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Safety data sheet according to UK REACH

Printing date 30.07.2024

Version number 11 (replaces version 10)

Revision: 30.07.2024

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

- · 1.1 Product identifier
- · Trade name: TRW Brake Cleaner Spray
- · Article number: PFC105, PFC105CE, PFC105E, PFC105SE, PFC105RE
- 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 Cleaner solvent Detergent spray
- · 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 (0) 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



Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

healt	h hazard	
Repr. 2	H361f	Suspected of damaging fertility.
STOT RE 2	H373	May cause damage to organs through prolonged or repeated exposure.
$\mathbf{\nabla}$	onment	
Aquatia Chronia 2 U/11		Taxia ta aguatia lifa with lang lacting affasts

Aquatic Chronic 2 H411

Toxic to aquatic life with long lasting effects.



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Trade name: TRW Brake Cleaner Spray

Skin Irrit. 2	H315	Causes skin irritation.
STOT SE 3	H336	May cause drowsiness or dizziness.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008
- The product is classified and labelled according to the GB CLP regulation.
- Hazard pictograms



GHS02 GHS07 GHS08 GHS09

- · Signal word Danger
- Hazard-determining components of labelling:

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics n-hexane

· Hazard statements

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

- H315 Causes skin irritation.
- H361f Suspected of damaging fertility.
- H336 May cause drowsiness or dizziness.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P211 Do not spray on an open flame or other ignition source.
- P251 Do not pierce or burn, even after use.
- P260 Do not breathe spray.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves / eye protection / face protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P312 Call a POISON CENTER/doctor if you feel unwell.
- P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
- 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.

- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.

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Trade name: TRW Brake Cleaner Spray

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- · 3.2 Mixtures
- · Description: Mixture of the substances listed below including additives not requiring identification.

· Dangerous components:		
EC number: 927-510-4 Reg.nr.: 01-2119475515-33-X	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics Flam. Liq. 2, H225; S Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	50 - 100%
CAS: 124-38-9 EINECS: 204-696-9	carbon dioxide substance with a Community workplace exposure limit	1 - 10%
CAS: 110-54-3 Reg.nr.: 01-2119480412-44-X	n-hexane Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	0.5 - 5%
• 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.

In case of permanent aches and pains please go and see the 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 Do not induce vomiting; instantly call for medical help.
- · 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- · 4.3 Indication of any immediate medical attention and special treatment needed If swallowed or in case of vomiting, danger of entering the lungs

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.

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- Use fire fighting measures that suit the environment.
- · For safety reasons unsuitable extinguishing agents Water with a full water jet.
- · 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

Vapours are heavier than air and may travel long distances along ground, ignite and flash back to source. 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. Cool endangered containers with water spray.

Vapours may form an explosive atmosphere with air.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Clear the danger zone.
 Ensure adequate ventilation Avoid contact with the product.
 Keep away from sources of ignition - No smoking.
 For non-emergency personnel Evacuate personnel to safe area.
- For emergency responders Put on suitable personal protective equipment.
- 6.2 Environmental precautions: 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. Ensure adequate ventilation.

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

Ensure good ventilation/exhaustion at the workplace. Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air). Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Fumes can combine with air to form an explosive mixture. Vapours are heavier than air and and can spread on the floor. Protect against electrostatic charges.

· 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.



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- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage
- · Requirements to be met by storerooms and containers:

No smoking!

Store cool and dry in well sealed containers. Store only in the original container. Ensure sufficient ventilation.

- Information about storage in one common storage facility: Keep away from food, drink and animal feeding stuffs.
- Further information about storage conditions: Protect from heat and direct sunlight.
- Storage temperature < 50°C.
- 7.3 Specific end use(s) No further relevant information available.

