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

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

1.1 Product identifier

3-IN-ONE®High Performance Lubricant with PTFE

1.2 Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses of the substance or mixture: Lubricant

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

WD-40 Company Limited, PO Box 440, Kiln Farm, Milton Keynes, MK11 3LF, UK Telephone: +44 (0) 1908 555400, Fax: +44 (0) 1908 266900 www.wd40.co.uk

(RL

P.R. Rielly Limited KarKraft House, Kilbarrack Industrial Estate, Kilbarrack, Dublin 5, IE Phone: 01-832 0006, Fax: 01-832 0016 web@team.ie

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

1.4 Emergency telephone

Emergency information services / official advisory body:

Telephone number of the company in case of emergencies:

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

Emergency information services / official advisory body:

Telephone number of the company in case of emergencies:

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

SECTION 2: Hazards identification

| | of the substance or mix on according to Regulat | xture ion (EC) 1272/2008 (CLP) |
|---|--|---|
| Hazard class | Hazard category | Hazard statement |
| Aerosol | 1 | H222-Extremely flammable aerosol. |
| Asp. Tox. | 1 | H304-May be fatal if swallowed and enters airways. |
| Aerosol | 1 | H229-Pressurised container: May burst if heated. |
| 2.1.2 Classification F+,Extremely flammab Xn, Harmful, R65 R66 R67 | le | es 67/548/EEC and 1999/45/EC (including amendments) |

2.2 Label elements 2.2.1 Labeling according to Regulation (EC) 1272/2008 (CLP)

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Hazard statement

H222-Extremely flammable aerosol. H229-Pressurised container: May burst if heated.

Prevention

P210-Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211-Do not spray on an open flame or other ignition source. P251-Do not pierce or burn, even after use.

Storage

P410+P412-Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

EUH208-Contains (R)-p-mentha-1,8-diene. May produce an allergic reaction. EUH066-Repeated exposure may cause skin dryness or cracking.

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

2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006.

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006.

REGULATION (EC) No 648/2004

n.a.

SECTION 3: Composition/information on ingredients

| Aerosol | |
|--|--|
| 3.1 Substance | |
| n.a. 3.2 Mixture | |
| Naphtha (petroleum), hydrotreated heavy | |
| Registration number (REACH) | |
| Index | 649-327-00-6 |
| EINECS, ELINCS, NLP | 265-150-3 |
| CAS | CAS 64742-48-9 |
| content % | 20-30 |
| Classification according to Directive 67/548/EEC | Harmful, Xn, R65 R66 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Asp. Tox. 1, H304 |
| | |
| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics | |
| Registration number (REACH) | 01-2119463258-33-XXXX |
| Index | |
| EINECS, ELINCS, NLP | 919-857-5 (REACH-IT List-No.) |
| CAS | CAS |
| content % | 15-<20 |
| Classification according to Directive 67/548/EEC | Flammable, R10 Harmful, Xn, R65 R66 R67 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H336 |

| (R)-p-mentha-1,8-diene | |
|---|---------------------------------------|
| Registration number (REACH) | |
| Index | 601-029-00-7 |
| EINECS, ELINCS, NLP | 227-813-5 |
| CAS | CAS 5989-27-5 |
| content % | 0,1-<0,25 |
| Classification according to Directive 67/548/EEC | Flammable, R10 |
| | Irritant, Xi, R38 |
| | Sensitizising, R43 |
| | Dangerous for the environment, N, R50 |
| | Dangerous for the environment, R53 |
| | Harmful, Xn, R65 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Flam. Liq. 3, H226 |
| | Asp. Tox. 1, H304 |
| | Skin Irrit. 2, H315 |
| | Skin Sens. 1, H317 |
| | Aquatic Acute 1, H400 (M=1) |
| | Aquatic Chronic 1, H410 (M=1) |

For the text of the R-phrases / H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1/3.2 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

If, for example, the note P is applied for a hydrocarbon then this has already been taken into account for the classification named here.

Quote: "Note P - The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7)."

Article 4 of the regulation (EC) no. 1272/2008 (CLP regulation) was also observed and taken into account for the classification named here.

