire to spread.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Avoid contact with spilled material. Avoid inhalation of vapours. Evacuate unnecessary

personnel.

Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or

public waters.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Obtain special instructions before use. Do not

handle until all safety precautions have been read and understood. Wear personal

protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Store in a well-ventilated place. Keep cool.

Maximum storage period : 5 year Storage temperature : \leq 40 °C

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

| 2-(2-methoxyethoxy)ethanol (111-77-3) | | |
|--|--|--|
| EU - Indicative Occupational Exposure Limit (IOEL) | | |
| Local name 2-(2-Methoxyethoxy)ethanol | | |
| IOEL TWA 50.1 mg/m³ | | |
| Remark Skin | | |
| Regulatory reference COMMISSION DIRECTIVE 2006/15/EC | | |

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



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8.2.2.1. Eye and face protection

Eye protection:

Safety glasses

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Protective gloves

8.2.2.3. Respiratory protection

Respiratory protection:

No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid Colour : amber. : Not available Odour Odour threshold · Not available : Not applicable Melting point Freezing point : Not available : > 260 °C SAE J 1703 Boiling point Flammability : Not applicable **Explosive limits** : 0.6 – 7 vol % Lower explosive limit (LEL) : Not available Upper explosive limit (UEL) : Not available Flash point : > 120 °C IP 35 Auto-ignition temperature : > 280 °C : > 300 °C Decomposition temperature

Viscosity, kinematic : 5 - 10 mm²/s @20°C

Solubility : Soluble in water. Soluble in ethanol.

Water: 100 % Ethanol: 100 % : Not available

: 7 - 10.5

Partition coefficient n-octanol/water (Log Kow) Partition coefficient n-octanol/water (Log Pow) : < 2

Vapour pressure

: 1 mbar @20°C Vapour pressure at 50 °C : Not available

1.02 - 1.07 kg/l DIN 51757 Density

Relative density : Not available Relative vapour density at 20 °C : Not available Particle size : Not applicable Particle size distribution Not applicable Particle shape : Not applicable : Not applicable Particle aspect ratio : Not applicable Particle aggregation state : Not applicable Particle agglomeration state : Not applicable Particle specific surface area

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Particle dustiness : Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

Relative evaporation rate (butylacetate=1) : < 0.1

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents. Strong reducing agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

| 73920 - BRAKE FLUID DOT 4 | | | |
|---|--|--|--|
| 73320 - DRAKE FLUID DOT 4 | | | |
| LD50 oral (rat) | ≥ 5000 mg/kg | | |
| LD50 dermal (rat) | ≥ 3000 mg/kg | | |
| Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orth | oborate (30989-05-0) | | |
| LD50 oral (rat) | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity) | | |
| LD50 dermal (rat) | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)) | | |
| Butyl Triglycol (143-22-6) | | | |
| LD50 oral (rat) | > 5000 mg/kg bodyweight Animal: rat, Guideline: EU Method B.1 bis (Acute Oral Toxicity - Fixed Dose Procedure) | | |
| LD50 dermal (rabbit) | 3540 mg/kg bodyweight Animal: rabbit, Animal sex: male, 95% CL: 1050 - 11800 | | |

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| according to the NEAGH Regulation (EG) 1307/2000 amended by Regulation (EG) 2020/070 | | | | |
|--|---|--|--|--|
| Butyl Polyglycol (9004-77-7) | | | | |
| LD50 oral (rat) | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity) | | | |
| LD50 dermal (rabbit) | 3540 mg/kg bodyweight Animal: rabbit, Animal sex: male, 95% CL: 1050 - 11800 | | | |
| Skin corrosion/irritation | : Not classified pH: 7 – 10.5 | | | |
| Serious eye damage/irritation | : Not classified pH: 7 – 10.5 | | | |
| Respiratory or skin sensitisation | : Not classified | | | |
| Germ cell mutagenicity | : Not classified | | | |
| Carcinogenicity | : Not classified | | | |
| Reproductive toxicity | : Suspected of damaging the unborn child | | | |
| STOT-single exposure | : Not classified | | | |
| STOT-repeated exposure | : Not classified | | | |
| Tris[2-[2-(2-methoxyethoxy]ethyl] orthoborate (30989-05-0) | | | | |
| NOAEL (oral, rat, 90 days) | ≥ 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) | | | |
| Butyl Triglycol (143-22-6) | | | | |
| LOAEL (oral, rat, 90 days) | 1200 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) | | | |
| NOAEL (oral, rat, 90 days) | 400 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) | | | |
| NOAEL (dermal, rat/rabbit, 90 days) | 4000 mg/kg bodyweight Animal: rat, Guideline: other:EPA TSCA Consent Order | | | |
| Butyl Polyglycol (9004-77-7) | | | | |
| LOAEL (oral, rat, 90 days) | 1200 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) | | | |
| NOAEL (oral, rat, 90 days) | 400 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90- Day Oral Toxicity in Rodents) | | | |
| L | | | | |

: Not classified Aspiration hazard

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5 - 10 mm²/s @20°C Viscosity, kinematic

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

: The product is not considered harmful to aquatic organisms nor to cause long-term adverse Ecology - general

effects in the environment.

