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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision: 27.09.2010 Replaces the version of: 26.08.2010 PDF date: 29.09.2010
 3-IN-ONE professional White Lithium Grease

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

Identification of the substance or mixture / Product identifier

3-IN-ONE professional White Lithium Grease

Use of the substance/mixture

Lubricant

Relevant identified uses of the substance or mixture:

n.av.

Uses advised against:

n.av.

Company/undertaking identification / Details of the supplier of the safety data sheet

WD40 Company Limited UK, PO Box 440 , Kiln Farm, Milton Keynes, MK11 3LF
 Telephone 01908 555400, Fax 01908 266900
 info@wd40.co.uk

E-mail address of the competent person: info@chemical-check.de, k.schnurbusch@chemical-check.de

Emergency telephone

Advisory office in case of poisoning:

Tel.:

Telephone number of the company in case of emergencies:

Tel. +49 (0) 700 / 24 112 112 (WDC)

Supplied by:

RS Components Ltd,
 Birchington Road, Corby, Northants, NN17 9RS.
 Tel: +44 (0) 1536 402888 (8am to 8pm)
 Email: technical.help@rs-components.com

SECTION 2: Hazards identification

To people

See point 11 and 15.

The mixture is classified as dangerous in the terms of the directive 1999/45/EC.

Product is extremely flammable.

66 Repeated exposure may cause skin dryness or cracking.

May produce an allergic reaction.

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.

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

Danger of bursting (explosion) when heated

To the environment

See point 12.

SECTION 3: Composition/information on ingredients

Aerosol

3.1 Substance

n.a.

3.2 Mixture

Distillates (petroleum), hydrotreated light	
Registration number (ECHA)	-
Index	649-422-00-2
EINECS, ELINCS	265-149-8
CAS	CAS 64742-47-8

content %	20 - 30
Symbol	Xn
R-phrases	65-66
Classification categories / Indications of danger	Harmful

Isoalkanes (C11 - C15)	
Registration number (ECHA)	-
Index	---
EINECS, ELINCS	292-460-6
CAS	CAS 90622-58-5
content %	5 - 15
Symbol	Xn
R-phrases	65-66
Classification categories / Indications of danger	Harmful

(R)-p-mentha-1,8-diene	
Registration number (ECHA)	-
Index	601-029-00-7
EINECS, ELINCS	227-813-5
CAS	CAS 5989-27-5
content %	0,1 -< 0,25
Symbol	Xi/N
R-phrases	10-38-43-50-53
Classification categories / Indications of danger	Dangerous for the environment, Flammable, Irritant, Sensitizing

For complete wording of the R-phrases / H-phrases (GHS/CLP), refer to point 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation

Remove person from danger area.

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

If the person is unconscious, place in a stable side position and consult a doctor.

Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

Eye contact

Remove contact lenses.

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

Ingestion

Typically no exposure pathway.

Rinse the mouth thoroughly with water.

Do not induce vomiting - give copious water to drink. Consult doctor immediately.

Danger of aspiration

In case of vomiting, keep head low so that the stomach content does not reach the lungs.

4.2 Most important symptoms and effects, both acute and delayed

n.av.

4.3 Indication of any immediate medical attention and special treatment needed

n.c.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

CO2

Extinction powder

Water jet spray

Alcohol resistant foam

Cool container at risk with water.

Unsuitable extinguishing media

High volume water jet

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5.2 Special hazards arising from the substance or mixture combustion products, resulting gases

In case of fire the following can develop:

Oxides of carbon

Toxic pyrolysis products.

Danger of explosion by prolonged heating.

Explosive vapour/air mixture

Dangerous vapours heavier than air.

In case of spreading near the ground, flashback to distance sources of ignition is possible.

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary

Dispose of contaminated extinction water according to official regulations.

SECTION 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.

If applicable, caution - risk of slipping

6.2 Environmental precautions

Prevent penetration into drains, cellars, working pits or other places in which accumulation could be hazardous.

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

If accidental entry into drainage system occurs, inform responsible authorities.

6.3 Methods for cleaning up

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

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

Active substance:

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

SECTION 7: Handling and storage

7.1 Handling

Tips for safe handling:

See point 6.1

Ensure good ventilation.

Avoid inhalation of the vapours.

Avoid contact with eyes or skin.

Keep away from sources of ignition - Do not smoke.

Take measures against electrostatic charging, if appropriate.

Do not use on hot surfaces.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

7.2. Storage

Requirements for storage rooms and containers:

Not to be stored in gangways or stair wells.

Store product closed and only in original packing.

Do not store with flammable or self-igniting materials.

Observe special regulations for aerosols!

Special storage conditions:

See point 10

Store cool

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

Store in a well ventilated place.

Observe special storage conditions (in Germany, e.g., in accordance with the regulations in the "Betriebssicherheitsverordnung").

