

Safety Data Sheet 1907/2006/EC (GB)

Revision: 13.05.2008

Publication No.
XRB228F(EN)

1 Identification of the substance / preparation and of the company

Product: TRW Brake Cleaner, 5 Liter can

Registration number: not applicable

Use: Brake Cleaner

Identified use: Cleaner

Method of operation: See product information.

Company: TRW KFZ Ausrüstung GmbH
Rudolf-Diesel-Str. 7
56566 Neuwied / Germany

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Responsible: Haensler@chemiebuero.de

2 Hazards identification

Physico-chemical hazards: See chapter 10 and R-phrases.

Human health dangers: See R-phrases.
Frequent persistent contact with the skin can cause skin irritation.
If swallowed or in the event of vomiting, risk of product entering the lungs.

Environmental hazards: See chapter 12.
See R-phrases.

Other hazards: none

Hazard symbols:



Highly flammable



Harmful



Dangerous for the environment

R-phrases:

R 11: Highly flammable.

R 38: Irritating to skin.

R 65: Harmful - may cause lung damage if swallowed.

R 67: Vapours may cause drowsiness and dizziness.

R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3 Composition / Information on ingredients

n-Hexane	2,5 - < 5%
F-Xn-N, R11-38-48/20-51/53-62-65-67 CAS: 110-54-3, EINECS/ELINCS: 203-777-6, EU-INDEX: 601-037-00-0, ECBnr:	
Naphtha (petroleum), hydrotreated light	50 - < 100%
F-Xn-N, R11-38-51/53-65-67 CAS: 64742-49-0, EINECS/ELINCS: 265-151-9, EU-INDEX: 649-328-00-1, ECBnr:	

Comment on component parts:

For the wording of the listed risk phrases refer to section 16.

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4 First aid measures

General information:

Change soaked clothing.

Inhalation:

Ensure supply of fresh air.

In the event of symptoms seek for medical treatment.

Skin contact:

In case of contact with skin wash off immediately with soap and water.

Consult a doctor if skin irritation persists.

Eye contact:

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

Ingestion:

Supply with medical care.

Do not induce vomiting.

Rinse out mouth and give plenty of water to drink.

Advice to doctor:

If swallowed or in the event of vomiting, risk of product entering the lungs.

5 Fire-fighting measures

Suitable extinguishing media:

Foam, dry powder, water spray jet, carbon dioxide.

Extinguishing media that must not be used:

Full water jet.

Special exposure hazards arising from the substance or preparation itself or combustion products:

Not combusted hydrocarbons. Carbon monoxide (CO). Unknown risk of formation of toxic pyrolysis products.

Special protective equipment for firefighters:

Use self-contained breathing apparatus.

Additional information:

Cool containers at risk with water spray jet. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

6 Accidental release measures

Personal precautions:

Keep away from all sources of ignition.

Ensure adequate ventilation.

High risk of slipping due to leakage/spillage of product.

Environmental precautions:

Prevent spread over a wide area (e.g. by containment or oil barriers).

Do not discharge into the drains/surface waters/groundwater.

Methods for cleaning up:

Take up with absorbent material (e.g. sand).

Dispose of absorbed material in accordance with the regulations.

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7 Handling and storage

Advice on safe handling:

- Provide good room ventilation even at ground level (vapours are heavier than air).
- Use solvent-resistant equipment.
- Use only in well-ventilated areas.

The dried product contains bounded silicous dusts. In the case that it will be treated afterwards by scrubbing, brushing etc suitable respiratory protective equipment or vacuuming unit has to be used.

Advice on protection against fire and explosion:

- Keep away from all sources of ignition - Refrain from smoking.
- Ignitable mixtures can be formed in the empty container.
- Take precautionary measures against static discharges.

Requirements for storage rooms and vessels:

- Provide solvent-resistant and impermeable floor.
- Prevent penetration into the ground.

Advice on storage compatibility:

- Do not store together with oxidizing agents.

Further information on storage conditions:

- Protect from heat/overheating.
- Keep container in a well-ventilated place.
- Keep container tightly closed.

8 Exposure controls / personal protection

Additional advice on system design:

- Ensure adequate ventilation on workstation.

Ingredients with occupational exposure limits to be monitored:

Naphtha (petroleum), hydrotreated light 1200mg/m ^{3*} ,	50 - < 100%
n-Hexane 20ppm*, 72mg/m ^{3*} , General remarks: 72,80,88,96	2,5 - < 5%

* LTEL: Long-term exposure limit

Respiratory protection:

- Breathing apparatus in the event of high concentrations.
- Short term: filter apparatus, filter A.

Hand protection:

- Butyl rubber, >120 min (EN 374).

Eye protection:

- Safety glasses.

Skin protection:

- Solvent-resistant protective clothing.

General protective measures:

- Do not inhale gases/vapours/aerosols.
- Avoid contact with eyes and skin.

Hygiene measures:

- Cloths contaminated with product should not be kept in trouser pockets.
- Do not eat, drink, smoke or take drugs at work.
- Wash hands before breaks and after work.
- Use barrier skin cream.