Hazardous to the aquatic environment, short-term

: Not classified

Hazardous to the aquatic environment, long-term

: Not classified

(chronic)

| 73920 - BRAKE FLUID DOT 4 | | | |
|---------------------------|---|--------------------------------|--|
| | LC50 - Fish [1] | ≥ 100 mg/l Oncorhynchus Mykiss | |
| | Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate (30989-05-0) | | |

| | Tris[2-[2-(2-methoxyethoxy]ethyl] orthoborate (30989-05-0) | | |
|-----------------|--|--|--|
| LC50 - Fish [1] | | > 222.2 mg/l Test organisms (species): Oncorhynchus mykiss | |

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| Tris[2-[2-(2-methoxyethoxy]ethyl] orthoborate (30989-05-0) | | | |
|---|--|--|--|
| LC50 - Fish [2] > 1010 mg/l Test organisms (species): Oncorhynchus mykiss | | | |
| EC50 - Crustacea [1] | > 211.2 mg/l Test organisms (species): Daphnia magna | | |
| EC50 - Crustacea [2] | > 960 mg/l Test organisms (species): Daphnia magna | | |
| EC50 72h - Algae [1] | > 224.4 mg/l Test organisms (species): other:Pseudokirchneriella subcapitata | | |
| EC50 72h - Algae [2] | > 1020 mg/l Test organisms (species): other:Pseudokirchneriella subcapitata | | |
| Butyl Triglycol (143-22-6) | | | |
| LC50 - Fish [1] | 2400 mg/l Test organisms (species): Pimephales promelas | | |
| LC50 - Fish [2] | 2200 – 4600 mg/l Test organisms (species): Leuciscus idus | | |
| EC50 72h - Algae [1] | 1589 mg/l Test organisms (species): Pseudokirchneriella subcapitata | | |
| EC50 72h - Algae [2] | 3211 mg/l Test organisms (species): Pseudokirchneriella subcapitata | | |
| Butyl Polyglycol (9004-77-7) | | | |
| LC50 - Fish [1] | > 1800 mg/l Test organisms (species): other:Turbot (Scophthalmus maximus) | | |
| EC50 - Crustacea [1] | > 3200 mg/l Test organisms (species): Daphnia magna | | |
| EC50 72h - Algae [1] | 391 mg/l Test organisms (species): Skeletonema costatum | | |

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

| 73920 - BRAKE FLUID DOT 4 | |
|---|-----|
| Partition coefficient n-octanol/water (Log Pow) | < 2 |

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

European List of Waste (LoW) code : 16 01 13* - brake fluids

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

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| ADR | IMDG | IATA | ADN | RID | | |
|----------------------------------|---|-------------------|-------------------|-------------------|--|--|
| 14.1. UN number or ID number | | | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | | |
| 14.2. UN proper shippin | g name | | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | | |
| 14.3. Transport hazard class(es) | | | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | | |
| 14.4. Packing group | | | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | | |
| 14.5. Environmental hazards | | | | | | |
| Dangerous for the | Dangerous for the | Dangerous for the | Dangerous for the | Dangerous for the | | |
| environment: No | environment: No Marine pollutant: No | environment: No | environment: No | environment: No | | |

14.6. Special precautions for user

Overland transport

No data available

Transport by sea

No data available

Air transport

No data available

Inland waterway transport

No data available

Rail transport

No data available

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

15.1.2. National regulations

No additional information available

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15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

| Indication of changes | | | | |
|-----------------------|--|----------|----------|--|
| Section | Changed item | Change | Comments | |
| | Issue date | Modified | | |
| | Supersedes | Removed | | |
| 2.2 | Precautionary statements (CLP) | Modified | | |
| 3 | Composition/information on ingredients | Modified | | |

| Abbreviations and acronyms: | | |
|-----------------------------|---|--|
| 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 | |
| ATE | Acute Toxicity Estimate | |
| BLV | Biological limit value | |
| CAS-No. | Chemical Abstract Service number | |
| CLP | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 | |
| DMEL | Derived Minimal Effect level | |
| DNEL | Derived-No Effect Level | |
| EC50 | Median effective concentration | |
| EC-No. | European Community number | |
| EN | European Standard | |
| IATA | International Air Transport Association | |
| IMDG | International Maritime Dangerous Goods | |
| LC50 | Median lethal concentration | |
| LD50 | Median lethal dose | |
| LOAEL | Lowest Observed Adverse Effect Level | |
| NOAEC | No-Observed Adverse Effect Concentration | |
| NOAEL | No-Observed Adverse Effect Level | |
| NOEC | No-Observed Effect Concentration | |
| OEL | Occupational Exposure Limit | |
| PBT | Persistent Bioaccumulative Toxic | |
| PNEC | Predicted No-Effect Concentration | |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 | |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail | |
| SDS | Safety Data Sheet | |
| vPvB | Very Persistent and Very Bioaccumulative | |
| WGK | Water Hazard Class | |

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| Full text of H- and EUH-statements: | |
|-------------------------------------|--|
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H361 | Suspected of damaging fertility or the unborn child. |
| H361d | Suspected of damaging the unborn child. |
| Repr. 2 | Reproductive toxicity, Category 2 |

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.