

Page 1 of 16

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

Revised on / Version: 09.01.2014 / 0001

Replaces revision of / Version: 09.01.2014 / 0001

Valid from: 09.01.2014 PDF print date: 12.02.2014

WD-40® Specialist® Fast Release Penetrant

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

WD-40® Specialist® Fast Release Penetrant

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

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

2.1 Classification of the substance or mixture

2.1.1 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.

2.1.2 Classification according to Directives 67/548/EEC and 1999/45/EC (including amendments)

F+, Extremely flammable

Xi, Irritant, R38

N, Dangerous for the environment, R51-53

R67



Page 2 of 16

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

Revised on / Version: 09.01.2014 / 0001

Replaces revision of / Version: 09.01.2014 / 0001

Valid from: 09.01.2014 PDF print date: 12.02.2014

WD-40® Specialist® Fast Release Penetrant

2.2 Label elements

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



Hazard statement

H315-Causes skin irritation. H336-May cause drowsiness or dizziness. H411-Toxic to aquatic life with long lasting effects. H222-Extremely flammable aerosol. H229-Pressurised container: May burst if heated.

P101-If medical advice is needed, have product container or label at hand. P102-Keep out of reach of children.

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. P261-Avoid breathing vapour or spray. P273-Avoid release to the environment. P280-Wear protective gloves.

Response

P312-Call a POISON CENTER/doctor if you feel unwell.

Storage

P405-Store locked up. P410+P412-Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

Disposal

P501-Dispose of contents/container in a safe way.

Without adequate ventilation, formation of explosive mixtures may be possible. Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

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.

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

REGULATION (EC) No 648/2004

n.a.

SECTION 3: Composition/information on ingredients

Aerosol

3.1 Substance

n.a.

3.2 Mixture

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP	927-510-4 (REACH-IT List-No.)
CAS	CAS
content %	40-50
Classification according to Directive 67/548/EEC	Highly flammable, F, R11 Irritant, Xi, R38 Dangerous for the environment, N, R51 Dangerous for the environment, R53 Harmful, Xn, R65 R67



Page 3 of 16

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

Revised on / Version: 09.01.2014 / 0001 Replaces revision of / Version: 09.01.2014 / 0001

Valid from: 09.01.2014

PDF print date: 12.02.2014 WD-40® Specialist® Fast Release Penetrant

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

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2%	
aromatics	
Registration number (REACH)	01-2119456620-43-XXXX
Index	
EINECS, ELINCS, NLP	926-141-6 (REACH-IT List-No.)
CAS	CAS
content %	30-50
Classification according to Directive 67/548/EEC	Harmful, Xn, R65
	R66
Classification according to Regulation (EC) 1272/2008 (CLP)	Asp. Tox. 1, H304

Distillates (petroleum), hydrotreated light	
Registration number (REACH)	
Index	649-422-00-2
EINECS, ELINCS, NLP	265-149-8
CAS	CAS 64742-47-8
content %	1-5
Classification according to Directive 67/548/EEC	Harmful, Xn, R65
Classification according to Regulation (EC) 1272/2008 (CLP)	Asp. Tox. 1, H304

Carbon dioxide	Substance for which an EU exposure limit value applies.
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP	204-696-9
CAS	CAS 124-38-9
content %	1-5
Classification according to Directive 67/548/EEC	
Classification according to Regulation (EC) 1272/2008 (CLP)	

Hydrocarbons, C7-C9, isoalkanes	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP	921-728-3 (REACH-IT List-No.)
CAS	
content %	1-5
Classification according to Directive 67/548/EEC	Highly flammable, F, R11 Irritant, Xi, R38 Dangerous for the environment, N, R51 Dangerous for the environment, R53 Harmful, Xn, R65 R67
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 R-phrases / H-phrases and classification codes (GHS/CLP), see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation

Remove person from danger area.

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

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

Skin contact



Page 4 of 16

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

Revised on / Version: 09.01.2014 / 0001 Replaces revision of / Version: 09.01.2014 / 0001

Valid from: 09.01.2014 PDF print date: 12.02.2014

WD-40® Specialist® Fast Release Penetrant

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)

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

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.



