

Safety Data Sheet

Revised: 20.02.2006

Publication No.
XRB227E(EN)

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

Product: Lucas Brake Cleaner, 500 ml Aerosol
Use: Brake Cleaner
Company: TRW KFZ Ausrüstung GmbH Rudolf-Diesel-Str. 7 56566 Neuwied
Phone: (+49) 02631-912 0
Fax: (+49) 02631-912 110
Emergency phone: (+44) NHS 0845 46 47

02. Composition / Information on ingredients

Substance	EINECS/ELINCS	CAS	Range [%]	Symbol / R-phr.
n-Hexane	203-777-6	110-54-3	0,1 - < 2,5	N-Xn- F-11-38-48/20-51/53-62-65-67
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

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 refer 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 None.
Advice to doctor Treat symptomatically.

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 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.

Safety Data Sheet

Revised: 20.02.2006

Publication No.
XRB227E(EN)

06. Accidental release measures

Personal precautions	Ensure adequate ventilation. Keep away sources of ignition.
Environmental precautions	Not applicable.
Methods for cleaning up/taking 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.

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.
Requirements for storage rooms and vessels	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/m ³]*	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

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	Not applicable.
General protective measures	Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols.
Hygiene measures	At work do not eat, drink, smoke or take drugs. Wash hands before breaks and after work. Use barrier skin cream.
Delimitation and monitoring of the environmental exposition	Not determined.

Safety Data Sheet

Revised: 20.02.2006

Publication No.
XRB227E(EN)

09. Physical and chemical properties

Form:	Aerosol.	Vapour pressure [kPa]:	Not applicable.
Colour:	Clear.	Density [g/ml]:	0,67
Odour:	Characteristic.	Bulk density [kg/m³]:	Not applicable.
pH-value:	Not applicable.	Solubility in water:	Insoluble.
pH-value, 1%	Not applicable.	Partition coefficient: n-octanol / water:	Not determined.
Boiling point [°C]:	Not applicable.	Viscosity:	Not applicable.
Flash point [°C]:	Not applicable.	Relative vapour density determined in air:	Not applicable.
Flammability:[°C]	Not applicable.	Evaporation speed:	Not applicable.
Lower explosion limit:	1,0 Vol.%	Melting point [°C]:	Not applicable.
Upper explosion limit:	7,3 Vol.%	Autoignition temperature [°C]:	Not applicable.
Combustible properties:	No.	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 OECD 401	Not determined.
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

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 packaging	Uncontaminated packaging may be taken for recycling. Packaging that cannot be cleaned should be disposed of as for product.

Safety Data Sheet

Revised: 20.02.2006

Publication No.
XRB227E(EN)

14. Transport information

Classification according to 2

ADR:

Declaration:	UN 1950 Aerosols, 2.1,
Labelling:	UN 1950 Aerosole
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 with EC directives

Hazard symbols



Highly flammable



Irritant



Dangerous for the environment

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 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.

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)

The information and recommendations in this publication are to the best of our knowledge, information and beliefs accurate at the time of publication. Nothing herein is to be construed as a warranty, express or implied. In all cases, it is the responsibility of users to determine the suitability of any products for their own particular purpose. Recommendations for use handling, protection, etc., are advisory only.

TRW KFZ-Ausrüstung GmbH, Postfach 2342, 56513 Neuwied, Rudolf-Diesel-Strasse 7, 56566 Neuwied
Tel: (02631) 912-0 Fax: (02631) 912-110 www.trw-eos.com © TRW Automotive Inc. 2005

Safety Data Sheet

Revised: 20.02.2006

 Publication No.
 XRB227E(EN)

Not determinated.

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 restrictions for people	Yes.
VOC, 1999/13/EG	95,76 %
Customs Tariff	Not determinated.

16.2 Information on ingredients (648/2004)

UBA-Registration 3214 0043

648/2004/EG, contains:

>30% aliphatic hydrocarbons

16.3 Modified position:

None.