Delimitation and monitoring of the environmental exposition:

- not determinated

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9 Physical and chemical properties

Form:	liquid
Color:	colourless
Odor:	characteristic
pH-value [1%]:	not applicable
pH-value:	not applicable
Boiling point [°C]:	60
Flash point [°C]:	-26
Flammability [°C]:	not determined
Lower explosion limit:	1,0 Vol.%
Upper explosion limit:	7,3 Vol.%
Oxidizing properties:	no
Vapour pressure [kPa]:	not determined
Density [g/ml]:	0,693
Density at [°C]:	20°C
Bulk density [kg/m³]:	not applicable
Solubility in water:	immiscible
Partition coefficient [n-octanol/water]:	not determined
Viscosity:	<7mm²/s (40°C)
Relative vapour density determined in air:	not determined
Evaporation speed:	not determined
Melting point [°C]:	not determined
Autoignition temperature:	280
Decomposition temperature:	not determined

10 Stability and reactivity

Hazardous reactions:

Reactions with strong oxidizing agents. Evolution of highly flammable gases/vapours. Uncleaned empty vessels may contain product gases which can form explosive mixtures with air.

Hazardous decomposition products:

Flammable gases/vapours.

11 Toxicological information

Acute oral toxicity:	LD50: > 2000 mg/kg, Rat
Acute dermal toxicity:	LD50: > 2000 mg/kg, Rat
Acute inhalational toxicity:	not determined
Irritant effect on eye:	not determined
Irritant effect on skin:	not determined
Sensitization:	not determined
Subacute toxicity:	not determined
Chronic toxicity:	not determined
Mutagenicity:	not determined
Reproduction toxicity:	not determined
Carcinogenicity:	not determined
Experiences made in practice:	none

General remarks:

The toxicological information is based on the main components.

The product was classified on the basis of the calculation procedure of the preparation directive.

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12 Ecological information

Fish toxicity:	not determinated
Daphnia toxicity:	not determinated
Behaviour in environment compartments:	not determinated
Behaviour in sewage plant:	not applicable
Bacteria toxicity:	not determinated
Biological degradability:	not determinated
COD:	not determinated
BOD 5:	not determinated
AOX-advice:	No dangerous components.
2006/11/EC:	yes
General information:	Ecotoxicological data are not available. Do not allow to enter soil, waterways or waste water. Do not discharge product unmonitored into the environment.

13 Disposal considerations

Product:

Dispose of as hazardous waste.

Disposal in an incineration plant in accordance with the regulations of the local authorities.

Contaminated packaging:

Uncontaminated packaging may be taken for recycling.

Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended):

070704*,

14 Transport information

Classification according to ADR: UN 3295 Hydrocarbons, liquid, n.o.s. 3, II

- Classification Code: F1

- Label:



- ADR Limited Quantities: LQ4: 3I

Classification according to IMDG: UN 3295 Hydrocarbons, liquid, n.o.s. 3 II

- EMS: F-E, S-D

- Label:



- IMDG Limited Quantities: LQ: 1 I

Classification according to IATA: UN 3295 Hydrocarbons, liquid, n.o.s. 3 II

- Label:



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15 Regulatory information

Exposure scenario: not determinated
Chemical safety report: not determinated
Labelling: The product is classified and labelled in accordance within EC-directives.

Hazard symbols:



Highly flammable



Harmful



Dangerous for the environment

Contains:

Naphtha (petroleum), hydrotreated light

R-phrases:

R 11: Highly flammable.
 R 38: Irritating to skin.
 R 65: Harmful - may cause lung damage if swallowed.
 R 67: Vapours may cause drowsiness and dizziness.
 R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrases:
 S 2: Keep out of the reach of children.
 S 9: Keep container in a well-ventilated place.
 S 16: Keep away from sources of ignition - No smoking.
 S 23.3: Do not breathe vapour.
 S 24: Avoid contact with skin.
 S 29/56: Do not empty into drains. Dispose of this material and its container at hazardous or special waste collection point.
 S 62: If swallowed, do not induce vomiting. Seek medical advice immediately and show this container or label.

Special labelling:

not applicable

Authorisation, TITEL VII:

not applicable

Restrictions, TITEL VIII:

not applicable

EEC-REGULATIONS:

1967/548 (2004/73, 29. ATP); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006.

TRANSPORT-REGULATIONS:

ADR (2007); IMDG-Code (33. Amdt.); IATA-DGR (2008).

NATIONAL REGULATIONS

EH40/2005 Workplace exposure limits with amendments October 2007.

16 Other informations

R-phrases (Chapter 03):

R 67: Vapours may cause drowsiness and dizziness.
 R 65: Harmful - may cause lung damage if swallowed.
 R 62: Possible risk of impaired fertility.
 R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 R 38: Irritating to skin.
 R 11: Highly flammable.
 R 48/20: Harmful - danger of serious damage to health by prolonged exposure through inhalation.

Observe employment restrictions for people: yes

VOC (1999/13/CE): 100 %

Customs Tariff: not determinated

Cleaner (648/2004/CE) contains: >30% aliphatic hydrocarbons

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