

Safety data sheet according to UK REACH

Printing date 30.07.2024

Version number 15 (replaces version 14)

Revision: 29.07.2024

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

· **1.1 Product identifier**

· **Trade name:** TRW DOT 4 Brake Fluid

· **Article number:**

4204401, 4204405, 4204450, PFB104, PFB104i, PFB104i2, PFB401, PFB401AP, PFB401CE, PFB401IR, PFB401RE, PFB401SE, PFB405, PFB405AP, PFB405CE, PFB405IR, PFB405RE, PFB405SE, PFB420, PFB420AE, PFB420DR, PFB420DRAE, PFB425, PFB425AP, PFB425ENG, PFB425FRA, PFB425GER, PFB425MXC, PFB425POL, PFB425POR, PFB425ROM, PFB425RUL, PFB425RUS, PFB450, PFB450AP, PFB450CE, PFB450IR, PFB450MXC, PFB450RE, PFB450SE, PFB455.SQ, PFB480AP, PFB490MXC

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

No further relevant information available.

· **Application of the substance / the mixture** Brake fluid

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

ZF Aftermarket UK Ltd.
Abbeyfield Road
Lenton
Nottingham, NG7 2SX
Tel +44 333 240 1123
Fax +44 115 986 92 61
<https://www.zf.com>

· **Informing department:**

Phone: +49 7541 77 0

E-Mail adress of the competent person for the safety data sheet:

reach@dekra.com

· **1.4 Emergency telephone number:**

Poison Information Center Munich

Phone: +49 (0) 89 - 19 240

Information in German and English

* **SECTION 2: Hazards identification**

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**



health hazard

Repr. 2 H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.



Eye Irrit. 2 H319 Causes serious eye irritation.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the GB CLP regulation.

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· **Hazard pictograms**



GHS07 GHS08

· **Signal word** Warning

· **Hazard-determining components of labelling:**

Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate

· **Hazard statements**

H319 Causes serious eye irritation.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

· **Precautionary statements**

P102 Keep out of reach of children.

P280 Wear protective gloves / eye protection / face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

P337+P313 If eye irritation persists: Get medical advice/attention.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Additional information:**

Please refer to further labelling elements in section 15 of this safety data sheet, if applicable.

· **Information pertaining to particular dangers for man and environment**

There are analysis results available for this product or a product with a comparable composition which show an eye irritation but not an eye corrosion. This product is classified and labelled according to the analysis results.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

* **SECTION 3: Composition/information on ingredients**



· **3.2 Mixtures**

· **Description:**

Mixture of the substances listed below including additives not requiring identification.

Added are corrosion and oxidation inhibitors.

· **Dangerous components:**

CAS: 143-22-6 EINECS: 205-592-6 Reg.nr.: 01-2119475107-38-X	2-[2-(2-butoxyethoxy)ethoxy]ethanol  Eye Dam. 1, H318 Specific concentration limits: Eye Dam. 1; H318: C ≥ 30 % Eye Irrit. 2; H319: 20 % ≤ C < 30 %	25 - 40%
CAS: 30989-05-0 EINECS: 250-418-4 Reg.nr.: 01-2119462824-33-X	Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate  Repr. 2, H361fd	15 - 25%

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CAS: 111-46-6 EINECS: 203-872-2 Reg.nr.: 01-2119457857-21-X	2,2'-oxybisethanol ⚠ Acute Tox. 4, H302	5 - 10%
CAS: 1559-34-8 EINECS: 216-322-1 Reg.nr.: 01-2120768763-41-X	3,6,9,12-tetraoxahexadecan-1-ol ⚠ Eye Irrit. 2, H319	5 - 10%
CAS: 112-34-5 EINECS: 203-961-6 Reg.nr.: 01-2119475104-44-X	2-(2-butoxyethoxy)ethanol ⚠ Eye Irrit. 2, H319	1 - 3%
CAS: 111-77-3 EINECS: 203-906-6 Reg.nr.: 01-2119475100-52-X	Methoxydiglycol ⚠ Repr. 1B, H360D Specific concentration limit: Repr. 1B; H360D: C ≥ 3 %	< 1%

· **Additional information** For the wording of the listed hazard phrases refer to section 16.

* SECTION 4: First aid measures

· 4.1 Description of first aid measures

· General information

Show this safety data sheet to the attending physician.

Personal protection for the First Aider.

Instantly remove any clothing contaminated by the product.

· After inhalation

Supply fresh air; consult doctor in case of symptoms.

In case of unconsciousness bring patient into stable side position for transport.

· After skin contact

Instantly wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· After eye contact

Use eye protection.