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

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1. The following may occur: Irritation of the eyes Irritation of the respiratory tract Coughing Headaches Dizziness Effects/damages the central nervous system Unconsciousness With long-term contact: Drying of the skin. Dermatitis (skin inflammation) Sensitive individuals: Allergic reaction possible. Ingestion: Page 4 of 15 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revised on / Version: 18.02.2014 / 0002 Replaces revision of / Version: 13.02.2014 / 0001 Valid from: 18.02.2014 PDF print date: 14.04.2014 3-IN-ONE®High Performance Lubricant with PTFE

Nausea Vomiting Danger of aspiration Oedema of the lungs chemical pneumonitis (condition similar to pneumonia) Other dangerous properties cannot be ruled out. In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours. **4.3 Indication of any immediate medical attention and special treatment needed** Gastric lavage (stomach washing) only under endotracheal intubation.

Subsequent observation for pneumonia and pulmonary oedema.

Pulmonary oedema prophylaxis

GB (RL)

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media

CO2 Extinction powder Water jet spray Alcohol resistant foam

Unsuitable extinguishing media High volume water jet

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop: Oxides of carbon Toxic pyrolysis products. Danger of bursting (explosion) when heated Explosive vapour/air mixture

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 Cool container at risk with water. Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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 and material for containment and 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:

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth) and dispose of according to Section 13.

6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling

7.1.1 General recommendations

Ensure good ventilation.

Avoid inhalation of the vapours.

(BR) Page 5 of 15 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revised on / Version: 18.02.2014 / 0002 Replaces revision of / Version: 13.02.2014 / 0001 Valid from: 18.02.2014 PDF print date: 14.04.2014 3-IN-ONE®High Performance Lubricant with PTFE 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. 7.1.2 Notes on general hygiene measures at the workplace 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. Remove contaminated clothing and protective equipment before entering areas in which food is consumed. 7.2 Conditions for safe storage, including any incompatibilities Keep out of access to unauthorised individuals. 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! 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"). 7.3 Specific end use(s) No information available at present. **SECTION 8: Exposure controls/personal protection** 8.1 Control parameters Workplace exposure limit (WEL) of the total hydrocarbon solvent content of the mixture (RCP method according to EH40): 1000 mg/m3 (GB) Contont 0/ 120

| 9 | Chemical Name | Naphtha (petroleu | um), hydrotreated | l heavy | | | 30 |
|------|---|-------------------|------------------------|-----------------|----------------------------------|----------|----------------------|
| | EL-TWA: 1200 mg/m3 (>= C anched chain alkanes) | 7 normal and | WEL-STEL: - | | | | |
| BN | //GV: | | | | Other information: | | |
| (RL | Chemical Name | Naphtha (petroleu | um), hydrotreated | l heavy | | | Content %:20- 30 |
| | ELV-8h: 600 mg/m3 (AGW) | | OELV-15min: | 2(II) (AGW) | | | |
| BL | V: | | | | Other information: | | |
| œ | Chemical Name | Hydrocarbons, CS | 9-C11, n-alkanes | , isoalkanes, c | yclics, < 2% aromatics | | Content %:15- <20 |
| | EL-TWA: 800 mg/m3 | | WEL-STEL: - | | | | |
| BN | /GV: | | | | Other information: method, EH40) | (WEL acc | . to RCP- |
| (RL | Chemical Name | Hydrocarbons, CS | 9-C11, n-alkanes | , isoalkanes, c | yclics, < 2% aromatics | | Content %:15- <20 |
| OE | ELV-8h: 100 ppm (573 mg/m3 | 3) (White Spirit) | OELV-15min: Spirit) | 125 ppm (720 |) mg/m3) (White | | |
| BL | .V: | | | | Other information: | | |
| œ | Chemical Name | Petroleum gases, | liquified | | | | Content %: |
| | EL-TWA: 1000 ppm (1750 mg troleum gas (LPG)) | | | | 0 mg/m3) (Liquefied | | |
| BN | /GV: | | | | Other information: | | |
| (RL) | Chemical Name | Petroleum gases, | liquified | | | | Content %: |
| OE | ELV-8h: 1000 ppm (1800 mg/ | | OELV-15min: | 1250 ppm (22 | 250 mg/m3) | | |
| BL | .V: | | | | Other information: | | |
| œ | Chemical Name | Oil mist, mineral | | | | | Content %: |
| | EL-TWA: 5 mg/m3 (ACGIH) | | WEL-STEL: ' | 10 mg/m3 (AC | | | |
| BN | //GV: | | | | Other information: | | |
| (RL) | Chemical Name | Oil mist, mineral | | | | | Content %: |

