

Revised: 20.02.2006

Publication No. XRB227E(EN)

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

TRW Brake Cleaner, 500 ml Aerosol Product:

Use: Brake Cleaner

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

Substance	EINECS/ELINC	S CAS	Range [%]	Symbol / R-phr.
Carbon dioxide	204-696-9	124-38-9	1 - < 10	
Naphtha (petroleum), hydrotreated light	265-151-9	64742-49-0	50 - < 100	N- F-Xn-11-38-51/53-65-67
n-Hexane	203-777-6	110-54-3	0,1 - < 2,5	N-Xn- F-11-38-48/20-51/53-62-65-67

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 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.

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

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 none

Advice to doctor Treat symptomatically.

05. Fire-fighting measures

Foam. Dry powder. Water spray jet. Carbon dioxide. Suitable extinguishing media:

Extinguishing media that must

not be used:

Full water jet.

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

products:

Risk of formation of toxic pyrolysis products.

Special protective equipment for Use self-contained breathing apparatus.

firefighters:

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.

06. Accidental release measures

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

Environmental precautions: not applicable

Methods for cleaning up: Take up residues with absorbent material (e.g. sand, sawdust, general-

purpose binder). Take up mechanically. Dispose of absorbed material in

accordance with the regulations.

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07. Handling and storage

Advice on safe handling: Use only in well-ventilated areas. Use solvent-resistant equipment. Avoid

spilling or spraying in enclosed areas.

Advice on protection against fire

and explosion:

Keep away from sources of ignition - Refrain from smoking. Vapours can

form an explosive mixture with air.

and vessels:

Requirements for storage rooms Provide solvent-resistant and impermeable floor.

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

Further information on storage conditions:

Protect from heat/overheating. Keep in a cool place, heat causes increase

in pressure and risk of bursting.

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:	
Carbon dioxide	5000	9150	ILV	
Naphtha (petroleum), hydrotreated light		1200		
n-Hexane	20	72	72,80,88,96	

^{*} LTEL: Long-term exposure limit

Breathing apparatus in the event of high concentrations. Short term: filter Respiratory protection:

apparatus, filter A.

Hand protection: Butyl rubber, >120 min (EN 374).

Eye protection: Safety glasses. Skin protection: not applicable

Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. General protective measures:

Do not eat, drink, smoke or take drugs at work. Wash hands before Hygiene measures:

breaks and after work. Use barrier skin cream.

Delimitation and monitoring of the environmental exposition:

not determinated



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09. Physical and chemical properties

Form: aerosol Colour: clear

Odour: characteristic pH-value: not applicable pH-value (1 %): not applicable Boiling point [°C]: not applicable Flash point [°C]: not applicable Flammability [°C]: not applicable Lower explosion limit: 1,0 Vol.% Upper explosion limit: 7,3 Vol.%

Combustible properties: no

Vapour pressure [kPa]: not applicable

Density [g/ml]: 0,67

Bulk density [kg/m³]: not applicable Solubility in water: insoluble

Partition coefficient: n-

octanol/water:

not determinated

Viscosity: not applicable Relative vapour density not applicable

determined in air:

Evaporation speed: not applicable Melting point [°C]: not applicable Autoignition temperature [°C]: not applicable Decomposition temperature [°C]: not applicable

10. Stability and reactivity

Hazardous reactions: Risk of bursting. Evolution of flammable mixtures possible in air when

heated above flash point and/or during spraying or misting.

Hazardous decomposition

products:

Flammable gases/vapours.

11. Toxicological information

Acute oral toxicity

not determinated

OECD 401:

Experiences made in practice: none

General remarks: No toxicological data are available. The product was classified on the basis

of the calculation procedure of the preparation directive.

12. Ecological information

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

compartments:

Behaviour in sewage plant: not applicable
Bacteria toxicity: not determinated

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Biological degradability: not determinated COD: not determinated BOD 5: not determinated

AOX-advice: No dangerous components.

76/464/EC: yes

General information: Ecological data are not available.

13. Disposal considerations

Disposal / Product: Dispose of as hazardous waste.

Waste no. (recommended): 160504*

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

packaging: cannot be cleaned should be disposed of as for product.

14. Transport information

Classification according to 2

ADR:

Declaration: UN 1950 AEROSOLS, 2.1, Labelling: UN 1950 AEROSOLS

Factor (ADR 1.1.3.6): 3 LQ (ADR 3.4.6): LQ2

Hazard-no.:

Label: 2.1

Vapour pressure [kPa]: not applicable

Classification according to 2.1

IMDG:

Declaration: UN 1950, Aerosols, 2.1 Labelling: Aerosols, UN 1950, Class: 2.1

Label: 2.1 LQ [l, kg]: 1

EmS: F-D, S-U

Classification according to 2.1

IATA:

Declaration: Aerosols, flammable, Class; 2.1 UN 1950

Labelling: Aerosols, flammable UN 1950

Label: Flammable Gas

15. Regulatory information

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

Hazard symbols:



Highly flammable.



Irritant.

Dangerous for the environment.

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 67: Vapours may cause drowsiness and dizziness.

S 23.4: Do not breathe spray. S 29/56: Do not empty into drains. Dispose of this material and its container at hazardous or special waste collection point. S 51: Use only in well-ventilated areas.

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15.1 Special labelling for certain preparations

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of reach of children.

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): 95,76 %

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