Page 5 of 16

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

Revised on / Version: 09.01.2014 / 0001

Replaces revision of / Version: 09.01.2014 / 0001

Valid from: 09.01.2014 PDF print date: 12.02.2014

WD-40® Specialist® Fast Release Penetrant

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.

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

©® Chemical Name	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics					Content %:40- 50
WEL-TWA: 800 mg/m3		WEL-STEL: -				
BMGV:				Other information: method, EH40)	(WEL ac	cc. to RCP-
Chemical Name	Hydrocarbons, C7,	, n-alkanes, isoa	alkanes, cyclics	5		Content %:40- 50
OELV-8h: 1200 mg/m3 (AGW)		OELV-15min:	2(II) (AGW)			
BLV:				Other information:		
©B Chemical Name	Hydrocarbons, C1	1-C14, n-alkane	s, isoalkanes,	cyclics, < 2% aromatic	s	Content %:30- 50

Page 6 of 16							
Revised on / Version: 09.01. Replaces revision of / Versio Valid from: 09.01.2014 PDF print date: 12.02.2014 WD-40® Specialist® Fast Re	on: 09.01.2014 / 0001	1907/2006, Annex	II				
WEL-TWA: 1200 mg/m3 (x branched chain alkanes)	>=C7 normal and	WEL-STEL: 2	(II) (AGW)	Otherwise			
BMGV:				Other inform	ation:		
Chemical Name		11-C14, n-alkanes		cyclics, < 2%	aromatics	(Content %:30- 50
OELV-8h: 600 mg/m3 (AG	·W)	OELV-15min:	2(II) (AGW)	Other inform	ation:		
Chemical Name	Distillates (petrol	eum), hydrotreated	d light			(Content %:1-5
WEL-TWA: 1200 mg/m3 (x branched chain alkanes)	>= C7 normal and	WEL-STEL:	-				
BMGV:				Other inform	ation:		
© Chemical Name OELV-8h: 600 mg/m3 (AG		eum), hydrotreated OELV-15min:	d light 2(II) (AGW)				Content %:1-5
BLV:	,	1 0 = 2 1 0 1 1 1 1 1		Other inform	ation:	-	
© Chemical Name	Carbon dioxide					(Content %:1-5
WEL-TWA: 5000 ppm (915 5000 ppm (9000 mg/m3) (EL	50 mg/m3) (WEL), J)	WEL-STEL: 1	5000 ppm (27	'400 mg/m3) ('	WEL)		
BMGV:	•			Other inform	ation:	-	
© Chemical Name OELV-8h: 5000 ppm (9000	Carbon dioxide	OELV-15min:	15000nnm (2	7000 mg/m3)	(OFLV		Content %:1-5
EC)	7 mg/m3) (OELV-on,	15min)	15000ppiii (2)	,	`		
BLV:				Other inform	ation: IC	DELV	
©B Chemical Name WEL-TWA: 1200 mg/m3	Hydrocarbons, C	7-C9, isoalkanes WEL-STEL:	-				Content %:1-5
BMGV:		WEE OTEE.		Other inform method, EH4	`	VEL acc. t	o RCP-
Chemical Name	Oil mist, mineral						Content %:
$\perp MEI_TMA \cdot 5 ma/m3 (ACC)$							Contone 70.
WEL-TWA: 5 mg/m3 (ACG	SIH)	WEL-STEL: 10	0 mg/m3 (ACC	GIH) Other inform	ation:		Contone 70.
	Oil mist, mineral	WEL-STEL: 10	0 mg/m3 (ACC	GIH) Other inform	ation:		Content %:
BMGV: Chemical Name OELV-8h: 0,2 mg/m3 (Mine working (inhalable)), 5 mg/m	Oil mist, mineral eral oil, used in metal n3 (Mineral oil, pure,	WEL-STEL: 10 OELV-15min:		GIH) Other inform	ation:		
BMGV: Chemical Name OELV-8h: 0,2 mg/m3 (Mine	Oil mist, mineral eral oil, used in metal n3 (Mineral oil, pure,			GIH) Other inform Other inform			
BMGV: Chemical Name OELV-8h: 0,2 mg/m3 (Minor working (inhalable)), 5 mg/m highly & severely refined (inhalable): Chemical Name	Oil mist, mineral eral oil, used in metal n3 (Mineral oil, pure,	OELV-15min:		Other inform			
BMGV: Chemical Name OELV-8h: 0,2 mg/m3 (Minor working (inhalable)), 5 mg/m highly & severely refined (inhalable): Chemical Name WEL-TWA: 2 mg/m3	Oil mist, mineral eral oil, used in metal n3 (Mineral oil, pure, nalable))	OELV-15min:		Other inform	ation:		Content %:
BMGV: Chemical Name OELV-8h: 0,2 mg/m3 (Mine working (inhalable)), 5 mg/m highly & severely refined (inhalable): Chemical Name WEL-TWA: 2 mg/m3 BMGV:	Oil mist, mineral eral oil, used in metal n3 (Mineral oil, pure, nalable)) Paraffin wax, fum	OELV-15min: ne WEL-STEL: 6		Other inform	ation:		Content %:
