## 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**

GB (RL)

## WD-40® Specialist® Lawn and Garden Heavy Duty Grease

#### **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, United Kingdom Phone:+44 (0) 1908 555400, Fax:+44 (0) 1908 266900 www.wd40.co.uk

P.R. Rielly Limited KarKraft House, Kilbarrack Industrial Estate, Kilbarrack, Dublin 5, Ireland 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 number

# Emergency information services / official advisory body:

National Poisons Information Centre, Beaumont Hospital, Dublin 9, Ireland, Tel.: +353 (0)1 809 2166 (Public Poisons Info Line, 8am-10pm, 7 days a week) +353 (0)1 809 2566 (Info for Healthcare Professionals ONLY, 24 h, 7 days a week)

Telephone number of the company in case of emergencies:

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

**SECTION 2: Hazards identification** 

#### 2.1 Classification of the substance or mixture Classification according to Regulation (EC) 1272/2008 (CLP)

Hazard class	Hazard category	Hazard statement
Skin Irrit.	2	H315-Causes skin irritation.
STOT SE	3	H336-May cause drowsiness or dizziness.
Aquatic Chronic	2	H411-Toxic to aquatic life with long lasting effects.
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.

## 2.2 Label elements

Labeling according to Regulation (EC) 1272/2008 (CLP)



Hydrocarbons, C6, isoalkanes, < 5% n-hexane	
Registration number (REACH)	01-2119484651-34-XXXX
Index	
EINECS, ELINCS, NLP	931-254-9 (REACH-IT List-No.)
CAS	(64742-49-0)
content %	10-20
Classification according to Regulation (EC) 1272/2008 (CLP)	Flam. Liq. 2, H225
	Asp. Tox. 1, H304
	STOT SE 3, H336
	Aquatic Chronic 2, H411

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	
Registration number (REACH)	01-2119475515-33-XXXX
Index	
EINECS, ELINCS, NLP	927-510-4 (REACH-IT List-No.)
CAS	/
content %	5-15
Classification according to Regulation (EC) 1272/2008 (CLP)	Flam. Liq. 2, H225
	Asp. Tox. 1, H304
	Skin Irrit. 2, H315
	STOT SE 3, H336
	Aquatic Chronic 2, H411

For the text of the 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.

## **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

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) Ingestion: Nausea Vomiting Danger of aspiration Oedema of the lungs chemical pneumonitis (condition similar to pneumonia) WD-40® Specialist® Lawn and Garden Heavy Duty Grease

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

## **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media Suitable extinguishing media

## CO<sub>2</sub>

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 gases 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. 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.

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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.

(B) (RL)

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

Store in a well ventilated place.

Observe special storage conditions.

## 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): 800 mg/m3

Chemical Name	Butane		Content %:1-50
WEL-TWA: 600 ppm (1450 mg/			
Monitoring procedures:	- Compur - KITA-221 SA (549 459)		
BMGV:	Other information:		
Chemical Name	Butane		Content %:1-50
OELV-8h: 1000 ppm	OELV-15min:		
Monitoring procedures:	- Compur - KITA-221 SA (549 459)	-	
BLV:	Other information:		
Chemical Name	Isobutane		Content %:1-40
WEL-TWA: 1000 ppm (ACGIH)	WEL-STEL:		
Monitoring procedures:	- Compur - KITA-113 SB(C) (549 368)		
BMGV:	Other information:		
Chemical Name	Isobutane		Content %:1-40
OELV-8h: 1000 ppm (1800 mg/	n3) (LPG) OELV-15min: 1250 ppm (2250 mg/m3) (LPG)		
Monitoring procedures:	- Compur - KITA-113 SB(C) (549 368)	1	
BLV:	Other information:		
Chemical Name	Propane		Content %:1-40
WEL-TWA: 1000 ppm (ACGIH)	WEL-STEL:		
Monitoring procedures:	- Compur - KITA-125 SA (549 954)		
BMGV:	Other information:		
Chemical Name	Propane		Content %:1-40
OELV-8h: 1000 ppm	OELV-15min:		
Monitoring procedures:	- Compur - KITA-125 SA (549 954)		
BLV:	Other information:	Asphx	
<sup>(®)</sup> Chemical Name	Hydrocarbons, C6, isoalkanes, < 5% n-hexane		Content %:10- 20
WEL-TWA: 800 mg/m3	WEL-STEL:		20
Monitoring procedures:	- Draeger - Hydrocarbons 2/a (81 03 581)		
	- Draeger - Hydrocarbons 0,1%/c (81 03 571)		
	- Compur - KITA-187 S (551 174)		
BMGV:	Other information: method, EH40)	(WEL ac	c. to RCP-
Chemical Name	Hydrocarbons, C6, isoalkanes, < 5% n-hexane		Content %:10- 20
OELV-8h: 1200 mg/m3 (AGW)	OELV-15min: 2(II) (AGW)		