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|--|----------------------------|--------------------|-------|--------------------|---|------------|
| | | | | | 1 | |
| OELV-8h: 0,2 mg/m3 (Mineral of working (inhalable)), 5 mg/m3 (M highly & severely refined (inhalabl | lineral oil, pure, | OELV-15min: | | | | |
| BLV: | | I | | Other information: | | |
| Chemical Name | Paraffin wax, fum | e | | | | Content %: |
| WEL-TWA: 2 mg/m3 | | WEL-STEL: 6 mg | ı/m3 | | | |
| BMGV: | | | | Other information: | | |
| Chemical Name | Paraffin wax, fum | e | | | | Content %: |
| OELV-8h: 2 mg/m3 | | OELV-15min: 6 n | ng/m3 | | | |
| BLV: | | | | 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). (IFV) = Inhalable Fraction and Vapour. (I) = Inhalable Fraction. (R) = Respirable Fraction. | OELV-15min = Occupational Exposure Limit Value (15-minute reference period). (IFV) = Inhalable Fraction and Vapour. (I) = Inhalable Fraction. (R) = Respirable Fraction. | BLV = Biological limit value | Other information: Carc1A, Carc1B = carcinogenic substance, Cat. 1A or 1B. Muta1A, Muta1B = mutagenic substance, Cat. 1A or 1B. Repr1A, Repr1B = Substances known to be toxic for reproduction, Cat. 1A or 1B. Sk = can be absorbed through skin. Asphx = asphyxiant. Sen = Respiratory sensitizer. BOELV = Binding Occupational Exposure Limit Values. IOELV = Indicative Occupational Exposure Limit Values.

| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics | | | | | | |
|--|--|--------------------------------|----------------|-------|-----------------|------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descripto r | Value | Unit | Note |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 208 | mg/kg bw/day | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 871 | mg/m3 | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 125 | mg/kg bw/day | |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 125 | mg/kg bw/day | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 185 | mg/m3 | |

8.2 Exposure controls

<u>_</u>

8.2.1 Appropriate engineering 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.

8.2.2 Individual protection measures, such as personal protective equipment

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.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection: With danger of contact with eyes. Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection: Normally not necessary. with long-term contact: If applicable Protective nitrile gloves (EN 374) Minimum layer thickness in mm: Page 7 of 15 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revised on / Version: 18.02.2014 / 0002 Replaces revision of / Version: 13.02.2014 / 0001 Valid from: 18.02.2014 PDF print date: 14.04.2014 3-IN-ONE®High Performance Lubricant with PTFE

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Permeation time (penetration time) in minutes: > 480 The recommended maximum wearing time is 50% of breakthrough time. Protective gloves made of polyvinyl alcohol (EN 374) Protective Viton® / fluoroelastomer gloves (EN 374) Protective hand cream recommended.

Skin protection - Other: Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments)

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.

Thermal hazards: Not applicable

Additional information on hand protection - No tests have been performed. In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents. 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 mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls

No information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| 3.1 information on basic physical and the | • • |
|---|---|
| Physical state: | Aerosol, Substance: Liquid |
| Colour: | Yellow |
| Odour: | Characteristic |
| Odour threshold: | Not determined |
| pH-value: | n.a. |
| Melting point/freezing point: | Not determined |
| Initial boiling point and boiling range: | n.a. |
| Flash point: | n.a. |
| Evaporation rate: | Not determined |
| Flammability (solid, gas): | Not determined |
| Lower explosive limit: | 0,8 Vol-% |
| Upper explosive limit: | 9 Vol-% |
| Vapour pressure: | Not determined |
| Vapour density (air = 1): | Not determined |
| Density: | Not determined |
| Bulk density: | n.a. |
| Solubility(ies): | Not determined |
| Water solubility: | Insoluble |
| Partition coefficient (n-octanol/water): | Not determined |
| Auto-ignition temperature: | Not determined |
| Decomposition temperature: | Not determined |
| Viscosity: | Not determined |
| Explosive properties: | Product is not explosive. Possible build up of explosive/highly |
| | flammable vapour/air mixture. |
| Oxidising properties: | No |
| 9.2 Other information | |
| Miscibility: | Not determined |
| Fat solubility / solvent: | Not determined |
| Conductivity: | Not determined |
| Conductivity. | |
| | |

Surface tension: Solvents content: Not determined Not determined

SECTION 10: Stability and reactivity

10.1 Reactivity

The product has not been tested.