SECTION 8: Exposure controls/personal protection

8.1 Exposure limit values

Chemical Name	Distillates (petroleum), hydrotreated light		Content %: 20 - 30
WEL-TWA: 100 mg/m3 (AGW)	WEL-STEL: 2(II) (AGW)	---	
BMGV: ---	Other information: ---		
Chemical Name	Isoalkanes (C11 - C15)		Content %: 5 - 15
WEL-TWA: 1200 mg/m3 (normal and branched chain >= C7) (WEL), 600 mg/m3 (AGW)	WEL-STEL: 2(II) (AGW)	---	
BMGV: ---	Other information: ---		
Chemical Name	Petroleum gases, liquified		Content %:
WEL-TWA: 1000 ppm (1750 mg/m3) (Liquefied petroleum gas (LPG))	WEL-STEL: 1250 ppm (2180 mg/m3) (Liquefied petroleum gas (LPG))	---	
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.

8.2 Exposure controls

8.2.1 Occupational exposure controls

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.
 General hygiene measures for the handling of chemicals are applicable.
 Wash hands before breaks and at end of work.
 Keep away from food, drink and animal feedingstuffs.
 Respiratory protection:
 Normally not necessary.
 If OES or MEL is exceeded.
 Filter A2 P2 (EN 14387), code colour brown, white
 At high concentrations:
 Respiratory protection appliance (insulation device) (e.g. EN 137 or EN 138)
 Observe wearing time limitations for respiratory protection equipment.
 Hand protection:
 Solvent resistant protective gloves (EN 374).
 If applicable
 Protective Neopren gloves (EN 374).
 Protective nitrile gloves (EN 374)
 Protective hand cream recommended.
 Eye protection:
 Tight fitting protective goggles with side protection (EN 166).
 Skin protection:
 Protective working garments (e.g. safety shoes EN ISO 20345, 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 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.

8.2.2 Environmental exposure controls

n.av.

SECTION 9: Physical and chemical properties

9.1 General information

Physical state:	Aerosol
Colour:	White
Odour:	Characteristic

9.2. Important health, safety and environmental information

pH-value undiluted:	Not detected
Boiling point/boiling range (°C):	Not specified
Melting point/melting range (°C):	Not detected
Flash point (°C):	n.a.
Oxidising properties:	No
Minimum limit of explosion:	Not detected
Maximum limit of explosion:	Not detected
Product is not explosive.	
Possible build up of explosive/highly flammable vapour/air mixture.	
Vapour pressure:	Not detected
Density (g/ml):	Not detected
Water solubility:	Not miscible
Vapour density (air = 1):	Vapours heavier than air.

SECTION 10: Stability and reactivity

Conditions to avoid

See point 7
 Stable when handled and stored correctly.
 Heating, open flame, ignition sources
 Pressure increase will result in danger of bursting.

Materials to avoid

Avoid contact with strong oxidizing agents.

Hazardous decomposition products

No decomposition when used as directed.

SECTION 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):	See point 15.
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

The product was not tested.
 Classification according to calculation procedure.
 The following may occur:
 Irritation of the respiratory tract
 Coughing
 Headaches
 Dizziness
 Effects/damages the central nervous system
 Coordination disorders
 with long-term contact:
 Product removes fat.
 Drying of the skin.
 Dermatitis (skin inflammation)
 Allergic reaction possible.

Ingestion:
 Nausea
 Vomiting
 Danger of aspiration
 Oedema of the lungs
 Other dangerous properties cannot be ruled out.

SECTION 12: Ecological information

The product was not tested.
 Persistence and degradability:
 Not readily biodegradable *
 Behaviour in sewage plants: Isolate as much as possible with an oil separator.
 According to the recipe, contains no AOX.
 Aquatic toxicity: n.av.
 Ecological toxicity: n.av.
 Mobility: n.av.
 Accumulation: n.av.
 * Distillates (petroleum), hydrotreated light
 Results of PBT assessment
 n.av.
 Other adverse effects: n.av.

SECTION 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)
 07 06 99 wastes not otherwise specified
 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
 Recommendation:
 Do not perforate, cut up or weld uncleaned container.
 Recycling
 15 01 04 metallic packaging

SECTION 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
 Tunnel restriction code: D

Transport by sea

IMDG-code: 2.1/- (class/packing group)
 EmS: F-D, S-U 
 Marine Pollutant: n.a

Transport by air

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

Aerosols, flammable

Additional information:

Danger code and packing code on request. 

SECTION 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:

66 Repeated exposure may cause skin dryness or cracking.

S-phrases:

23 Do not breathe vapour/spray.

24 Avoid contact with skin.

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

46 If swallowed, seek medical advice immediately and show this container or label.

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.

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

Contains

(R)-p-mentha-1,8-diene

May produce an allergic reaction.

Observe restrictions:

Yes

Observe youth employment law (German regulation).

VOC (1999/13/EC):

n.v.

SECTION 16: Other information

These details refer to the product as it is delivered.

EUF0007

Revised points:

3, 15

The following phrases represent the prescribed R-phrases / H-phrases (GHS/CLP) for the ingredients (designated in point 3).

65 Harmful: may cause lung damage if swallowed.

66 Repeated exposure may cause skin dryness or cracking.

10 Flammable.

38 Irritating to skin.

43 May cause sensitization by skin contact.

50 Very toxic to aquatic organisms.

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

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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