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Revision: 29.01.2007 Replaces the version of: 21.09.2005 PDF date: 21.05.2007

Engine Cleaner 300ml

Art.: 089023

## Safety Data Sheet according to EC-Regulation 91/155/EEC

### 1. Identification of the substance/preparation and of the company/undertaking

#### Identification of the substance or preparation

**Engine Cleaner 300ml****Art.: 089023**

#### Use of the substance/preparation

Refer to description of material or preparation.

#### Company/undertaking identification

Würth UK Ltd 1 Centurion Way, Erith, UK-DA18 4AE Kent

Telephone 020 8319 6000, Fax 020 8319 6400

Distributor: see point 16 of this EC safety data sheet

#### Emergency telephone / Office for advice

##### Advisory office in case of poisoning:

Tel.: +49 30 / 19240 Berlin

##### Telephone number of the company in case of emergencies:

Tel. 020 8319 6000 (08-00 h - 18-00 h)

### REGULATION (EC) No 648/2004

less than 5 %

non-ionic surfactants

5 % or over but less than 15 %

aromatic hydrocarbons

30 % and more

aliphatic hydrocarbons

### 2. Composition/information on ingredients

Aerosol

2.1 Chemical name	content %	symbol	R-phrases	EINECS, ELINCS
Kerosine (petroleum)	20 - 50	Xn	65-66	232-366-4
Naphtha (petroleum), hydrotreated heavy	20 - 50	Xn	10-65-66	265-150-3
Lauryl alcohol polyglycol ether	0,1 -< 2,5	Xi/N	41-51-53	

For complete wording of the R-phrases, refer to point 16.

### 3. Hazards identification

#### 3.1 To people

See point 11 and 15.

Preparation is classified as hazardous in the sense of directive 1999/45/EC.

Product is extremely flammable.

Danger of bursting (explosion) when heated.

When using: development of explosive vapour/air mixture possible.

#### 3.2 To the environment

See point 12.

Hydrocarbons can be harmful to water.

### 4. First aid measures

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#### 4.1 Inhalation

Supply person with fresh air and consult doctor according to symptoms.  
Keep Data Sheet available.

#### 4.2 Eye contact

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

#### 4.3 Skin contact

Wash thoroughly with soap and copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.), consult doctor.

#### 4.4 Ingestion

Consult doctor immediately - keep Data Sheet available.

Do not induce vomiting.

Danger of aspiration.

#### 4.5 Special resources necessary for first aid

Indications for the physician:

Symptomatic treatment

### 5. Fire-fighting measures

#### 5.1 Suitable extinguishing media

Foam

Dry extinguisher

CO2

Water jet spray

Cool container at risk with water.

#### 5.2 Extinguishing media which must not be used for safety reasons

High volume water jet

#### 5.3 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

In case of fire the following can develop:

Danger of bursting (explosion) when heated.

Dangerous vapours heavier than air.

#### 5.4 Special protective equipment for fire-fighters

Protective respirator with independent air supply

#### 5.5 Further information

Dispose of contaminated extinction water according to official regulations.

### 6. Accidental release measures

Refer to point 13. and for personal protection refer to point 8.

#### 6.1 Personal precautions

Avoid inhalation, and contact with eyes or skin.

Remove possible causes of ignition - do not smoke.

Ensure sufficient supply of air.

#### 6.2 Environmental measures

Prevent surface and ground-water infiltration, as well as ground penetration.

#### 6.3 Methods for cleaning up

Collect using absorbant material (e.g. Universal binding medium, sand, kieselguhr) and dispose of according to point 13.

### 7. Handling and storage

#### 7.1 Handling

##### Tips for safe handling:

See point 6.1

Keep away from sources of ignition - Do not smoke.

Ensure good ventilation.

Use working methods according to operating instructions.

#### 7.2. Storage

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### Requirements for storage rooms and containers:

Not to be stored in gangways or stair wells.  
 Observe special regulations for aerosols.  
 Do not store with pyrotechnic articles.

### Special storage conditions:

See point 10.2  
 Storage time: Maximum > 24 months.  
 Keep protected from direct sunlight and temperatures over 50°C.  
 Store at room temperature.

## 8. Exposure controls/personal protection

<b>GB</b>	<b>Chemical Name</b>	Kerosine (petroleum)	
	WEL-TWA: ** 70 ppm (350 mg/m <sup>3</sup> ) (AGW)	WEL-STEL: ** 4 (AGW)	---
	BMGV: ---	Other information: ---	
<b>IRL</b>	<b>Chemical Name</b>	Kerosine (petroleum)	
	WEL-TWA: ** 70 ppm (350 mg/m <sup>3</sup> ) (AGW)	WEL-STEL: ** 4 (AGW)	---
	BMGV: ---	Other information: ---	
<b>GB</b>	<b>Chemical Name</b>	Naphtha (petroleum), hydrotreated heavy	
	WEL-TWA: ** 200 ppm (1000 mg/m <sup>3</sup> ) (AGW)	WEL-STEL: ** 4 (AGW)	---
	BMGV: ---	Other information: ---	
<b>IRL</b>	<b>Chemical Name</b>	Naphtha (petroleum), hydrotreated heavy	
	WEL-TWA: ** 200 ppm (1000 mg/m <sup>3</sup> ) (AGW)	WEL-STEL: ** 4 (AGW)	---
	BMGV: ---	Other information: ---	
<b>GB</b>	<b>Chemical Name</b>	Butane	
	WEL-TWA: 600 ppm (1450 mg/m <sup>3</sup> )	WEL-STEL: 750 ppm (1810 mg/m <sup>3</sup> )	---
	BMGV: ---	Other information: ---	
<b>IRL</b>	<b>Chemical Name</b>	Butane	
	WEL-TWA: 600 ppm (1450 mg/m <sup>3</sup> )	WEL-STEL: 750 ppm (1810 mg/m <sup>3</sup> )	---
	BMGV: ---	Other information: ---	
<b>IRL</b>	<b>Chemical Name</b>	Propane	
	WEL-TWA: ---	WEL-STEL: ---	---
	BMGV: ---	Other information: ---	
<b>GB</b>	<b>Chemical Name</b>	Oil mist, mineral	
	WEL-TWA: 5 mg/m <sup>3</sup> (ACGIH)	WEL-STEL: 10 mg/m <sup>3</sup> (ACGIH)	---
	BMGV: ---	Other information: ---	
<b>IRL</b>	<b>Chemical Name</b>	Oil mist, mineral	
	WEL-TWA: 5 mg/m <sup>3</sup> (ACGIH)	WEL-STEL: 10 mg/m <sup>3</sup> (ACGIH)	---
	BMGV: ---	Other information: ---	
<b>GB</b>	<b>Chemical Name</b>	n-butyl acetate	
	WEL-TWA: 150 ppm (724 mg/m <sup>3</sup> )	WEL-STEL: 200 ppm (966 mg/m <sup>3</sup> )	---
	BMGV: ---	Other information: ---	
<b>IRL</b>	<b>Chemical Name</b>	n-butyl acetate	
	WEL-TWA: 150 ppm (724 mg/m <sup>3</sup> )	WEL-STEL: 200 ppm (966 mg/m <sup>3</sup> )	---
	BMGV: ---	Other information: ---	

**GB** WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.  
 \*\* = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

**IRL** OELV-8h = Occupational Exposure Limit Value (8-hour reference period) | OELV-15min = Occupational Exposure Limit Value (15-minute reference period) | BLV = Biological limit value | Other information: C1, C2 = carcinogenic substance, Cat. 1 or 2. Mut 1, 2

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= mutagenic substance, Cat. 1 or 2. Repr 1, 2 = Substances known to be toxic for reproduction, Cat. 1 or 2. Sk = can be absorbed through skin. Asphyx = asphyxiant. Sen = Respiratory sensitizer.

\*\* = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

Respiratory protection:

Normally not necessary.

If OES or MEL is exceeded.

Gas mask filter A (EN 141)

Hand protection:

Normally not necessary.

Protective nitrile gloves (EN 374)

Permeation time (penetration time) in minutes:

> 480

Eye protection:

Normally not necessary.

Skin protection:

Usual protective working garments

Additional information on hand protection - No tests have been performed.

Selection made for preparations according to the best available knowledge and information on the ingredients.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of preparations the resistance of glove materials cannot be calculated in advance so it has to be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

## 9. Physical and chemical properties

Physical state:	Aerosol
Propellant gas:	
Butane	
Propane	
Colour:	Colourless
Odour:	Characteristic
pH-value undiluted:	n.av.
Boiling point/range (°C):	n.av.
Melting point/range (°C):	n.av.
Flash point (°C):	n.a.
Oxidising properties:	No, GefStoffV
Minimum limit of explosion:	0,6 Vol% *
Maximum limit of explosion:	7,0 Vol% *
Pressure:	
P/20°C ~ 2,1-2,5bar, P/50°C ~ 3,9-4.3bar	
Density (g/ml):	~ 0,72 g/cm <sup>3</sup> /20°C
Solubility in water:	Emulsion
Partition coefficient (n-octanol/water):	n.c.
Viscosity:	n.c.