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

124-38-9 carbon dioxide		
WEL (Great Britain)	Short-term value: 27400 mg/m ³ , 15000 ppm Long-term value: 9150 mg/m ³ , 5000 ppm	
IOELV (European Union)	Long-term value: 9000 mg/m ³ , 5000 ppm	
OEL (Ireland)	Long-term value: 9000 mg/m³, 5000 ppm IOELV	
110-54-3 n-hexane		
WEL (Great Britain)	Long-term value: 72 mg/m ³ , 20 ppm	
IOELV (European Union)	Long-term value: 72 mg/m ³ , 20 ppm	
OEL (Ireland)	Long-term value: 72 mg/m³, 20 ppm IOELV, Skin	

· 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. In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air. Filter AX.



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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 Nitrile rubber, NBR
- *Penetration time of glove material* In case of a layer thickness of 0.4 mm the penetration time is longer than 480 minutes. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- · Eye/face protection



Tightly sealed safety glasses.

SECTION 9: Physical and chemical properties

• 9.1 Information on basic physical and chemical • General Information	properties
· Physical state	Aerosol
· Colour:	colourless
· Odour:	Solvent-like
· Odour threshold:	
	Not determined.
• Melting point/freezing point:	Not determined
· Boiling point or initial boiling point and boiling	Net ex Perkle er er er el
range	Not applicable, as aerosol
· Flammability	Not applicable.
· Lower and upper explosion limit	
· Lower:	0.6 Vol % (Hydrocarbons, C7, n-alkanes, isoalkanes,
	cyclics)
· Upper:	7 Vol % (Hydrocarbons, C7, n-alkanes, isoalkanes,
	cyclics)
· Flash point:	Not applicable, as aerosol
 Auto-ignition temperature: 	Product is not selfigniting.
 Decomposition temperature: 	Not determined.
· SADT	
· pH	Not determined.
· Viscosity:	
 Kinematic viscosity 	Not determined.
· dynamic:	Not applicable.
-	Not determined.
· Solubility	
· Water:	Not miscible or difficult to mix
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	GB

ZF Friedrichshafen AG Löwentaler Straße 20, 88046 Friedrichshafen, Germany www.zf.com/contact



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· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure:	Not determined.
 Density and/or relative density 	
· Density at 20 °C	0.714 g/cm ³
· 9.2 Other information	
· Appearance:	
· Form:	Aerosol
· Important information on protection of health	
and environment, and on safety.	
Self-inflammability:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of
	explosive air/steam mixtures is possible.
· Solvent content:	
· Organic solvents:	50 - 100 %
· Change in condition	
· Evaporation rate	Not determined.
Information with regard to physical hazard	
classes	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Extremely flammable aerosol. Pressurised container
	May burst if heated.
· 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
· Additional information	> 60 pS/m

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 Forms explosive gas mixture with air
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.



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Trade name: TRW Brake Cleaner Spray

10.6 Hazardous decomposition products:

None in case of intended use and storage in compliance with instructions.

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:

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

•			
Oral	LD50	> 5,840 mg/kg (Rat)	
Dermal	LD50	> 2,920 mg/kg (Rat)	
Inhalative	LC50	> 23.3 mg/l/4h (Rat) (OECD 403)	
		Vapour	
110-54-3 n-hexane			
Oral	LD50	> 16,000 mg/kg (Rat) (OECD 401)	
Dermal	LD50	> 3,350 mg/kg (rabbit)	
Inhalative	LC50	> 17.6 mg/l/24h (Rat) (OECD 403)	
		Vapour	
 Skin corrosion/irritation Long-term skin contact may cause skin irritation and/or dermatitis. Serious eye damage/irritation Based on available data, the classification criteria are not met. 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. Carcinogenicity 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. STOT-single exposure			

· Repeated dose toxicity		
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics		
Inhalative	NOAEC (90d)	1,600 mg/m ³ (Rat)
		Vapour
110-54-3 n-hexane		
Oral	NOAEL (90d)	1,135 mg/kg bw/day (Rat)
Inhalative	NOAEC (90d)	1,760 mg/m ³ (mouse) (OECD 413)
		Vapour
CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)		
Repr. 2		

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Trade name: TRW Brake Cleaner Spray

