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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision: 26.08.2010 Replaces the version of: 17.03.2010 PDF date: 31.08.2010
 3-IN-ONE with PTFE Aerosol

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance or preparation

3-IN-ONE with PTFE Aerosol

Use of the substance/preparation

Lubricant

Company/undertaking identification

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

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

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)

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.

Extremely flammable

66 Repeated exposure may cause skin dryness or cracking.

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.

To the environment

See point 12.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Aerosol

Naphtha (petroleum), hydrotreated heavy	
Registration number (ECHA)	-
Index	649-327-00-6
EINECS, ELINCS	265-150-3
CAS	CAS 64742-48-9
content %	50 - 70
Symbol	Xn
R-phrases	10-65-66
Classification categories / Indications of danger	Flammable, Harmful
Carbon dioxide	Substance for which an EU exposure limit value applies.
Registration number (ECHA)	-
Index	---
EINECS, ELINCS	204-696-9

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CAS	CAS 124-38-9
content %	1 - 5
Symbol	---
R-phrases	---
Classification categories / Indications of danger	

2-(2-butoxyethoxy)ethanol	
Registration number (ECHA)	-
Index	603-096-00-8
EINECS, ELINCS	203-961-6
CAS	CAS 112-34-5
content %	1 - 5
Symbol	Xi
R-phrases	36
Classification categories / Indications of danger	Irritant

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

4. FIRST AID MEASURES

4.1 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.
 Respiratory arrest - Artificial respiration apparatus necessary.

Symptoms:

Fatigue

Mental confusion

4.2 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.

Symptoms:

Irritation of the skin.

4.2 Eye contact

Remove contact lenses.

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

Symptoms:

Irritation of the eyes

Watering eyes

4.4 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.

Immediate admittance to a hospital.

Symptoms:

Headaches

Nausea

4.5 Special resources necessary for first aid

n.c.

5. FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

CO2

Dry extinguisher

Water jet spray

Alcohol resistant foam

Cool container at risk with water.

5.2 Extinguishing media which shall 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:
Oxides of carbon
Oxides of nitrogen
Toxic pyrolysis products.
Danger of bursting (explosion) when heated
Explosive vapour/air mixture

5.4 Special protective equipment for fire-fighters

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

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 contact with eyes or skin.
If applicable, caution - risk of slipping

6.2 Environmental precautions

Prevent surface and ground-water infiltration, as well as ground penetration.
Prevent penetration into drains, cellars, working pits or other places in which accumulation could be hazardous.
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.

7. HANDLING AND STORAGE

7.1 Handling

Tips for safe handling:

See point 6.1
Ensure good ventilation.
Avoid inhalation of the vapours.
Keep away from sources of ignition - Do not smoke.
Take measures against electrostatic charging, if appropriate.
Do not use on hot surfaces.
Avoid contact with eyes or skin.
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:

Store product closed and only in original packing.
Not to be stored in gangways or stair wells.
Do not store with oxidizing agents.
Observe special regulations for aerosols!

Special storage conditions:

See point 10
Observe special storage conditions (in Germany, e.g., in accordance with the regulations in the "Betriebssicherheitsverordnung").
Keep protected from direct sunlight and temperatures over 50°C.
Store in a well ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure limit values

Chemical Name	Naphtha (petroleum), hydrotreated heavy	Content %:50 - 70
WEL-TWA: 1200 mg/m ³ (normal and branched chain >= C7) (WEL), 600 mg/m ³ (AGW)	WEL-STEL: 2(II) (AGW)	---
BMGV: ---	Other information: ---	
Chemical Name	Carbon dioxide	Content %:1 - 5
WEL-TWA: 5000 ppm (9150 mg/m ³) (WEL), 5000 ppm (9000 mg/m ³) (EC)	WEL-STEL: 15000 ppm (27400 mg/m ³) (WEL)	---
BMGV: ---	Other information: ---	
Chemical Name	2-(2-butoxyethoxy)ethanol	Content %:1 - 5
WEL-TWA: 10 ppm (67,5 mg/m ³) (WEL, EC)	WEL-STEL: 15 ppm (101,2 mg/m ³) (WEL, EC)	---
BMGV: ---	Other information: ---	
Chemical Name	Oil mist, mineral	Content %:
WEL-TWA: 5 mg/m ³ (ACGIH)	WEL-STEL: 10 mg/m ³ (ACGIH)	---
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:

Chemical resistant protective gloves (EN 374).

If applicable

Protective Neopren gloves (EN 374).

Protective nitrile gloves (EN 374)

Protective PVC 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.

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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 General information

Physical state:	Aerosol
Substance:	Liquid
Colour:	Colourless
Odour:	Characteristic

9.2. Important health, safety and environmental information

pH-value undiluted:	n.a.
Boiling point/boiling range (°C):	n.a.
Melting point/melting range (°C):	Not detected
Flash point (°C):	n.a.
Oxidising properties:	No
Minimum limit of explosion:	0,6 Vol% *
Maximum limit of explosion:	8 Vol% *
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:	Insoluble
Viscosity:	Not detected

* Naphtha (petroleum), hydrotreated heavy

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

See point 7
 Avoid contact with strong oxidizing agents.

Hazardous decomposition products

See point 5.3
 No decomposition when used as directed.

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 eyes
 Drying of the skin.
 Dermatitis (skin inflammation)
 At high concentrations:
 Irritation of the respiratory tract
 Coughing
 Dizziness

Headaches
Effect on the central nervous system
Coordination disorders
Unconsciousness
Ingestion:
Headaches
Nausea
Vomiting
Danger of aspiration
Oedema of the lungs
Chemical pneumonitis (condition similar to pneumonia)
Other dangerous properties cannot be ruled out.

12. ECOLOGICAL INFORMATION

The product was not tested.
Persistence and degradability:
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: Concentration in organisms possible.
Results of PBT assessment
n.av.
Other adverse effects: n.av.
* Naphtha (petroleum), hydrotreated heavy
** 2-(2-butoxyethoxy)ethanol

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)
13 02 05 mineral-based non-chlorinated engine, gear and lubricating oils
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.
E.g. dispose at suitable refuse site.

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 10 packaging containing residues of or contaminated by dangerous substances
Do not perforate, cut up or weld uncleaned container.

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
AEROSOLS



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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:

66 Repeated exposure may cause skin dryness or cracking.

S-phrases:

23 Do not breathe 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.

Observe restrictions:

Yes

Observe youth employment law (German regulation).

Regulation (EC) No 1907/2006, Annex XVII.

16. OTHER INFORMATION

These details refer to the product as it is delivered.

Storage class VCI (Germany):

2 B

EUF0015

Revised points:

16

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

10 Flammable.

65 Harmful: may cause lung damage if swallowed.

66 Repeated exposure may cause skin dryness or cracking.

36 Irritating to eyes.

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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