Keep eye lids open and rinse them with ample amounts of clean running water for at least 15 minutes.

Remove contact lenses if possible.

In case of permanent aches and pains please go and see the doctor.

· After swallowing

Rinse out mouth and then drink plenty of water.

Call a doctor immediately.

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

No further relevant information available.

· Danger Danger of kidney damage.

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

No further relevant information available.

* SECTION 5: Firefighting measures

· 5.1 Extinguishing media

· Suitable extinguishing agents

Extinguishing powder, foam or water jet. Fight larger fires with water jet or alcohol-resistant foam.

Use fire fighting measures that suit the environment.

· For safety reasons unsuitable extinguishing agents Water with a full water jet.

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- **5.2 Special hazards arising from the substance or mixture**
Inhalation of combustion gases may cause serious health hazards.
Can be released in case of fire:
Carbon monoxide and carbon dioxide
Formation of flammable mixtures of vapours with air possible.
 - **5.3 Advice for firefighters**
 - **Protective equipment:** Wear self-contained breathing apparatus.
 - **Additional information**
Remove goods in stock from incendiary zone, if possible.
Use water to keep fire exposed containers cool.
-

* **SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**
Clear the danger zone.
Avoid contact with the product.
Ensure adequate ventilation
Particular danger of slipping on leaked/spilled product.
 - **For non-emergency personnel** Evacuate personnel to safe area.
 - **For emergency responders** Put on suitable personal protective equipment.
 - **6.2 Environmental precautions:**
Prevent from spreading (e.g. by damming-in or oil barriers).
Do not allow to enter drainage system, surface or ground water.
 - **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).
Dispose of contaminated material as waste according to section 13.
 - **6.4 Reference to other sections**
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal.
-

* **SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling**
Open and handle container with care.
Prevent formation of aerosols.
Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:**
The product forms flammable fumes when heated.
- **Handling**
The usual precautionary measures should be adhered to general rules for handling chemicals.
Do not eat, drink or smoke while working.
Avoid direct contact with eyes, skin and clothing.
Wash hands during breaks and at the end of the work.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:**
Store cool and dry in well sealed containers.
Store only in the original container.

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Ensure sufficient ventilation.

- **Information about storage in one common storage facility:**

Store away from oxidising agents.

Keep away from food, drink and animal feeding stuffs.

- **Further information about storage conditions:**

Protect from humidity and keep away from water.

Protect from heat and direct sunlight.

Protect from frost.

Recommended storage temperature: 15 - 30 °C

- **7.3 Specific end use(s)** Brake fluid

* SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**

- **Components with limit values that require monitoring at the workplace:**

WEL: workplace exposure limit

OEL: Occupational Exposure Limit

111-46-6 2,2'-oxybisethanol	
WEL (Great Britain)	Long-term value: 101 mg/m ³ , 23 ppm
OEL (Ireland)	Long-term value: 100 mg/m ³ , 23 ppm
112-34-5 2-(2-butoxyethoxy)ethanol	
WEL (Great Britain)	Short-term value: 101.2 mg/m ³ , 15 ppm Long-term value: 67.5 mg/m ³ , 10 ppm
IOELV (European Union)	Short-term value: 101.2 mg/m ³ , 15 ppm Long-term value: 67.5 mg/m ³ , 10 ppm
OEL (Ireland)	Short-term value: 101.2 mg/m ³ , 12 ppm Long-term value: 67.5 mg/m ³ , 10 ppm IOELV
111-77-3 Methoxydiglycol	
WEL (Great Britain)	Long-term value: 50.1 mg/m ³ , 10 ppm Sk
IOELV (European Union)	Long-term value: 50.1 mg/m ³ , 10 ppm Skin
OEL (Ireland)	Long-term value: 50.1 mg/m ³ , 10 ppm Skin, IOELV

- **Additional information:** The lists that were valid during the compilation were used as basis.

- **8.2 Exposure controls**

- **Individual protection measures, such as personal protective equipment**

- **General protective and hygienic measures**

Keep away from foodstuffs, beverages and food.

Take off all contaminated clothing immediately.

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

- **Breathing equipment:**

Not necessary if room is well-ventilated.

Use breathing protection only when aerosol or mist is formed.

Filter A/P2.

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· **Hand protection**



Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Only use chemical-protective gloves with CE-labelling of category III (EN 374).

· **Material of gloves**

Butyl rubber, BR

Nitrile rubber, NBR

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

In case of a layer thickness of ≥ 0.4 mm the penetration time is longer than 480 minutes.

· **Eye/face protection**



Tightly sealed safety glasses.