· 11.2 Information on other hazards

Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:		
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics		
EC50 (static)	3 mg/l/48h (Daphnia magna) (OECD 202)	
LC50	> 13.4 mg/l/96h (Oncorhynchus mykiss) (OECD 203)	
EC50 (static)	12 mg/l/72h (Raphidocelis subcapitata) (OECD 201)	
110-54-3 n-hexane		
LC50	> 1,000 mg/l /48h (Oryzias latipes)	
12.2 Persistence and degradability biodegradable		
 Other information: There are no data available about the preparation. 		
 12.3 Bioaccumulative potential No further relevant information available. 		
 12.4 Mobility in soil No further relevant information available. 		
10 C Desults of DDT and vDvD sessences		

- · 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.
- · Remark: Toxic for fish
- Additional ecological information:

· General notes:

Toxic for aquatic organisms

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water. Do not allow product to reach ground water, water bodies or sewage system.

Danger to drinking water if even small quantities leak into soil.

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 05 00	gases in pressure containers and discarded chemicals	
	gases in pressure containers (including halons) containing hazardous substances	
14 00 00	WASTE ORGANIC SOLVENTS, REFRIGERANTS AND PROPELLANTS (EXCEPT 07 AND 08)	
14 06 00	waste organic solvents, refrigerants and foam/aerosol propellants	

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14 06 03*	other solvents and solvent mixtures
15 00 00	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
15 01 00	packaging (including separately collected municipal packaging waste)
15 01 11*	metallic packaging containing a hazardous solid porous matrix (for example asbestos), including empty pressure containers
HP3	Flammable
HP4	Irritant - skin irritation and eye damage
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP10	Toxic for reproduction
HP14	Ecotoxic

· Uncleaned packagings:

· Recommendation:

Disposal must be made according to official regulations.

Dispose of packaging according to regulations on the disposal of packagings.

SECTION 14: Transport information

 14.1 UN number or ID number ADR/RID, IMDG, IATA 	UN1950
 14.2 UN proper shipping name ADR/RID IMDG IATA 	1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS AEROSOLS, MARINE POLLUTANT AEROSOLS, flammable
· 14.3 Transport hazard class(es)	
· ADR/RID	
· Class	2 5F Gases.
· Label	2.1
·IMDG	
· Class	2.1 Gases.
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Label	2.1
· Class · Label	2.1 Gases. 2.1
· 14.4 Packing group · ADR/RID, IMDG, IATA	Void
 14.5 Environmental hazards: Marine pollutant: Special marking (ADR/RID): 	Yes Symbol (fish and tree) Symbol (fish and tree)
 14.6 Special precautions for user Kemler Number: EMS Number: Stowage Code Segregation Code 	Warning: Gases. - F-D,S-U SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity o litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS Category C, Clear of living quarters. SG69 For AEROSOLS with a maximum capacity of litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.
 14.7 Maritime transport in bulk accordi instruments 	ing to IMO Not applicable.
· Transport/Additional information:	
 ADR/RID Limited quantities (LQ) Excepted quantities (EQ) 	1L Code: E0 Not permitted as Excepted Quantity
 Transport category Tunnel restriction code 	2 D
· IMDG · Limited quantities (LQ)	1L
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· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
· UN "Model Regulation":	UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS

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 ingred Seveso category E2 Hazardous to the Aquatic Environment 	dients is listed.

- E2 Hazardous to the Aquatic Environment P3b FLAMMABLE AEROSOLS
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- · 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.

National regulations

- Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.
- 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

- H225 Highly flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H336 May cause drowsiness or dizziness.

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H361f Suspected of damaging fertility.

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H372 Causes damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

· 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

Aerosol 1: Aerosols - Category 1

Flam. Liq. 2: Flammable liquids - Category 2

Skin Irrit. 2: Skin corrosion/irritation - Category 2

Repr. 2: Reproductive toxicity – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 1: Specific target organ toxicity (repeated exposure) - Category 1

STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2

Asp. Tox. 1: Aspiration hazard - Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - 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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