BMGV: Chemical Name OELV-8h: 0,2 mg/m3 (Mine working (inhalable)), 5 mg/m highly & severely refined (inhalable): Chemical Name WEL-TWA: 2 mg/m3 BMGV: Chemical Name OELV-8h: 2 mg/m3	Oil mist, mineral eral oil, used in metal n3 (Mineral oil, pure, nalable))	OELV-15min: ne WEL-STEL: 6		Other inform Other inform	ation:		Content %:
BMGV: Chemical Name OELV-8h: 0,2 mg/m3 (Mine working (inhalable)), 5 mg/m highly & severely refined (inhalable): Chemical Name WEL-TWA: 2 mg/m3 BMGV: Chemical Name	Oil mist, mineral eral oil, used in metal n3 (Mineral oil, pure, nalable)) Paraffin wax, fum	OELV-15min: ne WEL-STEL: 6	mg/m3	Other inform	ation:		Content %:
BMGV: Chemical Name OELV-8h: 0,2 mg/m3 (Mine working (inhalable)), 5 mg/m highly & severely refined (inhalable): Chemical Name WEL-TWA: 2 mg/m3 BMGV: Chemical Name OELV-8h: 2 mg/m3	Paraffin wax, fum	OELV-15min: Ne WEL-STEL: 6 Ne OELV-15min: -term exposure lime mit value, German / = Biological moni : Sen = Capable or d/or heritable gene d through the TRG (8-hour reference = Occupational Exp ion. (R) = Respirate or 1B. Muta1A, Mi at. 1A or 1B. Sk =	mg/m3 it (8-hour TW/y). WEL-STE toring guidant f causing occutic damage. S 900 (Germa period). (IFV) posure Limit Vole Fraction. uta1B = mutagan be absorb	Other inform Other inform Other inform Other inform A (= time weige = Workplace value EH40 upational asthuany) of Januar = Inhalable F'alue (15-minumous BLV = Biologing genic substanted through skelpt Stantaged through skelpt Sta	ation: ation: ation: ation: ation: phted aver be Exposu be BGW = ma. Sk = my 2006 wi raction and the reference call limit value, Cat. 1, 2, 2, 2, 3, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	age) reference Limit - S "Biologisc Can be ab dith the goal d Vapour. ace period) alue Othe A or 1B. R = asphyxi	Content %: Content %: Content %: Content %: ence period) Short-term her Grenzwert" sorbed I of revision. (I) = Inhalable . (IFV) = r information: epr1A, Repr1B ant. Sen =
BMGV: Chemical Name OELV-8h: 0,2 mg/m3 (Mine working (inhalable)), 5 mg/m highly & severely refined (inh BLV: Chemical Name WEL-TWA: 2 mg/m3 BMGV: Chemical Name OELV-8h: 2 mg/m3 BLV: WEL-TWA = Workplace EH40. AGW = "Arbeitsplatzgexposure limit (15-minute ref (biological limit value, Germathrough skin. Carc = Capable** = The exposure limit for th CELV-8h = Occupational Fraction. (R) = Respirable Frestion and Vapor Carc1A, Carc1B = carcinoge = Substances known to be to Respiratory sensitizer. BOEL	Paraffin wax, fum Paraffin wax,	OELV-15min: Ne WEL-STEL: 6 Ne OELV-15min: -term exposure lime mit value, German / = Biological moni : Sen = Capable or d/or heritable gene d through the TRG (8-hour reference = Occupational Exp ion. (R) = Respirate or 1B. Muta1A, Mi at. 1A or 1B. Sk =	mg/m3 it (8-hour TW/y). WEL-STE itoring guidant f causing occutic damage. S 900 (Germa period). (IFV) posure Limit V ple Fraction. uta1B = mutagcan be absorbed values. IOEL	Other inform Other inform Other inform Other inform A (= time weigen = Workplace value EH40 upational asthum = Inhalable Form any) of Januar = Inhalable Form alue (15-minuration = BLV = Biologic genic substance ded through skown = Indicative =	ation: ation: ation: ation: ation: phted aver be Exposu be BGW = ma. Sk = my 2006 wi raction and the reference call limit value, Cat. 1, 2, 2, 2, 3, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	age) reference Limit - S "Biologisc Can be ab dith the goal d Vapour. ace period) alue Othe A or 1B. R = asphyxi	Content %: I of revision. (I) = Inhalable (IFV) = (I



