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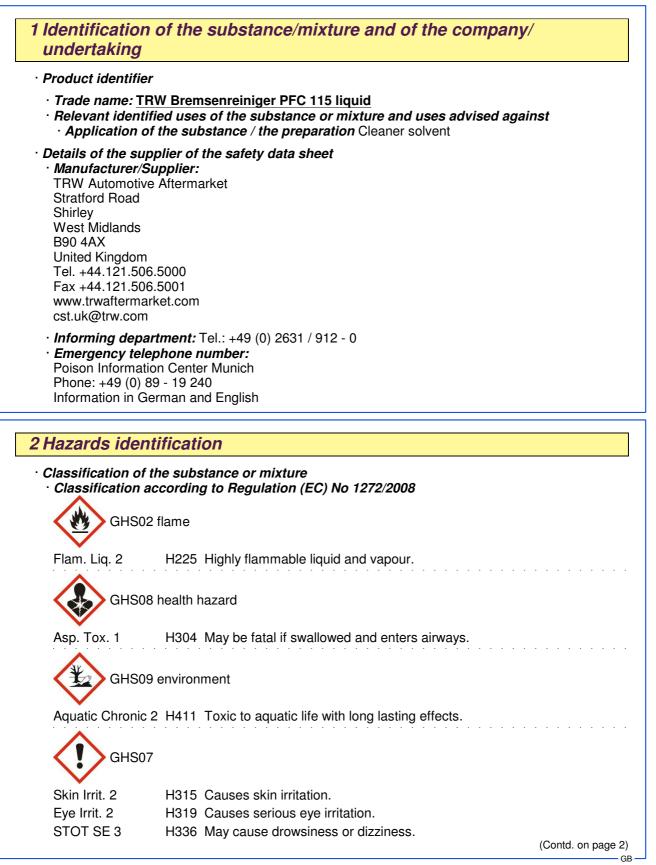
Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 13.06.2012

Version number 1

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Trade name: TRW Bremsenreiniger PFC 115 liquid

o	(Contd. from pa
	cation according to Directive 67/548/EEC or Directive 1999/45/EC Harmful
R65:	Harmful: may cause lung damage if swallowed.
	Irritant
R36/38:	Irritating to eyes and skin.
🐞 F; F	lighly flammable
R11:	Highly flammable.
¥ N; [Dangerous for the environment
R51/53:	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
The pro guidelin Has a • <i>Classi</i> The cla	Vapours may cause drowsiness and dizziness. Pation concerning particular hazards for human and environment: boduct has to be labelled due to the calculation procedure of the "General Classification the for preparations of the EU" in the latest valid version. harcotizing effect. fication system: assification is in line with current EC lists. It is expanded, however, by information from the latest valid version. the latest valid version. harcotizing effect. fication system: assification is in line with current EC lists. It is expanded, however, by information from the latest valid version. The latest valid version. fication system: assification is in line with current EC lists. It is expanded, however, by information from the latest valid version.
Label eler	
The proc Hazardo	<i>g according to EU guidelines:</i> luct has been classified and labelled in accordance with EC Directives / Ordinance or us Materials (GefStoffV)
· Code I	letter and hazard designation of product:
×	Xn Harmful F Highly flammable N Dangerous for the environment
	d-determining components of labelling: na (petroleum), hydrotreated light
11 36/38 51/53 65	<i>hrases:</i> Highly flammable. rritating to eyes and skin. Foxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful: may cause lung damage if swallowed. Vapours may cause drowsiness and dizziness.
2 Kee 9 Kee 23 Do 26 In c 60 This 62 If sv con	
	<i>of PBT and vPvB assessment</i> lot applicable.
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· vPvB: Not applicable.

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3 Composition/information on ingredients

· Chemical characterization: Mixtures

• **Description:** Mixture consisting of the following components.

· Dangerous components:		
CAS: 64742-49-0	Naphtha (petroleum), hydrotreated light	50-100%
	🗙 Xn R65; 🗙 Xi R38; 🔥 F R11; 🏪 N R51/53 R67	
	 Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic H411; Skin Irrit. 2, H315; STOT SE 3, H336 	
CAS: 67-63-0	propan-2-ol	10-25%
EINECS: 200-661-7	🗙 Xi R36; 👩 F R11	
	R67	
	🚸 Flam. Liq. 2, H225; 🚸 Eye Irrit. 2, H319; STOT SE 3, H336	
 Additional inform 	tation For the wording of the listed risk phrases refer to section 16.	