10.2 Chemical stability

Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

No dangerous reactions are known.

10.4 Conditions to avoid

See also section 7. Heating, open flame, ignition sources

Pressure increase will result in danger of bursting.

10.5 Incompatible materials Avoid contact with strong oxidizing agents.

10.6 Hazardous decomposition products

See also section 5.2

No decomposition when used as directed.

SECTION 11: Toxicological information

Possibly more information on health effects, see Section 2.1 (classification).

| 3-IN-ONE®High Performance | Lubrican | t with PTFE | Ì | , | | |
|--|--------------|-------------|------|----------|-------------|--------------------------|
| Toxicity/effect | Endpoi nt | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | | | | | | n.d.a. |
| Acute toxicity, by dermal | | | | | | n.d.a. |
| route: | | | | | | |
| Acute toxicity, by inhalation: | | | | | | n.d.a. |
| Skin corrosion/irritation: | | | | | | n.d.a. |
| Serious eye damage/irritation: | | | | | | n.d.a. |
| Respiratory or skin sensitisation: | | | | | | n.d.a. |
| Germ cell mutagenicity: | | | | | | n.d.a. |
| Carcinogenicity: | | | | | | n.d.a. |
| Reproductive toxicity: | | | | | | n.d.a. |
| Specific target organ toxicity - single exposure (STOT-SE): | | | | | | n.d.a. |
| Specific target organ toxicity - repeated exposure (STOT- RE): | | | | | | n.d.a. |
| Aspiration hazard: | | | | | | n.d.a. |
| Respiratory tract irritation: | | | | | | n.d.a. |
| Repeated dose toxicity: | | | | | | n.d.a. |
| Symptoms: | | | | | | n.d.a. |
| Other information: | | | | | | Classification according |
| | | | | | | to calculation |
| | | | | | | procedure. |

| Toxicity/effect | Endpoi | Value | Unit | Organism | Test method | Notes |
|--------------------------------|--------|-------|---------|----------|-------------|----------------------|
| | nt | | | | | |
| Acute toxicity, by oral route: | | | | | | unconsciousness, |
| | | | | | | headaches, dizziness |
| Acute toxicity, by oral route: | LD50 | >2000 | mg/kg | Rat | | |
| Acute toxicity, by dermal | LD50 | >2000 | mg/kg | Rat | | |
| route: | | | | | | |
| Acute toxicity, by dermal | LD50 | >2000 | mg/kg | Rabbit | | |
| route: | | | | | | |
| Acute toxicity, by inhalation: | LC50 | >20 | mg/l/4h | Rat | | |

| - (GB) (IRL) | | | |
|--|--------------------------------|----------------|--|
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| Skin corrosion/irritation: | | | Repeated exposure may cause skin dryness or cracking. Mild irritant |
| damage/irritation: | | | Wild Intant |
| Respiratory or skin sensitisation: | | | Not sensitizising |
| Germ cell mutagenicity: | | | Negative |
| Aspiration hazard: | | | Yes |
| Symptoms: | | | unconsciousness, |