Page 7 of 16

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

Revised on / Version: 09.01.2014 / 0001

Replaces revision of / Version: 09.01.2014 / 0001

Valid from: 09.01.2014 PDF print date: 12.02.2014

WD-40® Specialist® Fast Release Penetrant

Workers / employees	Human - dermal	Long term, systemic effects	DNEL	773	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	2035	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	699	mg/kg bw/day	
Consumer	Human - dermal	Long term, systemic effects	DNEL	699	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	608	mg/m3	

8.2 Exposure controls

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:

0,4

Permeation time (penetration time) in minutes:

>= 480

Protective Viton® / fluoroelastomer gloves (EN 374)

Minimum layer thickness in mm:

0,4

Permeation time (penetration time) in minutes:

>= 480

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



Page 8 of 16

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

Revised on / Version: 09.01.2014 / 0001

Replaces revision of / Version: 09.01.2014 / 0001

Valid from: 09.01.2014 PDF print date: 12.02.2014

WD-40® Specialist® Fast Release Penetrant

No information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: Aerosol, Substance: Liquid

Colour: Beige
Odour: Perfumed
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-% Not determined Upper explosive limit: Vapour pressure: Not determined Vapour density (air = 1): Not determined Density: 0,764 g/ml

Bulk density:

Solubility(ies):

Water solubility:

Partition coefficient (n-octanol/water):

Auto-ignition temperature:

Decomposition temperature:

Viscosity:

Not determined

Not determined

Not determined

Not determined

Explosive properties: Product is not explosive. Possible build up of explosive/highly

flammable vapour/air mixture.

Oxidising properties: N

9.2 Other information

Miscibility:

Fat solubility / solvent:

Conductivity:

Not determined

Not determined

Surface tension:

Not determined

Not determined

Not determined

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 decomposition if used as intended.

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).

WD-40® Specialist® Fast Release Penetrant						
Toxicity/effect	Endpoi	Value	Unit	Organism	Test method	Notes
-	nt					
Acute toxicity, by oral route:						n.d.a.
Acute toxicity, by dermal						n.d.a.
route:						



Page 9 of 16
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revised on / Version: 09.01.2014 / 0001
Replaces revision of / Version: 09.01.2014 / 0001

Valid from: 09.01.2014

PDF print date: 12.02.2014 WD-40® Specialist® Fast Release Penetrant

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n.d.a.
n.d.a.
n.d.a.
n.d.a.
n.d.a.
n.d.a.
n.d.a.
n.d.a.
Classification
according to calculation
procedure.