* **SECTION 9: Physical and chemical properties**

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Physical state**

Fluid

· **Colour:**

Amber coloured

· **Odour:**

Mild

· **Odour threshold:**

Not determined.

· **Melting point/freezing point:**

< -50 °C

· **Boiling point or initial boiling point and boiling range**

> 260 °C

· **Flammability**

Not applicable.

· **Lower and upper explosion limit**

· **Lower:**

Not determined.

· **Flash point:**

> 100 °C

· **Auto-ignition temperature:**

> 280 °C

· **Decomposition temperature:**

Not determined.

· **SADT**

· **pH**

7 - 10.5

· **Viscosity:**

· **Kinematic viscosity at 20 °C**

5 - 10 cSt

· **dynamic:**

Not determined.

· **Solubility**

· **Water:**

Fully miscible

· **Partition coefficient n-octanol/water (log value)**

1.5 log POW

· **Vapour pressure:**

Not determined.

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· Density and/or relative density	
· Density	1.02 - 1.07 g/cm ³
· Vapour density	Not determined.
· 9.2 Other information	
· Appearance:	
· Form:	Fluid
· Important information on protection of health and environment, and on safety.	
· Self-inflammability:	Product is not selfigniting.
· Explosive properties:	Product is not explosive.
· Change in condition	
· Evaporation rate	Not determined.
· Information with regard to physical hazard classes	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Void
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions**
Possible formation of peroxide
Reacts with light alloys to form hydrogen
- **10.4 Conditions to avoid** Brake fluids should never be contaminated with any other substance.
- **10.5 Incompatible materials:** Avoid contact with strong oxidizing agents.
- **10.6 Hazardous decomposition products:**
None in case of intended use and storage in compliance with instructions.

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* SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

- **LD/LC50 values that are relevant for classification:**

143-22-6 2-[2-(2-butoxyethoxy)ethoxy]ethanol		
Oral	LD50	5,170 mg/kg (Rat)
Dermal	LD50	3,540 mg/kg (rabbit)
30989-05-0 Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate		
Oral	LD50	> 2,000 mg/kg (Rat) (OECD 401)
Dermal	LD50	> 2,000 mg/kg (Rat) (OECD 402)
111-46-6 2,2'-oxybisethanol		
Oral	LD50	16,500 mg/kg (Rat)
Dermal	LD50	13,300 mg/kg (rabbit)
1559-34-8 3,6,9,12-tetraoxahexadecan-1-ol		
Oral	LD50	2,630 mg/kg (Rat)
Dermal	LD50	3,540 mg/kg (rabbit)
112-34-5 2-(2-butoxyethoxy)ethanol		
Oral	LD50	5,660 mg/kg (Rat)
Dermal	LD50	2,764 mg/kg (rabbit) (OECD 402)
Inhalative	LC0	67.5 mg/l/0.5h (human)
111-77-3 Methoxydiglycol		
Oral	LD50	7,128 mg/kg (mouse) (OECD 201)
Dermal	LD50	9,404 mg/kg (rabbit) (OECD 402)
Inhalative	LC0	> 1.2 mg/l/6h (Rat) (OECD 403)

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**
Studies show that the product is not harmful to the eyes.
Causes severe eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.

- **Reproductive toxicity**

Suspected of damaging fertility. Suspected of damaging the unborn child.

- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

- **Additional toxicological information:**

- **Acute effects (acute toxicity, irritation and corrosivity)**

There are analysis results available for this product or a product with a comparable composition which show an eye irritation but not an eye corrosion. This product is classified and labelled according to the analysis results.

- **Repeated dose toxicity**

Repeated oral intake can cause kidney damage.

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143-22-6 2-[2-(2-butoxyethoxy)ethoxy]ethanol		
Oral	NOAEL (90d)	500 mg/kg bw/day (Rat)
112-34-5 2-(2-butoxyethoxy)ethanol		
Oral	NOAEL (90d)	250 mg/kg bw/day (Rat) (OECD 408)
Dermal	NOAEL (90d)	2,000 mg/kg bw/day (Rat) (OECD 411)
Inhalative	NOAEC (90d)	94 mg/m ³ (Rat) (OECD 413) Vapour
111-77-3 Methoxydiglycol		
Oral	NOAEL (28d)	900 mg/kg bw/day (Rat) (OECD 407)
Dermal	NOAEL (90d)	40 mg/kg bw/day (guinea pig) (OECD 411)
Inhalative	NOAEC (90d)	> 1,060 mg/m ³ (Rat) (OECD 413)
· CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction) Repr. 2		
· 11.2 Information on other hazards		
· Endocrine disrupting properties		
None of the ingredients is listed.		

* SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

143-22-6 2-[2-(2-butoxyethoxy)ethoxy]ethanol	
EC50 (static)	2,210 mg/l/48h (Daphnia magna) (EU C.2)
EC0 (static)	2,150 mg/l/96h (fish) (DIN 38 412-L15)
LC50	2,400 mg/l/96h (Pimephales promelas) 2,200 - 4,600 mg/l/96h (fish) (DIN 38412-15)
EC50 (static)	840 mg/l/72h (Desmodesmus subspicatus) (OECD 201)
NOEC (static)	1,000 mg/l/96h (fish) (DIN 38 412-L15)
30989-05-0 Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate	
EC50	> 211.2 mg/l/48h (Daphnia magna) (OECD 202)
LC50	> 222.2 mg/l/96h (Oncorhynchus mykiss) (OECD 203)
EC50	> 224.4 mg/l/72h (Raphidocelis subcapitata) (OECD 201)
111-46-6 2,2'-oxybisethanol	
EC50	62,630 mg/l/48h (Daphnia magna)
LC50 (dynamic)	75,222 mg/l/96h (Pimephales promelas)
1559-34-8 3,6,9,12-tetraoxahexadecan-1-ol	
EC50	> 3,200 mg/l/48h (Daphnia magna) (OECD 202)
LC50	> 1,800 mg/l/96h (Scophthalmus maximus) (OECD 203)
EC50	2,490 mg/l/72h (Algae)
112-34-5 2-(2-butoxyethoxy)ethanol	
EC50 (static)	> 100 mg/l/48h (Daphnia magna) (OECD 202)

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EC50 (static)	> 100 mg/l/96h (Desmodesmus subspicatus) (OECD 201)
LC50 (static)	1,300 mg/l/96h (Lepomis macrochirus) (OECD 203)
111-77-3 Methoxydiglycol	
EC50 (static)	1,192 mg/l/48h (Daphnia magna)
EC50 (static)	> 1,000 mg/l/96h (Selenastrum capricornutum) (OECD 201)
LC50 (static)	5,741 mg/l/96h (Pimephales promelas)

- **12.2 Persistence and degradability** Easily biodegradable
- **Other information:** There are no data available about the preparation.
- **12.3 Bioaccumulative potential**
Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties**
The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system. The waste code numbers mentioned are recommendations based on the probable use of the product.

• European waste catalogue	
16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 01 00	end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)
16 01 13*	brake fluids
HP4	Irritant - skin irritation and eye damage
HP10	Toxic for reproduction

- **Uncleaned packagings:**
- **Recommendation:**
Disposal must be made according to official regulations.
Dispose of packaging according to regulations on the disposal of packagings.
Non contaminated packagings can be used for recycling.
Cleaned packing materials have to be admitted to local recycling circuits.
- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

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SECTION 14: Transport information

· 14.1 UN number or ID number · ADR/RID, ADN, IMDG, IATA	Void
· 14.2 UN proper shipping name · ADR/RID, ADN, IMDG, IATA	Void
· 14.3 Transport hazard class(es) · ADR/RID, ADN, IMDG, IATA · Class	Void
· 14.4 Packing group · ADR/RID, IMDG, IATA	Void
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user	Not applicable.
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	Void

*** SECTION 15: Regulatory information**

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Poisons Act**

· **Regulated explosives precursors**

None of the ingredients is listed.

· **Regulated poisons**

None of the ingredients is listed.

· **Reportable explosives precursors**

None of the ingredients is listed.

· **Reportable poisons**

None of the ingredients is listed.

· **Chemical safety assessment**

- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

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- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.
-

* **SECTION 16: Other information**

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

- H302 Harmful if swallowed.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H360D May damage the unborn child.
- H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

· **Department issuing data specification sheet:**

- ▶ **DEKRA** This Safety Data Sheet has been drawn up in cooperation with:
DEKRA Assurance Services GmbH, Hanomagstr. 12, D-30449 Hanover, Germany,
phone: (+49) 511 42079 - 0, reach@dekra.com.

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· **Abbreviations and acronyms:**

- ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Acute Tox. 4: Acute toxicity – Category 4
- Eye Dam. 1: Serious eye damage/eye irritation – Category 1
- Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
- Repr. 1B: Reproductive toxicity – Category 1B
- Repr. 2: Reproductive toxicity – Category 2

- **Sources** Because of lack on recipe information, this SDS was created on the basis of the supplier's SDS.

- * **Data compared to the previous version altered.**

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