headaches, dizziness

| Toxicity/effect | Endpoi | Value | Unit | Organism | Test method | Notes |
|----------------------------------|--------|-------|--------|------------|-----------------------|-----------------------|
| | nt | | | | | |
| Acute toxicity, by oral route: | LD50 | >5000 | mg/kg | Rat | OECD 401 (Acute | |
| | | | | | Oral Toxicity) | |
| Acute toxicity, by dermal | LD50 | >5000 | mg/kg | Rabbit | OECD 402 (Acute | |
| route: | | | | | Dermal Toxicity) | |
| Acute toxicity, by inhalation: | LC50 | >5000 | mg/m3/ | Rat | OECD 403 (Acute | |
| | | | 8h | | Inhalation Toxicity) | |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute | Not irritant Repeated |
| | | | | | Dermal | exposure may cause |
| | | | | | Irritation/Corrosion) | skin dryness or |
| | | | | | | cracking. |
| Serious eye | | | | Rabbit | OECD 405 (Acute | Not irritant |
| damage/irritation: | | | | | Eye | |
| 5 | | | | | Irritation/Corrosion) | |
| Respiratory or skin | | | | Guinea pig | OECD 406 (Skin | No (skin contact) |
| sensitisation: | | | | | Sensitisation) | |
| Germ cell mutagenicity: | | | | | OECD 471 (Bacterial | Negative, Analogous |
| j- | | | | | Reverse Mutation | conclusion |
| | | | | | Test) | |
| Carcinogenicity: | | | | | OECD 453 | Negative, Analogous |
| | | | | | (Combined Chronic | conclusion |
| | | | | | Toxicity/Carcinogenic | |
| | | | | | ity Studies) | |
| Reproductive toxicity: | | | | | OECD 414 (Prenatal | Negative, Analogous |
| | | | | | Developmental | conclusion |
| | | | | | Toxicity Study) | Serieldeleri |
| Specific target organ toxicity - | | | | | | May cause drowsiness |
| single exposure (STOT-SE): | | | | | | or dizziness. |
| Aspiration hazard: | | | | | | Yes |
| Repeated dose toxicity: | | | | | OECD 408 | Not to be expected |
| | | | | | (Repeated Dose 90- | |
| | | | | | Day Oral Toxicity | |
| | | | | | Study in Rodents) | |
| Symptoms: | | | | | | unconsciousness, |
| cymptomo. | | | | | | headaches, dizziness |
| Symptoms: | | | | | | unconsciousness, |
| Cymptonis. | | | | | | headaches, dizziness, |
| | | | | | | reddening of the skin |
| Symptoms: | | | _ | | | unconsciousness, |
| Symptoms. | | | | | | |
| | | | | | | headaches, dizziness |

| Toxicity/effect | Endpoi | Value | Unit | Organism | Test method | Notes |
|--------------------------------|--------|-------|-------|----------|-----------------------------------|-------|
| | nt | | | | | |
| Acute toxicity, by oral route: | LD50 | 4400 | mg/kg | Rat | | |
| Acute toxicity, by oral route: | LD50 | >5000 | mg/kg | Rat | OECD 401 (Acute Oral Toxicity) | |
| cute toxicity, by dermal | LD50 | >2000 | mg/kg | Rabbit | | |
| cute toxicity, by dermal oute: | LD50 | >5000 | mg/kg | Rabbit | | |

| - GB (R) | | | | | | |
|---|-------------------------|----------|-------------|----------|-------------|---------------------------|
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| | | | | | | |
| Symptoms: | | | | | | diarrhoea, rash, itching, |
| | | | | | | gastrointestinal |
| | | | | | | disturbances, mucous |
| | | | | | | membrane irritation |
| | | | | | | nausea and vomiting. |
| | | | | | | |
| Petroleum gases, liquified | | | | - | | |
| Toxicity/effect | Endpoi | Value | Unit | Organism | Test method | Notes |
| | nt | | | | | |
| Acute toxicity, by inhalation: | LC50 | >5 | mg/l | | | |
| Skin corrosion/irritation: | | | | | | Not irritant |
| Serious eye | | | | | | Not irritant |
| damage/irritation: | | | | | | |
| | | | | | | |
| Paraffin wax, fume | | | | | | |
| Toxicity/effect | Endpoi | Value | Unit | Organism | Test method | Notes |
| | nt | | | _ | | |
| Symptoms: | | | | | | diarrhoea |

SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).