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics									
Toxicity/effect	Endpoi nt	Value	Unit	Organism	Test method	Notes			
Acute toxicity, by oral route:	LD50	>5840	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	Analogous conclusion			
Acute toxicity, by dermal route:	LD50	>2920	mg/kg	Rat	OECD 402 (Acute Dermal Toxicity)	Analogous conclusion			
Acute toxicity, by inhalation:	LC50	>23,3	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Analogous conclusion			
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Irritant			
Serious eye damage/irritation:				Rabbit		Not irritant			
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact)			
Germ cell mutagenicity:					OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative			
Carcinogenicity:						Negative			
Reproductive toxicity:	NOAEL	9000	ppm	Rat	OECD 416 (Two- generation Reproduction Toxicity Study)	Negative			
Aspiration hazard:						Yes			
Aspiration hazard:						Yes			
Symptoms:						diarrhoea, headaches dizziness, nausea and vomiting.			
Symptoms:						dizziness, unconsciousness, heart/circulatory disorders, headaches, cramps, drowsiness, mucous membrane irritation, dizziness, nausea and vomiting.			
Teratogenicity:	NOAEC	1200	ppm	Rat		Negative			

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)	



Page 10 of 16
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revised on / Version: 09.01.2014 / 0001
Replaces revision of / Version: 09.01.2014 / 0001

Valid from: 09.01.2014

PDF print date: 12.02.2014 WD-40® Specialist® Fast Release Penetrant

Acute toxicity, by inhalation:	LC50	>5000	mg/m3	Rat	OECD 403 (Acute	
					Inhalation Toxicity)	
Skin corrosion/irritation:					OECD 404 (Acute	Analogous conclusion,
					Dermal	Drying of the skin.,
					Irritation/Corrosion)	Dermatitis (skin
						inflammation)
Serious eye					OECD 405 (Acute	Analogous conclusion,
damage/irritation:					Eve	Slightly irritant
					Irritation/Corrosion)	- 3 - 7
Respiratory or skin					OECD 406 (Skin	Not sensitizising
sensitisation:					Sensitisation)	(Analogous conclusion)
Germ cell mutagenicity:					OECD 471	Analogous conclusion,
Cerm cen matagementy.					(Bacterial Reverse	Negative
					Mutation Test)	Negative
Corres cell results reminists (in	-				Mutation Test)	Negative
Germ cell mutagenicity (in vivo):						Negative
Carcinogenicity:					OECD 453	Analogous conclusion,
					(Combined Chronic	Negative
					Toxicity/Carcinogenic	G
					ity Studies)	
Reproductive toxicity:					OECD 414 (Prenatal	Analogous conclusion,
. top. oudour o toxuony.					Developmental	Negative
					Toxicity Study)	
Specific target organ toxicity -						Analogous conclusion,
single exposure (STOT-SE):						No indications of such
						an effect.
Specific target organ toxicity -					OECD 408	Analogous conclusion,
repeated exposure (STOT-					(Repeated Dose 90-	Not to be expected
RĖ):					Day Oral Toxicity	•
					Study in Rodents)	
Aspiration hazard:					Stady in reading)	Harmful: may cause
Application nazara.						lung damage if
						swallowed.
Respiratory tract irritation:						Analogous conclusion,
Nespiratory tract irritation.						No indications of such
						an effect.
Symptoms:						drying of the skin.,
						headaches, fatigue,
						dizziness, nausea

Distillates (petroleum), hydrotreated light										
Toxicity/effect Endpoi Value Unit Organism Test method Notes										
	nt									
Aspiration hazard:						Yes				

Carbon dioxide										
Toxicity/effect	Endpoi	Value	Unit	Organism	Test method	Notes				
	nt									
Symptoms:						unconsciousness, blisters by skin-contact, vomiting, frostbite, annoyance, palpitations, itching, headaches, cramps, ear noises, dizziness				

