

Safety Data Sheet 91/155/EEC

Lucas Brake Cleaner, 5 Liter can

Revised: 08.08.2002

Publication No.

Date printed: 08.08.2002

XRB228D(EN)

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

Product: Lucas Brake Cleaner, 5 Liter can
Use: Brake Cleaner
Company: TRW KFZ Ausrüstung GmbH Rudolf-Diesel-Str. 7, D-56566 Neuwied
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02. Composition / Information on ingredients

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

03. Hazards identification

R11: Highly flammable.
R38: Irritating to skin.
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.

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 Do not induce vomiting. Rinse out mouth and give plenty of water to drink. Refer for medical treatment.
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. Carbon dioxide. Dry powder. Water spray jet.
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 . Carbon monoxide (CO). Not combusted Hydrocarbons.
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.

06. Accidental release measures

Personal precautions Ensure adequate ventilation . Keep away sources of ignition. 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

07. Handling and storage

Advice on safe handling Use solvent-resistant equipment. Provide good room ventilation even at ground level (vapours are heavier than air).
Advice on protection against fire and explosion Take precautionary measures against static discharges. Keep away from sources of ignition - refrain from smoking. Ignitable mixtures can form in the empty container. Vapours can form an explosive mixture with air.

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TRW. Original Equipment. Global Service.

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08. Exposure controls / personal protection

Additional advice on system design

Ingredients with occupational exposure limits to be monitored

<u>Substance</u>	<u>CAS</u>	<u>Value:</u>
n-Hexane	110-54-3	MAK: 50ppm (Y) BAT,2000
Naphtha (petroleum), hydrotreated light	64742-49-0	MAK: 200 ppm 2000

Respiratory protection	Breathing apparatus in the event of high concentrations. Short term: filter apparatus, Filter A.
Hand protection	Plastic gloves.
Eye protection	Safety glasses.
Skin protection	Not applicable.
General protective measures	Do not inhale gases/vapours/aerosols. Avoid contact with eyes and skin.
Hygiene measures	At work do not eat, drink, smoke or take drugs. Wash hands before breaks and after work. Use barrier skin cream. Cloths contaminated with product should not be kept in trouser pockets.

09. Physical and chemical properties

Form:	Liquid.	Vapour pressure [hPa]:(20°C)	-
Colour:	Colourless.	Density [g/ml]:	0,69
Odour:	Characteristic.	Solubility in water:	Immiscible.
pH-value:	Not applicable.	Partition coefficient: n-octanol / water:	-
Boiling point [°C]:	60-95	Viscosity:	<7mm ² /s (40°C)
Flash point [°C]:	<-20	Relative vapour density determined in air	-
Flammability:	-	Melting point [°C]:	-
Lower explosion limit:	1,0 Vol. %		

10. Stability and reactivity

Hazardous reactions Evolution of highly flammable gases/vapours. Reactions with strong oxidizing agents. 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 Rat: -
Acute dermal toxicity	LD50 Rabbit: -
Acute inhalational toxicity	LC50 Rat: -

Irritant effect on eye

Sensitization / Validation

Chronic toxicity / Validation

Mutagenicity / validation

Reproduction toxicity / Validation

Carcinogenicity / Validation

Experiences made in practice None.

General remarks The product was classified on the basis of the calculation procedure of the preparation directive. No toxicological data are available.

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12. Ecological information

Biodegradable
Fish toxicity
Behaviour in sewage plant Not applicable.
AOX-advice No dangerous components.
General information Do not allow to enter soil, waterways or waste water.
Contains compounds of 76/464/EC Yes

13. Disposal considerations

Disposal / Product For recycling, consult manufacturer. Disposal in an incineration plant in accordance with the regulations of the local authorities.
Waste no. 070704*
Disposal / Contaminated packaging Uncontaminated packaging may be taken for recycling. Packaging that cannot be cleaned should be disposed of as for product.

14. Transport information

14.1 Classification according to ADR:

ADR: 3 II
Dangerous Goods Declaration: UN 3295 Hydrocarbons, liquid, n.o.s. (Solvent naphtha) 3 II ADR
Labelling UN 3295
Factor, ADR 1.1.3.6.3: 3
Hazard-no: 33
Label:



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ADR-Conditions for limited quantities(LQ): LQ4

Dangerous Goods Declaration:
Labelling UN 3295
Label:
Inner packing, max.: 3l
Total gross mass of a package: 12l

14.2 Classification according to IMDG:

IMDG-Code: Class: 3, Packing Group: II
Dangerous Goods Declaration: Hydrocarbons, liquid, n.o.s. (Solvent naphtha), Class: 3, UN 3295, II, flashpoint: <-20°C
Inscriptions: Hydrocarbons, liquid, n.o.s. (Solvent naphtha) UN 3295
Label:



IMDG-Conditions for limited quantities(LQ):

Dangerous Goods Declaration: Hydrocarbons, liquid, n.o.s. (Solvent naphtha), Class: 3, UN 3295, II, flashpoint: <-20°C, LIMITED QUANTITIES
Inscriptions: Hydrocarbons, liquid, n.o.s. (Solvent naphtha) UN 3295
Label:
Inner packing, max.: 1l
Total gross mass of a package: 30kg

14.3 Classification according to IATA:

IATA-DGR: Class: 3, Packing Group: II
Dangerous Goods Declaration: Hydrocarbons, liquid, n.o.s. (Solvent naphtha), Class: 3, UN 3295, II, flashpoint: <-20°C
Inscriptions: Hydrocarbons, liquid, n.o.s. (Solvent naphtha) UN 3295
Label:



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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

R11: Highly flammable.

R38: Irritating to skin.

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.

S16: Keep away from sources of ignition --- No smoking.

S2: Keep out of the reach of children.

S23.3: Do not breathe vapour.

S24: Avoid contact with skin.

S29/56: Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

S62: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

S9: Keep container in a well-ventilated place.

Special labelling for certain preparations

Not applicable.

National regulations

Not applicable.

16. Other informations

R phrases (Substance)

R11: Highly flammable.

R38: Irritating to skin.

R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation.

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R62: Possible risk of impaired fertility.

R65: Harmful: may cause lung damage if swallowed.

R67: Vapours may cause drowsiness and dizziness.

Regulatory information

* 91/155 (2001/58)

* 67/548 (2001/59)

* 1999/45 (2001/60)

* 91/689 (2001/118)

* 89/542

* ADR (23.07.01)

* IMDG-Code (30.Amdt.)

* IATA-DGR (2002)

* Classification according to VbF

* Water hazard class

Modified position:

Not applicable.

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TRANSPORT EMERGENCY CARD (Road)

Cargo

Hydrocarbons, liquid, n.o.s. (Solvent naphtha)

Liquid. Colour: Colourless.

Class: 3	33
II	UN 3295

Nature of hazard

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

R11: Highly flammable. R38: Irritating to skin. R65: Harmful: may cause lung damage if swallowed. R67: Vapours may cause drowsiness and dizziness. R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Personal protection

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

Plastic gloves.

Safety glasses.

Eye-wash bottle with clean water

Warning vest and handlamp for each member of vehicle crew

General actions by the driver

2 self-standing warning signs

- * Stop the engine.
- * No naked lights. No smoking.
- * Mark roads and warn other road users.
- * Inform public about dangers and instruct persons to stay on the wind side.
- * Notify police and fire brigade as soon as possible.

Police

Fire brigade

Additional and/or special actions by the driver

- * Pay attention to self-protection!
- * Take up with absorbent material (e.g. sand).
- * Dispose of absorbed material in accordance with the regulations.
- *
- *
- * Do not allow to enter soil, waterways or waste water.
- * Consult an expert.

Equipment

- Cover for sewers and drains
- Shovel - Broom
- collecting container

Fire

- * Only extinguish originating fires
- * Do not extinguish load-fire

First Aid

- * 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 Do not induce vomiting. Rinse out mouth and give plenty of water to drink. Refer for medical treatment.

Additional information

Lucas Brake Cleaner, 5 Liter can

Telephone:

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XR228D(EN)

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Highly flammable



Irritant



Dangerous for the environment

contains: Naphtha (petroleum), hydrotreated light

R11: Highly flammable. R38: Irritating to skin. R65: Harmful; may cause lung damage if swallowed. R67: Vapours may cause drowsiness and dizziness. R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S2: Keep out of the reach of children. S9: Keep container in a well-ventilated place. S16: Keep away from sources of ignition --- No smoking. S23.3: Do not breathe vapour. S24: Avoid contact with skin. S29/56: Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. S62: If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

UBA: 3214 0043

89/542/EWG, contains: > 30% atiphatic hydrocarbons

[Verpackungsgröße(n)]

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Ausführungshinweise zur Kennzeichnung gem. EU RL

Verpackungs-Größe	mindest Kennzeichnungsformat	Symbolgröße	kinderges. Verschluss	ertastbarer Warnhinweis
	74mm x 105mm Ausnahmen: Nicht relevant.	nicht relevant	ja	ja
5l(XRB228D(D))	74mm x 105mm Ausnahmen: Nicht relevant.	27,9mm x 27,9mm (777mm²)	ja	ja
5l(XRB228D(EN))	74mm x 105mm Ausnahmen: Nicht relevant.	27,9mm x 27,9mm (777mm²)	ja	ja

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