| s-in-Onewnign Perior | mance Lubri | cant with | IFIFE | | | | |
|------------------------|-------------|-----------|-------|------|----------|-------------|--------------------------|
| Toxicity/effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| Toxicity to fish: | | | | | | | n.d.a. |
| Toxicity to daphnia: | | | | | | | n.d.a. |
| Toxicity to algae: | | | | | | | n.d.a. |
| Persistence and | | | | | | | Isolate as much as |
| degradability: | | | | | | | possible with an oil |
| | | | | | | | separator. |
| Bioaccumulative | | | | | | | n.d.a. |
| potential: | | | | | | | |
| Mobility in soil: | | | | | | | n.d.a. |
| Results of PBT and | | | | | | | n.d.a. |
| vPvB assessment | | | | | | | |
| Other adverse effects: | | | | | | | n.d.a. |
| Other information: | | | | | | | According to the recipe, |
| | | | | | | | contains no AOX. |

| Naphtha (petroleum), | hydrotreated | heavy | | | | | |
|----------------------|--------------|-------|-------|------|----------|-------------|-----------------------|
| Toxicity/effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| Toxicity to fish: | LC50 | 96h | >100 | mg/l | | | |
| Toxicity to daphnia: | LC50 | 96h | >100 | mg/l | | | |
| Persistence and | | | | | | | Readily biodegradable |
| degradability: | | | | | | | |
| Bioaccumulative | Log Pow | | 5,5- | | | | |
| potential: | - | | 7,2 | | | | |

| Toxicity/effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|----------------------|----------|------|-------|------|---------------|----------------|-------|
| Toxicity to fish: | LC50 | 96h | >1000 | mg/l | Oncorhynchus | OECD 203 | |
| | | | | | mykiss | (Fish, Acute | |
| | | | | | | Toxicity Test) | |
| Toxicity to fish: | NOELR | 28d | 0,13 | mg/l | Oncorhynchus | QSAR | |
| | | | | | mykiss | | |
| Toxicity to fish: | LC50 | 96h | >1000 | mg/l | Oncorhynchus | OECD 203 | |
| | | | | | mykiss | (Fish, Acute | |
| | | | | | | Toxicity Test) | |
| Foxicity to daphnia: | EC50 | 48h | >1000 | mg/l | Daphnia magna | OECD 202 | |
| | | | | | | (Daphnia sp. | |
| | | | | | | Acute | |
| | | | | | | Immobilisation | |
| | | | | | | Test) | |
| oxicity to daphnia: | NOELR | 21d | 0,23 | mg/l | Daphnia magna | QSAR | |

(B) Page 11 of 15 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revised on / Version: 18.02.2014 / 0002 Replaces revision of / Version: 13.02.2014 / 0001 Valid from: 18.02.2014 PDF print date: 14.04.2014 3-IN-ONE®High Performance Lubricant with PTFE

| Toxicity to algae: | NOELR | 72h | 100 | mg/l | Raphidocelis | OECD 201 | |
|--------------------|-------|-----|-------|------|------------------|------------------|-----------------------|
| | | | | | subcapitata | (Alga, Growth | |
| | | | | | | Inhibition Test) | |
| Toxicity to algae: | NOELR | 72h | 3 | mg/l | Pseudokirchnerie | OECD 201 | |
| | | | | | lla subcapitata | (Alga, Growth | |
| | | | | | | Inhibition Test) | |
| Toxicity to algae: | EbC50 | 72h | >1000 | mg/l | Pseudokirchnerie | OECD 201 | |
| | | | | | lla subcapitata | (Alga, Growth | |
| | | | | | | Inhibition Test) | |
| Toxicity to algae: | NOELR | 72h | 100 | mg/l | Raphidocelis | OECD 201 | groth rate |
| | | | | | subcapitata | (Alga, Growth | |
| | | | | | | Inhibition Test) | |
| Toxicity to algae: | ErC50 | 72h | >1000 | mg/l | Pseudokirchnerie | OECD 201 | |
| | | | | | lla subcapitata | (Alga, Growth | |
| | | | | | | Inhibition Test) | |
| Persistence and | | 28d | 80 | % | | OECD 301 F | Readily biodegradable |
| degradability: | | | | | | (Ready | |
| | | | | | | Biodegradability | |
| | | | | | | - Manometric | |
| | | | | | | Respirometry | |
| | | | | | | Test) | |
| Results of PBT and | | | | | | | No PBT substance, No |
| vPvB assessment | | | | | | | vPvB substance |