4 First aid measures

· Description of first aid measures

- General information Remove contaminated clothing.
- · 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

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

- After swallowing Do NOT induce vomiting in order to prevent an invasion into the lungs.
- · Information for doctor
 - *Most important symptoms and effects, both acute and delayed* No further relevant information available.
 - *Indication of any immediate medical attention and special treatment needed* If swallowed or in case of vomiting, danger of entering the lungs

5 Firefighting measures

- · Extinguishing media
 - Suitable extinguishing agents

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

- For safety reasons unsuitable extinguishing agents Water with a full water jet.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
 - Protective equipment:
 - Do not inhale explosion gases or combustion gases.
 - Wear self-contained breathing apparatus.
- · Additional information

Remove fill mass from incendiary zone, if possible.

Vapours may form an explosive atmosphere with air.

Collect contaminated fire fighting water separately. It must not enter drains.

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Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
 Ensure adequate ventilation Keep away from sources of ignition - No smoking.
 Environmental precautions:
- Do not allow to enter drainage system, surface or ground water. Inform respective authorities in case product reaches water or sewage system. *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 item 13. Ensure adequate ventilation.
- 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.

7 Handling and storage

· Handling

- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.

\cdot Conditions for safe storage, including any incompatibilities

· Storage

- · Requirements to be met by storerooms and containers: Store in cool location.
- · Information about storage in one common storage facility: Store away from foodstuffs.
- *Further information about storage conditions:* Keep container tightly sealed.
- Store in cool, dry conditions in well sealed containers.

· Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Control parameters
 - *Components with limit values that require monitoring at the workplace:* OEL: occupational exposure limit
 - WEL: workplace exposure limit

67-63-0 propan-2-ol

WEL Short-term value: 1250 mg/m³, 500 ppm Long-term value: 999 mg/m³, 400 ppm

· DNELs

64742-49-0 Naphtha (petroleum), hydrotreated light

Dermal DNEL (worker, long-term, systemic) 25.9 mg/kg bw/day (human)

Inhalative DNEL (worker, long-term, systemic) 3.25 mg/m³ (human)

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

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(Contd. from page 4) · Exposure controls · Personal protective equipment · General protective and hygienic measures Keep away from foodstuffs, beverages and food. Take off immediately all contaminated clothing Wash hands during breaks and at the end of the work. Do not inhale gases / fumes / aerosols. 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. · Protection of hands: Protective aloves. To avoid skin problems reduce the wearing of gloves to the required minimum. · 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.
- Eye protection: Tightly sealed safety glasses.

Information on basic physical and cl · General Information	hemical properties
· Appearance:	
· Form:	Fluid
· Colour:	Colourless
· Odour:	Solvent-like
· Odour threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
• Melting point/Melting range:	Not determined
 Boiling point/Boiling range: 	70℃
· Flash point:	12 <i>°</i> C
· Inflammability (solid, gaseous)	Not applicable.
· Ignition temperature:	328 ℃
· Decomposition temperature:	Not determined.
· Self-inflammability:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/steam mixtures is possible.
· Critical values for explosion:	
· Lower:	1.1 Vol %
· Upper:	12.0 Vol %
· Vapour pressure at 20°C:	44 hPa
· Density at 20 °C	0.71 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
 Evaporation rate 	Not determined.

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· Solubility in / Miscibility with		
· Water:	Not miscible or difficult to mix	
· Partition coefficient (n-octano	<i>I/water):</i> Not determined.	
· Viscosity:		
· dynamic:	Not determined.	
· Solvent content:		
 Organic solvents: 		
· VOC EU	100 %	
Other information	No further relevant information available.	

10 Stability and reactivity

· Reactivity

- · Chemical stability
 - Thermal decomposition / conditions to be avoided:
 - No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- Hazardous decomposition products:
- None in case of intended use and storage in compliance with instructions.

11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

64742-49-0 Naphtha (petroleum), hydrotreated light

- Oral LD50 5580 mg/kg (rat) (EU Method B.1)
- Dermal LD50 8260 mg/kg (guinea pig) (21 CFR 191.10)

Inhalative LC50 43.7 mg/l/4h (rat) (OECD 403)

· Primary irritant effect:

• on the skin:

Irritant to skin and mucous membranes.

- Long-term skin contact may cause skin irritation and/or dermatitis.
- · on the eye: Irritant effect.

• Sensitization: No sensitizing effect known.

· Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version: Irritant

Smallest amounts which can get into the lungs by means of swallowing or subsequent vomiting can cause a pulmonary oedema or pneumonia.

When inhaling high concentrations narcotic symptoms are possible.