-GB (IRL)					
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WD-40® Specialist® Lawn and G	arden Heavy Duty	Grease			
Monitoring procedures:		Draeger - Hydrocarbons 2/a (81 Draeger - Hydrocarbons 0,1%/c			
BLV:		Compur - KITA-187 S (551 174)	Other information:		
Chemical Name	Hydrocarbons, C	7, n-alkanes, isoalkanes, cyclics	i i i i i i i i i i i i i i i i i i i		Content %:5-15
WEL-TWA: 800 mg/m3		WEL-STEL:	00 504)		
Monitoring procedures:	-	Draeger - Hydrocarbons 2/a (81 Draeger - Hydrocarbons 0,1%/c Compur - KITA-187 S (551 174)			
BMGV:	-	Comput - KITA-167 S (551 174)	Other information: method, EH40)	(WEL aco	c. to RCP-
		<b>N7</b> II I II II II			
Chemical Name CELV(0b): 4200 mg/m2 (ACM)	Hydrocarbons, C	7, n-alkanes, isoalkanes, cyclics			Content %:5-15
OELV-8h: 1200 mg/m3 (AGW) Monitoring procedures:		OELV-15min: 2(II) (AGW) Draeger - Hydrocarbons 2/a (81	02 501)		
Monitoring procedures.	-	Draeger - Hydrocarbons 2/a (81 Draeger - Hydrocarbons 0,1%/c Compur - KITA-187 S (551 174)			
BLV:			Other information:		
· · · · · · · · · · · · · · · · · · ·		1			Content %:1-
Chemical Name		leum), hydrotreated light			<10
WEL-TWA: 1200 mg/m3 (>= C7 branched chain alkanes)	normai and	WEL-STEL:			
Monitoring procedures:	-	Draeger - Hydrocarbons 2/a (81	03 581)		
	-	Draeger - Hydrocarbons 0,1%/c Compur - KITA-187 S (551 174)			
BMGV:			Other information:		
					Content %:1-
Chemical Name	Distillates (petrol	leum), hydrotreated light			<10
OELV-8h: 600 mg/m3 (AGW)		OELV-15min: 2(II) (AGW)			
Monitoring procedures:		Draeger - Hydrocarbons 2/a (81			
		Draeger - Hydrocarbons 0,1%/c	(81 03 571)		
BLV:	-	Compur - KITA-187 S (551 174)	Other information:		
	0.1		Other Information.		0 1 101
	Oil mist, mineral		2001		Content %:
WEL-TWA: 5 mg/m3 (ACGIH) Monitoring procedures:		WEL-STEL: 10 mg/m3 (ACC Draeger - Oil 10/a-P (67 28 371)			
Monitoring procedures.		Draeger - Oil Mist 1/a (67 33 031			
BMGV:			Other information:		
Chemical Name	Oil mist, mineral				Content %:
OELV-8h: 5 mg/m3 (Mineral oil,		OELV-15min:			Content 70.
severely refined (inhalable))	, p e , g , e.				
Monitoring procedures:		Draeger - Oil 10/a-P (67 28 371)			
	-	Draeger - Oil Mist 1/a (67 33 031			
BLV:			Other information:		
Chemical Name	Titanium dioxide			_	Content %:
WEL-TWA: 10 mg/m3 (total inh	alable dust), 4	WEL-STEL:			
mg/m3 (respirable dust)					
Monitoring procedures: BMGV:			Other information:		
	Tites in the				Content 0/
Chemical Name     OFLV(2b): 4 mg/m2 (respirable)	Titanium dioxide	0			Content %:
OELV-8h: 4 mg/m3 (respirable (total inhalable dust)	uusi, in my/ms	OELV-15min:			
Monitoring procedures:					
BLV:			Other information:		
EH40. AGW = "Arbeitsplatzgrenz" exposure limit (15-minute reference (biological limit value, Germany)	wert" (workplace li ce period).   BMG\ Other information	<ul> <li>/ = Biological monitoring guidanc</li> <li>: Sen = Capable of causing occu</li> </ul>	L = Workplace Expo ce value EH40. BGW	sure Limit = "Biologis	- Short-term scher Grenzwert"
skin. Carc = Capable of causing c	ancer and/or nerit	able genelic 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, C6, isoa	lkanes, < 5% n-hexane					
Area of application	Exposure route / Environmental compartment	Effect on health	Descripto r	Value	Unit	Note
Consumer	Human - dermal	Long term, systemic effects	DNEL	1377	mg/kg bw/d	
Consumer	Human - oral	Long term, systemic effects	DNEL	1301	mg/kg bw/d	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	1131	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	13964	mg/kg bw/d	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	5306	mg/m3	

<b>,</b> , ,	kanes, isoalkanes, cyclics		1			
Area of application	Exposure route / Environmental compartment	Effect on health	Descripto r	Value	Unit	Note
Consumer	Human - oral	Long term, systemic effects	DNEL	149	mg/kg bw/day	
Consumer	Human - dermal	Long term, systemic effects	DNEL	149	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	447	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	300	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	2085	mg/m3	

Titanium dioxide						
Area of application	Exposure route /	Effect on health	Descripto	Value	Unit	Note
	Environmental		r			
	compartment					
	Environment - freshwater		PNEC	0,127	mg/l	
	Environment - marine		PNEC	1	mg/l	
	Environment - water,		PNEC	0,61	mg/l	
	sporadic (intermittent)					
	release					
	Environment - sewage		PNEC	100	mg/l	
	treatment plant				U U	
	Environment - sediment,		PNEC	1000	mg/kg dw	
	freshwater				0.0	
	Environment - sediment,		PNEC	100	mg/kg dw	
	marine		_		5.5.	
	Environment - soil		PNEC	100	mg/kg dw	
	Environment - oral (animal		PNEC	1667	mg/kg	
	feed)				feed	
Consumer	Human - oral	Long term, systemic	DNEL	700	mg/kg	
		effects				
Workers / employees	Human - inhalation	Long term, local	DNEL	10	mg/m3	
		effects				

# 8.2 Exposure controls8.2.1 Appropriate engineering controls

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

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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.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and nonmetrological investigative techniques.

These are specified by e.g. EN 14042.

GB (RL)

EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

## 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: 0,4 Permeation time (penetration time) in minutes: > 480 The breakthrough times determined in accordance with EN 374 Part 3 were not obtained under practical conditions. 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

Physical state: Colour: Odour: Odour threshold: Aerosol. Active substance: liquid. White Characteristic Not determined Page 9 of 17 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 07.03.2017 / 0006 Replacing version dated / version: 25.05.2016 / 0005 Valid from: 07.03.2017 PDF print date: 09.03.2017 WD-40® Specialist® Lawn and Garden Heavy Duty Grease

pH-value: n.a. Melting point/freezing point: Not determined Initial boiling point and boiling range: Not determined Flash point: Not determined Evaporation rate: Not determined Flammability (solid, gas): Not determined Lower explosive limit: Not determined Upper explosive limit: Not determined Vapour pressure: Not determined Vapour density (air = 1): Not determined Density: Not determined Bulk density: Not determined Solubility(ies): Not determined Water solubility: Insoluble Partition coefficient (n-octanol/water): Not determined Auto-ignition temperature: Not determined Decomposition temperature: Not determined Viscosity: <7 mm2/s (Liquid concentrate ) 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 Not determined Surface tension: Solvents content: Not determined

#### **SECTION 10: Stability and reactivity**

#### **10.1 Reactivity**

GBRL

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** 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

No decomposition when used as directed.

## **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

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

Toxicity / effect	Endpoint	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						n.d.a.
damage/irritation:						
Respiratory or skin						n.d.a.
sensitisation:						
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity -						n.d.a.
single exposure (STOT-SE):						

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WD-40® Specialist® Lawn and Garden Heavy [	irease	
Specific target organ toxicity -	n.d.a.	
repeated exposure (STOT-		
RE):		
Aspiration hazard:	n.d.a.	
Symptoms:	n.d.a.	
Other information:	Classificat	tion
	according	to
	calculation	n
	procedure	<b>)</b> .

Butane						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by inhalation:	LC50	658	mg/l/4h	Rat		
Germ cell mutagenicity:					OECD 471 (Bacterial	Negative
					Reverse Mutation Test)	
Symptoms:						ataxia,
						breathing
						difficulties,
						drowsiness,
						unconsciousne
						s, frostbite,
						disturbed hear
						rhythm,
						headaches,
						cramps,
						intoxication,
						dizziness,
						nausea and
						vomiting.

Isobutane						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by inhalation:	LC50	658	mg/l/4h	Rat		
Serious eye				Rabbit		Not irritant
damage/irritation:						
Germ cell mutagenicity:					OECD 471 (Bacterial	Negative
					Reverse Mutation	
					Test)	
Symptoms:						unconsciousnes
						s, frostbite,
						headaches,
						cramps,
						dizziness,
						nausea and
						vomiting.

Propane							
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes	
Acute toxicity, by inhalation:	LC50	658	mg/l/4h	Rat			
Germ cell mutagenicity:					OECD 471 (Bacterial	Negative	
					Reverse Mutation		
					Test)		
Reproductive toxicity	NOAEC	21,641	mg/l		OECD 422		
(Developmental toxicity):					(Combined Repeated		
					Dose Tox. Study with		
					the		
					Reproduction/Develop		
					m. Tox. Screening		
					Test)		

Symptoms:	breathing difficulties, unconsciousnes s, frostbite, headaches, cramps, mucous membrane irritation,
	dizziness, nausea and vomiting.

Hydrocarbons, C6, isoalkanes, < 5% n-hexane							
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes	
Acute toxicity, by oral route:	LD50	>16750	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)		
Acute toxicity, by dermal route:	LD50	>3350	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)		
Acute toxicity, by inhalation:	LC50	259	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Vapours	
Aspiration hazard:						Yes	
Symptoms:						drowsiness, unconsciousnes s, heart/circulatory disorders, headaches, cramps, drowsiness, mucous membrane irritation, dizziness, nausea and vomiting.	

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics							
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes	
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat			
Acute toxicity, by oral route:	LD50	>8	ml/kg	Rat	OECD 401 (Acute Oral Toxicity)		
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rat			
Acute toxicity, by dermal route:	LD50	>=4	ml/kg	Rat	OECD 402 (Acute Dermal Toxicity)		
Acute toxicity, by inhalation:	LC50	>23,3	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)		
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Irritant	
Aspiration hazard:					,	Yes	
Symptoms:						diarrhoea,	
						headaches, dizziness,	
						nausea and vomiting.	
Distillates (petroleum), hydr	otreated light						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes	
Aspiration hazard:						Yes	
Thereises disade							
Titanium dioxide							
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes	

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route: LD50 >5000 mg/l		mg/kg	Rat	OECD 425 (Acute		
	Oral Toxicity -		Oral Toxicity - Up-and-			
					Down Procedure)	