Hydrocarbons, C7-C9, isoalkanes									
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	>2000	mg/kg	Rabbit	OECD 402 (Acute				
route:					Dermal Toxicity)				
Acute toxicity, by inhalation:	LC50	>9,4	mg/l	Rat	OECD 403 (Acute	Aerosol			
					Inhalation Toxicity)				
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Irritant			
					Dermal				
					Irritation/Corrosion)				



Page 11 of 16

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

Revised on / Version: 09.01.2014 / 0001 Replaces revision of / Version: 09.01.2014 / 0001

Valid from: 09.01.2014

PDF print date: 12.02.2014 WD-40® Specialist® Fast Release Penetrant

Serious eye				Rabbit	OECD 405 (Acute	Not irritant
damage/irritation:					Eye	
G					Irritation/Corrosion)	
Respiratory or skin				Guinea pig	OECD 406 (Skin	Not sensitizising
sensitisation:					Sensitisation)	
Germ cell mutagenicity (in					OECD 471	Negative
vitro):					(Bacterial Reverse	
,					Mutation Test)	
Germ cell mutagenicity (in				Rat	OECD 478 (Genetic	Negative
vivo):					Toxicology - Rodent	
-,					dominant Lethal	
					Test)	
Reproductive toxicity:	NOAEL	9000	ppm	Rat	OEĆD 416 (Two-	Negative
			' '		generation `	
					Reproduction	
					Toxicity Study)	
Specific target organ toxicity -	NOAEC	1200	ppm	Rat	OECD 413	Negative
repeated exposure (STOT-			' '		(Subchronic	
RE):					Inhalation Toxicity -	
,					90-Day Study)	
Aspiration hazard:					''	Yes
Symptoms:						headaches, mucous
						membrane irritation,
						dizziness

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).

WD-40® Specialist® Fa	WD-40® Specialist® Fast Release Penetrant										
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.				

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics										
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes			
Toxicity to fish:	LL50	96h	13,4	mg/l	Oncorhynchus mykiss					
Toxicity to daphnia:	EL50	48h	3	mg/l	Daphnia magna					
Toxicity to algae:	EL50	72h	10 - 30	mg/l	Pseudokirchnerie Ila subcapitata					
Toxicity to algae:	NOELR	72h	10	mg/l	Pseudokirchnerie Ila subcapitata					
Persistence and degradability:					·		Readily biodegradable			
Water solubility:			2,6	mg/l			25°C			

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics										
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes			



Page 12 of 16

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

Revised on / Version: 09.01.2014 / 0001 Replaces revision of / Version: 09.01.2014 / 0001

Valid from: 09.01.2014 PDF print date: 12.02.2014

WD-40® Specialist® Fast Release Penetrant

Toxicity to fish:	LL50	96h	>1000	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute	
					,	Toxicity Test)	
Toxicity to fish:	NOELR	28d	0,17	mg/l	Oncorhynchus mykiss	QSAR	
Toxicity to daphnia:	EL50	48h	>1000	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
Toxicity to daphnia:	NOELR	21d	1,22	mg/l	Daphnia magna	QSÁR	
Toxicity to algae:	NOELR	72h	1000	mg/l	Pseudokirchnerie Ila subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
Toxicity to algae:	ErL50	72h	>1000	mg/l	Pseudokirchnerie Ila subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
Persistence and degradability:		28d	69	%		OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	
Bioaccumulative potential:	Log Pow		6-8			,	
Results of PBT and vPvB assessment:							No PBT substance, No vPvB substance

Carbon dioxide							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Other adverse effects:							Greenhouse effect

Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC0		0,11	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
Toxicity to daphnia:	EL50	48h	2,4	mg/l	Daphnia magna	·	
Toxicity to daphnia:	EC50	21d	0,23	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	
Toxicity to algae:	EL50	72h	12	mg/l	Pseudokirchnerie Ila subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
Persistence and degradability:		28d	22	%		OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Not readily but inherent biodegradable.
Other organisms:	EL50	48h	28,48	mg/l	Tetrahymen pyriformis	,	