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12 Ecolog	ical information	
· Toxicity		
Aquatic	toxicity:	
64742-49-	0 Naphtha (petroleum), hydrotreated light	
EC50 (sta	EC50 (static) 12.4 mg/l/72h (Pseudokirchneriella subcapitata) (OECD 201)	
	4.7 mg/l/48h (Daphnia magna) (OECD 202)	
LC50 (stat	ic) 8.41 mg/l/96h (Oncorhynchus mykiss) (OECD 203)	
 Behaviou Bioaccu Mobility Ecotoxica Remark Additiona General Water ha Do not a sewage Also pois Toxic for Results o PBT: Note vPvB: Note 	<i>:</i> Toxic for fish I ecological information: I notes: azard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. Ilow undiluted product or large quantities of it to reach ground water, water bodies or	
13 Dispos	al considerations	
 Recomi Must not system. 	atment methods mendation t be disposed of together with household garbage. Do not allow product to reach sewage te code numbers mentioned are recommendations based on the probable use of the	
· Europea	an waste catalogue	
07 00 00	WASTES FROM ORGANIC CHEMICAL PROCESSES	
07 07 00	wastes from the MFSU of fine chemicals and chemical products not otherwise specified	
07 07 04*	other organic solvents, washing liquids and mother liquors	
	WASTE ORGANIC SOLVENTS, REFRIGERANTS AND PROPELLANTS (except 07 and 08)	
	waste organic solvents, refrigerants and foam/aerosol propellants	
14 06 03*	14 06 03* other solvents and solvent mixtures	

16 00 00 WASTES NOT OTHERWISE SPECIFIED IN THE LIST

- 16 03 00 off-specification batches and unused products
- 16 03 05* organic wastes containing dangerous substances

· Uncleaned packagings:

• *Recommendation:* Disposal must be made according to official regulations.

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UN-Number	
· ADR, IMDG, IATA	UN1993
UN proper shipping name · ADR	1993 FLAMMABLE LIQUID, N.O.S. (Naphtha (petroleum), hydrotreated light, ISOPROPANOL (ISOPROPYL ALCOHOL)), ENVIRONMENTALLY HAZARDOUS, special provision 640D
· IMDG · IATA	FLAMMABLE LIQUID, N.O.S. (Naphtha (petroleum), hydrotreated light, ISOPROPANOL (ISOPROPYL ALCOHOL)), MARINE POLLUTAN FLAMMABLE LIQUID, N.O.S. (Naphtha
	(petroleum), hydrotreated light, ISOPROPANOL (ISOPROPYL ALCOHOL))
Transport hazard class(es)	
· ADR	
· Class · Label	3 (F1) Flammable liquids. 3
· IMDG	
· Class · Label	3 Flammable liquids. 3
· IATA	
· Class	3 Flammable liquids. Not Restricted.
· Label	3
Packing group • ADR, IMDG, IATA	II
Environmental hazards:	Product contains environmentally hazardous substances: Naphtha (petroleum), hydrotreated ligh
• Marine pollutant:	Yes Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)
Special precautions for user · Kemler Number: · EMS Number:	Warning: Flammable liquids. 33 F-E, <u>S-E</u>
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	<i>II of</i> Not applicable.
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 Transport/Additional information: 	
· ADR · Tunnel restriction code	D/E
· UN "Model Regulation":	UN1993, FLAMMABLE LIQUID, N.O.S. (Naphtha (petroleum), hydrotreated light, ISOPROPANOL (ISOPROPYL ALCOHOL)), special provision 640D, ENVIRONMENTALLY HAZARDOUS, 3, II

15 Regulatory information

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

· Designation according to EC guidelines:

The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)

· Code letter and hazard designation of product:



F Highly flammable N Dangerous for the environment

· Hazard-determining components of labelling:

Naphtha (petroleum), hydrotreated light

· Risk phrases:

11 Highly flammable.

- 36/38 Irritating to eyes and skin.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 65 Harmful: may cause lung damage if swallowed.
- 67 Vapours may cause drowsiness and dizziness.

· Safety phrases:

- 2 Keep out of the reach of children.
- 9 Keep container in a well-ventilated place.
- 16 Keep away from sources of ignition No smoking.
- 23 Do not breathe vapour/spray.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 60 This material and its container must be disposed of as hazardous waste.
- 62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

National regulations

· Technical instructions (air):

Class	Share in %
III	50-100
NK	10-25

• *Water hazard class:* Water hazard class 1 (Self-assessment): slightly hazardous for water. • *Chemical safety assessment:* A Chemical Safety Assessment has not been carried out.

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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. May be fatal if swallowed and enters airways. H304 H315 Causes skin irritation. Causes serious eye irritation. H319 H336 May cause drowsiness or dizziness. H411 Toxic to aquatic life with long lasting effects. R11 Highly flammable. Irritating to eyes. R36 Irritating to skin. R38 R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R65 Harmful: may cause lung damage if swallowed. R67 Vapours may cause drowsiness and dizziness. · Department issuing data specification sheet: This Material Safety Data Sheet has been drawn up in cooperation with: DEKRA Consulting GmbH, Hanomagstr. 12, D-30449 Hannover, Germany Tel.: +49.511.42079-311, reach@dekra.com. · Contact: sdfsdfsdf Abbreviations and acronyms: ADR: Accord européen sur le transport 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 Harmonized System of Classification and Labelling of Chemicals DNEL: Derived No-Effect Level (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent