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HHS 2000 500ml
Art.: 0893106

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

HHS 2000 500ml

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Use of the substance/preparation

Universal synthetic pressure resistant lubricant

Company/undertaking identification

Wurth 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)

2. Composition/information on ingredients

Aerosol

2.1 Chemical name	content %	symbol	R-phrases	EINECS, ELINCS
Naphtha (petroleum), hydrotreated light	30 - 60	F/Xn/Xi/N	11-38-51-53-65-67	265-151-9
Butane	20 - 50	F+	12	203-448-7
Propane	5 - 30	F+	12	200-827-9

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.

Irritation of the skin.

Vapours may cause drowsiness and dizziness

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

Danger of bursting (explosion) when heated.

3.2 To the environment

See point 12.

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

4. First aid measures

4.1 Inhalation

Supply person with fresh air and consult doctor according to symptoms.

4.2 Eye contact

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

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4.3 Skin contact

Wash thoroughly with soap and water.

Remove contaminated clothing immediately.

4.4 Ingestion

Rinse the mouth thoroughly with water.

Consult doctor immediately - keep Data Sheet available.

Do not induce vomiting.

4.5 Special resources necessary for first aid

n.c.

5. Fire-fighting measures

5.1 Suitable extinguishing media

Foam

Dry extinguisher

CO2

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:

Explosive vapour/air mixture

Danger of bursting (explosion) when heated.

Oxides of carbon

5.4 Special protective equipment for fire-fighters

According to size of fire

Protective respirator with independent air supply

Full protection, if necessary

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

Remove possible causes of ignition - do not smoke.

Ensure sufficient supply of air.

Avoid inhalation, and contact with eyes or skin.

6.2 Environmental measures

If leakage occurs, dam up.

Avoid release to the environment.

6.3 Methods for cleaning up

If spray or gas escapes, ensure ample fresh air is available.

Active substance:

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.

Observe directions on label and instructions for use.

7.2. Storage

Requirements for storage rooms and containers:

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Not to be stored in gangways or stair wells.

Observe special regulations for aerosols.

Do not store with oxidizing agents.

Do not store with acids.

Special storage conditions:

See point 10.2

Keep protected from direct sunlight and temperatures over 50°C.

Only store at temperatures from 5°C to 30°C

8. Exposure controls/personal protection

Chemical Name	Naphtha (petroleum), hydrotreated light		
WEL-TWA: ** 170 ppm (600 mg/m3) (AGW)	WEL-STEL: ** 4 (AGW)	---	
BMGV: ---	Other information: ---		

Chemical Name	Naphtha (petroleum), hydrotreated light		
WEL-TWA: ** 170 ppm (600 mg/m3) (AGW)	WEL-STEL: ** 4 (AGW)	---	
BMGV: ---	Other information: ---		

Chemical Name	Butane		
WEL-TWA: 600 ppm (1450 mg/m3)	WEL-STEL: 750 ppm (1810 mg/m3)	---	
BMGV: ---	Other information: ---		

Chemical Name	Butane		
WEL-TWA: 600 ppm (1450 mg/m3)	WEL-STEL: 750 ppm (1810 mg/m3)	---	
BMGV: ---	Other information: ---		

Chemical Name	Propane		
WEL-TWA: ---	WEL-STEL: ---	---	
BMGV: ---	Other information: ---		

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.

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 = mutagenic substance, Cat. 1 or 2. Repro 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.

Filter AX P3 (EN 141)

Hand protection:

Protective nitrile gloves (EN 374)

Protective hand cream recommended.

Eye protection:

With danger of contact with eyes

Tight fitting protective goggles with side protection (EN 166).

Skin protection:

Protective working garments (e.g. safety shoes EN 344, long-sleeved 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

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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:	Yellow, Brown
Odour:	Characteristic
pH-value undiluted:	n.av.
Boiling point/range (°C):	n.av.
Melting point/range (°C):	n.av.
Flash point (°C):	n.a.
Flammability (solid/gas):	Yes
Autoflammability:	n.a.
Oxidising properties:	n.a.
Minimum limit of explosion:	1,1 Vol%
Maximum limit of explosion:	10 Vol %
Vapour pressure:	3,0bar +- 0,3/20°C, < 8,0bar/50°C
Density (g/ml):	0,66 +- 0,006
Solubility in water:	Insoluble

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

Avoid contact with other chemicals.

Avoid contact with strong oxidizing agents.

Hazardous decomposition products

None known

11. Toxicological information

Acute toxicity and immediate effects

Ingestion, LD50 rat oral (mg/kg):

n.av.

Inhalation, LC50 rat inhal.(mg/l/4h):

k.D.v., See point 15.

Skin contact, LD50 rat dermal (mg/kg):

k.D.v., Irritant

Eye contact:

n.av.

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 eyes

12. Ecological information

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Water hazard class (Germany):	1
Self classification:	Yes (VwVwS)
Persistence and degradability:	n.av.
Behaviour in sewage plants:	n.av.
According to the recipe, contains no AOX.	
Aquatic toxicity:	n.av.
Ecological toxicity:	n.av.

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

E.g. suitable incineration plant.

13.2 for contaminated packing material

See point 13.1

Pay attention to local and national official regulations

15 01 04 metallic packaging

15 01 01 paper and cardboard packaging

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+/Xi/N

Indications of danger:

Extremely flammable

Irritant

Dangerous for the environment

R-phrases:

12 Extremely flammable.

38 Irritating to skin.

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

67 Vapours may cause drowsiness and dizziness.

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

S-phrases:

23.c Do not breathe spray.

29/35 Do not empty into drains; dispose of this material and its container in a safe way.

51 Use only in well-ventilated areas.

61 Avoid release to the environment. Refer to special instructions/safety data sheets.

Additions: n.a.

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-CH 75,11%

16. Other information

These details refer to the product as it is delivered.

Storage class VCI (Germany): 2 B

Revised points: n.a.

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

11 Highly flammable.

38 Irritating to skin.

51 Toxic to aquatic organisms.

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

65 Harmful: may cause lung damage if swallowed.

65 Also harmful: may cause lung damage if swallowed.

67 Vapours may cause drowsiness and dizziness.

12 Extremely flammable.

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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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