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



Page 13 of 16

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

Revised on / Version: 09.01.2014 / 0001 Replaces revision of / Version: 09.01.2014 / 0001

Valid from: 09.01.2014 PDF print date: 12.02.2014

WD-40® Specialist® Fast Release Penetrant

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

UN number: 1950

Transport by road/by rail (ADR/RID) UN proper shipping name:

UN 1950 AEROSOLS
Transport hazard class(es):
Packing group:
Classification code:
LQ (ADR 2013):
LQ (ADR 2009):
2.1
1 L
1 L
2 (ADR 2009):
2

Environmental hazards: environmentally hazardous

Tunnel restriction code: D

Transport by sea (IMDG-code)

UN proper shipping name:

AEROSOLS (NAPHTHA (PETROLEUM))

Transport hazard class(es):

Packing group:

EmS:

2.1

F-D, 3

EmS: F-D, S-U Yes

Environmental hazards: environmentally hazardous

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 trained.

All persons involved in transporting must observe safety regulations.

Precautions must be taken to prevent damage.

Transport in bulk according to Annex II of MARPOL 73/78 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.

SECTION 15: Regulatory information

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

For classification and labelling see Section 2.

Observe restrictions: Yes

Comply with trade association/occupational health regulations.

Observe youth employment law (German regulation).

VOC (1999/13/EC): ~83% w/w

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

These details refer to the product as it is delivered.

EU F0053

Revised sections: n.a.









Page 14 of 16

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

Revised on / Version: 09.01.2014 / 0001

Replaces revision of / Version: 09.01.2014 / 0001

Valid from: 09.01.2014 PDF print date: 12.02.2014

WD-40® Specialist® Fast Release Penetrant

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 based on test data.
Asp. Tox. 1, H304	Classification according to calculation procedure.
Aerosol 3, H229	Classification based on test data.

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).

. 11 Highly flammable.

38 Irritating to skin.

51 Toxic to aquatic organisms.

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

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.

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.

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. Liq. — Flammable liquid

Any abbreviations and acronyms used in this document:

AC Article Categories

acc., acc. to according, according to

ACGIH American 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

ATE Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)

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)

BHT Butylhydroxytoluol (= 2,6-Di-t-butyl-4-methyl-phenol)

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

® ®L Page 15 of 16 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revised on / Version: 09.01.2014 / 0001 Replaces revision of / Version: 09.01.2014 / 0001 Valid from: 09.01.2014 PDF print date: 12.02.2014 WD-40® Specialist® Fast Release Penetrant 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) dry weight dw e.g. for example (abbreviation of Latin 'exempli gratia'), for instance EC **European Community** ECHA European Chemicals Agency European Economic Area EEA **European Economic Community** EEC European Inventory of Existing Commercial Chemical Substances **EINECS ELINCS** European List of Notified Chemical Substances ΕN European Norms **EPA** United States Environmental Protection Agency (United States of America) ERC **Environmental Release Categories** ES Exposure scenario etc. et cetera ΕU **European Union** EWC European Waste Catalogue Fax number Fax. gen. general 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) Inhibitory concentration IC IMDG-code International Maritime Code for Dangerous Goods including, inclusive incl. **IUCLID** International 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 not applicable n.av. not available not checked n.c. n.d.a. no data available NIOSH National 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. PAH polycyclic aromatic hydrocarbon PBT persistent, bioaccumulative and toxic PC Chemical product category PΕ Polyethylene PNEC Predicted No Effect Concentration

POCP Photochemical ozone creation potential

ppm parts per million PROC Process category PTFE Polytetrafluorethylene



Page 16 of 16

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

Revised on / Version: 09.01.2014 / 0001

Replaces revision of / Version: 09.01.2014 / 0001

Valid from: 09.01.2014 PDF print date: 12.02.2014

WD-40® Specialist® Fast Release Penetrant

Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)

9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical REACH-IT List-No. 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

Telephone Tel.

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

Verordnung über brennbare Flüssigkeiten (= Regulation for flammable liquids (Austria)) VbF

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

wwt wet weight

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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