## 10. Stability and reactivity

### Conditions to avoid

See point 7

Pressure increase will result in danger of bursting.

Pressurized container:

protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

### Materials to avoid

See point 7

### Hazardous decomposition products

See point 5.3

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## 11. Toxicological information

### Acute toxicity and immediate effects

Ingestion, LD50 rat oral (mg/kg):	n.av.
Inhalation, LC50 rat inhal.(mg/l/4h):	n.av.
Skin contact, LD50 rat dermal (mg/kg):	n.av.
Eye contact:	Slightly irritant

### Delayed and chronic effects

Sensitization:	n.c.
Carcinogenicity:	n.c.
Mutagenicity:	n.c.
Reproductive toxicity:	n.c.
Narcosis:	n.c.

### Further information

Classification according to calculation procedure.

The following may occur:

Irritation of the skin.

Harmful:

may cause lung damage if swallowed.

## 12. Ecological information

Water hazard class (Germany):

2

Self classification:

Yes (VwVwS)

Persistence and degradability:

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Readily biodegradable

Behaviour in sewage plants:

Problems not expected when used correctly.

AOX:

No

Aquatic toxicity:

Toxicity to fish:

LC50 Oncorhynchus mykiss > 41,4 mg/l \*

Ecological toxicity:

n.av.

Mobility:

n.av.

Accumulation:

Concentration in organisms possible.

\* Kerosine (petroleum)

## 13. Disposal considerations

### 13.1. for the material / preparation / residue

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2001/118/EC, 2001/119/EC, 2001/573/EC)

16 05 04 gases in pressure containers (including halons) containing dangerous substances

Recommendation:

Pay attention to local and national official regulations

Soaked polluted cloths, paper or other organic materials represent a fire hazard and should be controlled, collected and disposed of.

Implement substance recycling.

E.g. suitable incineration plant.

### 13.2 for contaminated packing material

See point 13.1

Pay attention to local and national official regulations

Implement substance recycling.

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## 14. Transport information

### General statements

UN-Number: 1950

### Road/Rail-transport (ADR/RID)

Class/packing-group: 2/- 

UN 1950 AEROSOLS

Classification code: 5F

LQ: 2

### Transport by sea

IMDG-code: 2.1/- (class/packing-group)

EmS: F-D, S-U 

Marine Pollutant: n.a.

AEROSOLS

### Transport by air

IATA: 2.1/-/ (class/secondary danger/packing-group)


Aerosols, flammable

### Additional information:

Danger code and packing code on request.

## 15. Regulatory information

### Classification according to Dangerous Product Regulations incl. EC Directives (67/548/EEC and 1999/45/EC)

Symbols: F+ 

Indications of danger: Extremely flammable

R-phrases:

12 Extremely flammable.

Without adequate ventilation, formation of explosive mixtures may be possible.

S-phrases:

23.f Do not breathe vapour/spray.

24 Avoid contact with skin.

35 This material and its container must be disposed of in a safe way.

51 Use only in well-ventilated areas.

Additions:

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 the reach of children.

Observe restrictions: Yes

Observe restrictive guidelines 76/769/EEC, 1999/51/EC, 1999/77/EC

VOC 1999/13/EC 710g/l

## 16. Other information

These details refer to the product as it is delivered.

Storage class VCI (Germany): 2 B

Revised points: 2, 8, 12

The following phrases represent the prescribed R-phrases for the ingredients (designated in point 2).

65 Harmful: may cause lung damage if swallowed.

65 Also harmful: may cause lung damage if swallowed.

66 Repeated exposure may cause skin dryness or cracking.

10 Flammable.

41 Risk of serious damage to eyes.

51 Toxic to aquatic organisms.

53 May cause long-term adverse effects in the aquatic environment.

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### Legend:

n.a. = not applicable / n.v., k.D.v. = n.av. = not available / n.g. = n.c. = not checked

WEL = Workplace Exposure Limit EH40, TWA = Long-term exposure limit (8-hour TWA (= time weighted average) reference

period), STEL = Short-term exposure limit (15-minute reference period) / BMGV = Biological monitoring guidance value EH40

AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany) / BGW = "Biologischer Grenzwert" (biological limit value, Germany)

VbF = Regulations for flammable liquids (Austria)

WGK = water hazard class (Germany) - WGK 3 = very hazardous, WGK 2 = hazardous, WGK 1 = slightly hazardous to water

VOC = Volatile organic compounds / AOX = Adsorbable organic halogen compounds

VwVwS = Administrative Order relating to substances hazardous to water (Germany)

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.

These statements were made by:

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