

Revised: 20.02.2006

Publication No. XRB228E(EN)

01. Identification of the substance / preparation and of the company

TRW Brake Cleaner, 5 Liter can Product:

Brake Cleaner Use:

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

Phone: (+49) 02631-912 0 Fax: (+49) 02631-912 110 (+44) NHS 0845 46 47 **Emergency phone:** 02. Composition / Information on ingredients

EINECS/ELINCS CAS Substance Range [%] Symbol / R-phr.

n-Hexane 203-777-6 110-54-3 2,5 - < 5 N-Xn- F-11-38-48/20-51/53-62-65-67

50 - < 100 Naphtha (petroleum), hydrotreated light 265-151-9 64742-49-0 N- F-Xn-11-38-51/53-65-67

03. Hazards identification

R 11: Highly flammable. R 38: Irritating to skin. R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R 65: Harmful - may cause lung damage if swallowed. R 67: Vapours may cause drowsiness and dizziness.

04. 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.

In case of contact with eyes rinse thoroughly with plenty of water and seek Eye contact

Ingestion Do not induce vomiting. Rinse out mouth and give plenty of water to drink.

Supply with medical care.

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

05. 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:

combusted Hydrocarbons.

firefighters:

Special protective equipment for 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

Risk of formation of toxic pyrolysis products. Carbon monoxide (CO). Not

regulations.

06. Accidental release measures

Personal precautions: Ensure adequate ventillation. Keep away sources of ignition. High risk of

slipping due to leakage/spillage of product.

Do not discharge into the drains/surface waters/groundwater. Prevent **Environmental precautions:**

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

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Methods for cleaning up: Take up with absorbent material (e.g. sand). Dispose of absorbed material

in accordance with the regulations.

07. Handling and storage

Advice on safe handling: Provide good room ventilation even at ground level (vapours are heavier

than air). Use solvent-resistant equipment. Keep only in original container.

Advice on protection against fire

and explosion:

Keep away from sources of ignition - Refrain from smoking. Ignitable mixtures can form in the empty container. Take precautionary measures

against static discharges.

Requirements for storage rooms

and vessels:

conditions:

Vapours can form an explosive mixture with air. Provide solvent-resistant

and impermeable floor.

Advice on storage compatibility: Do not store together with oxidizing agents.

Further information on storage

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Keep container tightly closed. Keep container in a well-ventilated place.

Protect from heat/overheating.

08. Exposure controls / personal protection

Additional advice on system design:

Ensure adequate ventilation on workstation.

Ingredients with occupational exposure limits to be monitored: (GB)

Substance	[ppm]*	[mg/m³]*	General remarks:
Naphtha (petroleum), hydrotreated light		1200	
n-Hexane	20	72	72,80,88,96

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

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:

ng of not determinated

09. Physical and chemical properties

Form: liquid
Colour: colourless
Odour: characteristic
pH-value: not applicable
pH-value (1 %): not applicable

Boiling point [°C]: 60 Flash point [°C]: -26

Combustible properties:

Flammability [°C]: not determinated

Lower explosion limit: 1,0 Vol.% Upper explosion limit: 7,3 Vol.%

Vapour pressure [kPa]: not determinated

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0,693 20°C Density [q/ml]: Bulk density [kg/m³]: not applicable immiscible Solubility in water: Partition coefficient: nnot determinated

octanol/water:

<7mm²/s (40°C) Viscosity: Relative vapour density not determinated

determined in air:

Evaporation speed: not determinated Melting point [°C]: not determinated

Autoignition temperature [°C]: 280

Decomposition temperature [°C]: not determinated

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

OECD 401:

Rat, > 2000 mg/kg

Acute dermal toxicity

OECD 402:

Rat, > 2000 mg/kg

Acute inhalational toxicity

OECD 403:

Rat, not determinated

Experiences made in practice:

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.

12. Ecological information

not determinated Fish toxicity: Daphnia toxicity: not determinated Behaviour in environment not determinated

compartments:

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.

76/464/EC:

General information: Do not allow to enter soil, waterways or waste water. Ecotoxicological data

are not available. Do not discharge product unmonitored into the

environment.

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13. Disposal considerations

Disposal / Product: Dispose of as hazardous waste. Disposal in an incineration plant in

accordance with the regulations of the local authorities.

Waste no. (recommended): 070704*

Disposal / Contaminated Uncontaminated packaging may be taken for recycling. Packaging that

cannot be cleaned should be disposed of as for product.

14. Transport information

Classification according to

3

3

ADR:

packaging:

Declaration: UN 3295 Hydrocarbons, liquid, n.o.s., 3, II

Labelling: UN 3295

Factor (ADR 1.1.3.6): 3
LQ (ADR 3.4.6): LQ4
Hazard-no.: 33
Label: 3

Vapour pressure [kPa]: not determinated

Classification according to

IMDG:

Declaration: UN 3295, Hydrocarbons, liquid, n.o.s., 3, PG: II (-26°C c.c)

Labelling: Hydrocarbons, liquid, n.o.s., UN 3295, Class: 3

Label: 3 LQ [l, kg]: 1

EmS: F-E, S-D

Classification according to 3 II

<u>IATA:</u>

Declaration: Hydrocarbons, liquid, n.o.s., Class: 3 UN 3295 II

Labelling: Hydrocarbons, liquid, n.o.s. UN 3295

Label: Flammable Liquid

15. Regulatory information

Labelling: The product is classified and labelled in accordance within EC-directives.

Hazard symbols:



Highly flammable.



Harmful.



Contains: Naphtha (petroleum), hydrotreated light

R 11: Highly flammable. R 38: Irritating to skin. R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R 65: Harmful - may cause lung damage if swallowed. R 67: Vapours may cause drowsiness and dizziness.

S 16: Keep away from sources of ignition - No smoking. S 2: Keep out of the reach of children. 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. S 9: Keep container in a well-ventilated place.

15.1 Special labelling for certain preparations

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not applicable

15.2 Sources of documentation

EEC: 91/155 (2001/58); 67/548 (2004/73), 29. ATP; 1999/45 (2001/60); 91/689 (2001/118); 89/542; 1999/13

Transport information: ADR (2005); IMDG-Code (32.Amdt.); IATA-DGR (2006)

15.3 National regulations(gb)

EH40/2002 Occupational Exposure Limits Supplement 2003

16 Other informations

(Information on ingredients - position 02)

R 11: Highly flammable.

R 38: Irritating to skin.

R 48/20: Harmful - danger of serious damage to health by prolonged exposure through inhalation.

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

R 62: Possible risk of impaired fertility.

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

R 67: Vapours may cause drowsiness and dizziness.

16.1 Additional information:

Observe employment yes

restrictions for people:

VOC (1999/13/EG): 100 %

Customs Tariff: not determinated

16.2 Information on ingredients

UBA-Registration: not determinated

648/2004/EG, Contains:

>30% aliphatic hydrocarbons

16.3 Modified position

none