| (R)-p-mentha-1,8-dien | е | | | | | | |
|--------------------------------|---------------|------|-------|------|------------------------|--|-------|
| Toxicity/effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| Toxicity to fish: | LC50 | 96h | 0,70 | mg/l | Pimephales promelas | | |
| Toxicity to daphnia: | EC50 | 48h | 0,42 | mg/l | Daphnia magna | | |
| Toxicity to algae: | NOEC/NO EL | 96h | 4 | mg/l | | | |
| Persistence and degradability: | | 28d | 92 | % | | OECD 301 D (Ready Biodegradability - Closed Bottle Test) | |

| Petroleum gases, liqui | fied | | | | | | |
|------------------------|----------|------|-------|------|----------|-------------|-------|
| Toxicity/effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| Bioaccumulative | | | | | | | No |
| potential: | | | | | | | |

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

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 04 other organic solvents, washing liquids and mother liquors

Recommendation:

Pay attention to local and national official regulations

E.g. suitable incineration plant.

E.g. dispose at suitable refuse site.

For contaminated packing material

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

| - 68 (R) | |
|--|---|
| Page 12 of 15 | |
| Safety data sheet according to Regulation (EC) No 1907/2006, Ar | |
| Revised on / Version: 18.02.2014 / 0002 | |
| Replaces revision of / Version: 13.02.2014 / 0001 | |
| Valid from: 18.02.2014 | |
| PDF print date: 14.04.2014 | |
| 3-IN-ONE®High Performance Lubricant with PTFE | |
| | |
| General statements | |
| UN number: | 1950 |
| Transport by road/by rail (ADR/RID) | |
| UN proper shipping name: | |
| UN 1950 AEROSOLS | |
| Transport hazard class(es): | 2.1 |
| Packing group: | - |
| Classification code: | 5F |
| LQ (ADR 2013): | 1L |
| LQ (ADR 2009): | 2 |
| Environmental hazards: | Not applicable |
| Tunnel restriction code: | D |
| Transport by sea (IMDG-code) | |
| UN proper shipping name: | |
| AEROSOLS | • |
| Transport hazard class(es): | 2.1 |
| Packing group: | - |
| EmS: | F-D, S-U |
| Marine Pollutant: | n.a |
| Environmental hazards: | Not applicable |
| Transport by air (IATA) | |
| UN proper shipping name: | |
| Aerosols, flammable | |
| Transport hazard class(es): | 2.1 |
| Packing group: | · • |
| Environmental hazards: | Not applicable |
| Special precautions for user | |
| Persons employed in transporting dangerous goods must be train | |
| All persons involved in transporting must observe safety regulation | 20 |
| | |
| Precautions must be taken to prevent damage. | |
| | |
| Precautions must be taken to prevent damage. Transport in bulk according to Annex II of MARP Freighted as packaged goods rather than in bulk, therefore not ap | OL 73/78 and the IBC Code |
| Precautions must be taken to prevent damage. Transport in bulk according to Annex II of MARP Freighted as packaged goods rather than in bulk, therefore not ap Minimum amount regulations have not been taken into account. | OL 73/78 and the IBC Code |
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The following phrases represent the posted R phrases / H phrases, Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3). 10 Flammable.

38 Irritating to skin.

(B) (RL)

43 May cause sensitization by skin contact.

50 Very toxic to aquatic organisms.

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

65 Harmful: may cause lung damage if swallowed.

66 Repeated exposure may cause skin dryness or cracking.

67 Vapours may cause drowsiness and dizziness.

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Aerosol — Aerosols Asp. Tox. — Aspiration hazard Flam. Liq. — Flammable liquid STOT SE — Specific target organ toxicity - single exposure - narcotic effects Skin Irrit. — Skin irritation Skin Sens. — Skin sensitization Aquatic Acute — Hazardous to the aquatic environment - acute Aquatic Chronic — Hazardous to the aquatic environment - chronic

Any abbreviations and acronyms used in this document:

AC Article Categories according, according to acc., acc. to ACGIHAmerican Conference of Governmental Industrial Hygienists ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road) AOEL Acceptable Operator Exposure Level AOX Adsorbable organic halogen compounds approx. approximately Art., Art. no. Article number Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP) ATE BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany) BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany) BCF **Bioconcentration factor** BGV Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation) Butylhydroxytoluol (= 2,6-Di-t-butyl-4-methyl-phenol) BHT BMGV Biological monitoring guidance value (EH40, UK) BOD Biochemical oxygen demand BSEF Bromine Science and Environmental Forum bw body weight CAS **Chemical Abstracts Service** CEC Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants and Other Fluids CESIO Comité Européen des Agents de Surface et de leurs Intermédiaires Organiques **CIPAC** Collaborative International Pesticides Analytical Council CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures) CMR carcinogenic, mutagenic, reproductive toxic COD Chemical oxygen demand CTFA Cosmetic, Toiletry, and Fragrance Association DMEL Derived Minimum Effect Level DNEL Derived No Effect Level DOC Dissolved organic carbon DT50 Dwell Time - 50% reduction of start concentration DVS Deutscher Verband für Schweißen und verwandte Verfahren e.V. (= German Association for Welding and Allied Processes) dw dry weight for example (abbreviation of Latin 'exempli gratia'), for instance e.g.

GB (RL) Page 14 of 15 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revised on / Version: 18.02.2014 / 0002 Replaces revision of / Version: 13.02.2014 / 0001 Valid from: 18.02.2014 PDF print date: 14.04.2014 3-IN-ONE®High Performance Lubricant with PTFE FC European Community ECHA European Chemicals Agency EEA European Economic Area European Economic Community EEC EINECS European Inventory of Existing Commercial Chemical Substances **ELINCS** European List of Notified Chemical Substances EN European Norms United States Environmental Protection Agency (United States of America) EPA ERC **Environmental Release Categories** ES Exposure scenario et cetera etc. EU **European Union** EWC European Waste Catalogue Fax. Fax number general gen. GHS Globally Harmonized System of Classification and Labelling of Chemicals GWP Global warming potential HET-CAM Hen's Egg Test - Chorionallantoic Membrane HGWP Halocarbon Global Warming Potential IARC International Agency for Research on Cancer IATA International Air Transport Association IBC Intermediate Bulk Container IBC (Code) International Bulk Chemical (Code) IC Inhibitory concentration IMDG-code International Maritime Code for Dangerous Goods incl. including, inclusive IUCLIDInternational Uniform ChemicaL Information Database LC lethal concentration LC50 lethal concentration 50 percent kill LCLo lowest published lethal concentration LD Lethal Dose of a chemical LD50 Lethal Dose, 50% kill LDLo Lethal Dose Low LOAELLowest Observed Adverse Effect Level LOEC Lowest Observed Effect Concentration LOEL Lowest Observed Effect Level Limited Quantities LQ MARPOL International Convention for the Prevention of Marine Pollution from Ships n.a. not applicable n.av. not available not checked n.c. n.d.a. no data available NIOSHNational Institute of Occupational Safety and Health (United States of America) No Observed Adverse Effective Concentration NOAEC NOAEL No Observed Adverse Effect Level NOEC No Observed Effect Concentration NOEL No Observed Effect Level ODP Ozone Depletion Potential OECD Organisation for Economic Co-operation and Development org. organic polycyclic aromatic hydrocarbon PAH persistent, bioaccumulative and toxic PBT PC Chemical product category ΡE Polyethylene PNEC Predicted No Effect Concentration POCP Photochemical ozone creation potential ppm parts per million PROC Process category PTFE Polytetrafluorethylene REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals) REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT. RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail) SADT Self-Accelerating Decomposition Temperature

(B) (RL) Page 15 of 15 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revised on / Version: 18.02.2014 / 0002 Replaces revision of / Version: 13.02.2014 / 0001 Valid from: 18.02.2014 PDF print date: 14.04.2014 3-IN-ONE®High Performance Lubricant with PTFE SAR Structure Activity Relationship SU Sector of use SVHC Substances of Very High Concern Telephone Tel. ThOD Theoretical oxygen demand TOC Total organic carbon TRGS Technische Regeln für Gefahrstoffe (=Technical Regulations for Hazardous Substances) United Nations Recommendations on the Transport of Dangerous Goods UN RTDG VbF Verordnung über brennbare Flüssigkeiten (= Regulation for flammable liquids (Austria)) VOC Volatile organic compounds vPvB very persistent and very bioaccumulative WEL-TWA, WEL-STEL WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period), WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period) (EH40, UK). WHO World Health Organization wet weight wwt 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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