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Acute toxicity, by dermal	LD50	>5000	mg/kg	Rabbit		
route:						
Acute toxicity, by inhalation:	LD50	>6,8	mg/l/4h	Rat		
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant
Serious eye					OECD 405 (Acute	Not irritant,
damage/irritation:					Eye Irritation/Corrosion)	Mechanical irritation possible.
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Not sensitizising
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Not sensitizising
Germ cell mutagenicity:				Salmonella typhimurium	(Ames-Test)	Negative
Specific target organ toxicity - single exposure (STOT-SE):						Not irritant (respiratory tract).
Symptoms:						mucous membrane irritation
Specific target organ toxicity - repeated exposure (STOT- RE), oral:	NOAEL	3500	mg/kg/d	Rat		90d
Specific target organ toxicity - repeated exposure (STOT- RE), inhalat.:	NOAEC	10	mg/m3	Rat		90 d

# **SECTION 12: Ecological information**

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

WD-40® Specialist® Lawn and Garden Heavy Duty Grease							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:							n.d.a.
12.1. Toxicity to							n.d.a.
daphnia:							
12.1. Toxicity to algae:							n.d.a.
12.2. Persistence and							n.d.a.
degradability:							
12.3. Bioaccumulative							n.d.a.
potential:							
12.4. Mobility in soil:							n.d.a.
12.5. Results of PBT							n.d.a.
and vPvB assessment							
12.6. Other adverse							n.d.a.
effects:							

Butane							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	24,11	mg/l		QSAR	
12.1. Toxicity to daphnia:	LC50	48h	14,22	mg/l		QSAR	
12.3. Bioaccumulative potential:	Log Pow		2,98				A notable biological accumulation potential is not to be expected (LogPow 1-3).
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Propane				·	·		

Trepane							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes

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12.3. Bioaccumulative potential:	Log Pow	2,28	A notable biological accumulation potential is not to be expected (LogPow 1-3).
12.5. Results of PBT and vPvB assessment			No PBT substance, No vPvB substance

Hydrocarbons, C6, isoalkanes, < 5% n-hexane							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	EC50	96h	18,27	mg/l	Oncorhynchus mykiss		
12.1. Toxicity to daphnia:	EC50	48h	31,9	mg/l	Daphnia magna		
12.2. Persistence and degradability:		28d	98	%			Readily biodegradable (Analogous conclusion)
12.3. Bioaccumulative potential:	Log Kow		2,9-4				
12.3. Bioaccumulative potential:	BCF		242-253				
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>13,4	mg/l	Oncorhynchus	OECD 203	
					mykiss	(Fish, Acute	
						Toxicity Test)	
12.1. Toxicity to	EL50	24h	12	mg/l	Daphnia magna	OECD 202	
daphnia:						(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to	LC50	48h	3	mg/l	Daphnia magna	OECD 202	
daphnia:						(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to algae:	EL50	72h	12	mg/l	Pseudokirchnerie	OECD 201	
					lla subcapitata	(Alga, Growth	
						Inhibition Test)	

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>100	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	LC50	48h	>100	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	EC50	72h	16	mg/l	Pseudokirchnerie Ila subcapitata	U.S. EPA-600/9- 78-018	
12.2. Persistence and degradability: 12.2. Persistence and							Not biodegradable Not readily
degradability:							biodegradable
12.3. Bioaccumulative potential:	BCF	42d	9,6				No
12.3. Bioaccumulative potential:							No

12.4. Mobility in soil:						Negative
12.5. Results of PBT						No PBT
and vPvB assessment						substance, No
						vPvB substance
Toxicity to bacteria:	LC0	24h	>10000	mg/l	Pseudomonas	
					fluorescens	
Toxicity to bacteria:			>5000	mg/l	Pseudomonas	
				_	fluorescens	
Toxicity to bacteria:			>5000	mg/l	Escherichia coli	
Toxicity to annelids:	NOEC/NOEL		>1000	mg/kg	Eisenia foetida	
Water solubility:						Insoluble 20°C

## **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. (2014/955/EU)

07 06 04 other organic solvents, washing liquids and mother liquors

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

Take full aerosol cans to problem waste collection.

Take emptied aerosol cans to valuable material collection.

#### 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**

General statements	1050
14.1. UN number:	1950
Transport by road/by rail (ADR/RID)	
14.2. UN proper shipping name:	
UN 1950 AEROSOLS	
14.3. Transport hazard class(es):	2.1
14.4. Packing group:	- -
Classification code:	5F 🗲
LQ:	1 L ×
14.5. Environmental hazards:	environmentally hazardous
Tunnel restriction code:	D
Transport by sea (IMDG-code)	
14.2. UN proper shipping name:	
AEROSOLS (NAPHTHA (PETROLEUM), HYDROTREATED LIG	HT)
14.3. Transport hazard class(es):	2.1
14.4. Packing group:	
EmS:	F-D, S-U
Marine Pollutant:	Yes
14.5. Environmental hazards:	environmentally hazardous
Transport by air (IATA)	
14.2. UN proper shipping name:	
Aerosols, flammable	
14.3. Transport hazard class(es):	2.1
14.4. Packing group:	. <b>V</b>
14.5. Environmental hazards:	Not applicable
14.6. Special precautions for user	
Persons employed in transporting dangerous goods must be train	ed.
All persons involved in transporting must observe safety regulation	

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Precautions must be taken to prevent damage.

#### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Freighted as packaged goods rather than in bulk, therefore not applicable. Minimum amount regulations have not been taken into account.

Danger code and packing code on request.

Comply with special provisions.

## **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Observe restrictions:

Comply with trade association/occupational health regulations.

Directive 2010/75/EU (VOC):

< 91.3 %

## **REGULATION (EC) No 648/2004**

n.a.

Observe youth employment law (German regulation).

## 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

## **SECTION 16: Other information**

EU F0056 Revised sections:

2.16

These details refer to the product as it is delivered.

Employee instruction/training in handling hazardous materials is required. Employee training in handling dangerous goods is required.

## Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Classification in accordance with regulation (EC) No. 1272/2008 (CLP)	Evaluation method used
Skin Irrit. 2, H315	Classification according to calculation procedure.
STOT SE 3, H336	Classification according to calculation procedure.
Aquatic Chronic 2, H411	Classification according to calculation procedure.
Aerosol 1, H222	Classification according to calculation procedure.
Asp. Tox. 1, H304	Classification according to calculation procedure.
Aerosol 1, H229	Classification based on the form or physical state.

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

H220 Extremely flammable gas.

Skin Irrit. — Skin irritation STOT SE — Specific target organ toxicity - single exposure - narcotic effects Aquatic Chronic — Hazardous to the aquatic environment - chronic Aerosol — Aerosols

Asp. Tox. — Aspiration hazard

Flam. Gas — Flammable gases (including chemically unstable gases) Flam. Liq. — Flammable liquid

## Any abbreviations and acronyms used in this document:

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GB (RL) Page 17 of 17 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 07.03.2017 / 0006 Replacing version dated / version: 25.05.2016 / 0005 Valid from: 07.03.2017 PDF print date: 09.03.2017 WD-40® Specialist® Lawn and Garden Heavy Duty Grease LD50 Lethal Dose, 50% kill LDLo Lethal Dose Low LOAELLowest Observed Adverse Effect Level LOEC Lowest Observed Effect Concentration LOEL Lowest Observed Effect Level LQ Limited Quantities MARPOL International Convention for the Prevention of Marine Pollution from Ships not applicable n.a. 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 organic org. PĂH polycyclic aromatic hydrocarbon PBT persistent, bioaccumulative and toxic 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. Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the RID International Carriage of Dangerous Goods by Rail) SADT Self-Accelerating Decomposition Temperature Structure Activity Relationship SAR SU Sector of use SVHC Substances of Very High Concern Tel. Telephone ThOD Theoretical oxygen demand TOC Total organic carbon TRGS Technische Regeln für Gefahrstoffe (=Technical Regulations for Hazardous Substances) UN RTDG United Nations Recommendations on the Transport of Dangerous Goods 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: Chemical Check GmbH, Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90

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