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

Revised on / Version: 12.08.2014 / 0002 Replaces revision of / Version: 31.01.2014 / 0001

Valid from: 12.08.2014 PDF print date: 19.08.2014

3-IN-ONE® Heavy Duty Cleaner Degreaser

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® Heavy Duty Cleaner Degreaser

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

Degreaser

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

(IRL

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)

(IRL)

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
Eye Irrit.	2	H319-Causes serious eye irritation.
Skin Sens.	1	H317-May cause an allergic skin reaction.
Aquatic Chronic	2	H411-Toxic to aquatic life with long lasting effects.
Aerosol	1	H222-Extremely flammable aerosol.
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)

Sensitizising, R43

N, Dangerous for the environment, R51/53

F+,Extremely flammable

2.2 Label elements

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



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Danger

Hazard statement

H319-Causes serious eye irritation. H317-May cause an allergic skin reaction. 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 vapours or spray. P273-Avoid release to the environment. P280-Wear protective gloves and eye protection/face protection.

Response

P302+P352-IF ON SKIN: Wash with plenty of water and soap. P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P314-Get medical advice/attention if you feel unwell.

Storage

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

Disposal

P501-Dispose of contents/container safely.

Without adequate ventilation, formation of explosive mixtures may be possible. (R)-p-mentha-1,8-diene

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

5 % or over but less than 15 % aliphatic hydrocarbons less than 5 % anionic surfactants aromatic hydrocarbons non-ionic surfactants

perfumes LIMONENE

SECTION 3: Composition/information on ingredients

Aerosol

3.1 Substance

n.a. 3.2 Mixture

3.2 Wikture	
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics	
(2-25%)	
Registration number (REACH)	01-2119458049-33-XXXX
Index	
EINECS, ELINCS, NLP	919-446-0 (REACH-IT List-No.)
CAS	CAS



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content %	1-<10
Classification according to Directive 67/548/EEC	Flammable, R10 Dangerous for the environment, N, R51 Dangerous for the environment, R53 Harmful, Xn, R65 R66
Olara Marchan and an de Daniel de n. (EO) 4070/0000 (OLD)	R67
Classification according to Regulation (EC) 1272/2008 (CLP)	Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H336 Aquatic Chronic 2, H411

Sweet orange extract	
Registration number (REACH)	01-2119493353-35-XXXX
Index	
EINECS, ELINCS, NLP	232-433-8
CAS	CAS 8028-48-6
content %	2,5-5
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. Lig. 3, H226
	Skin Irrit. 2, H315
	Skin Sens. 1, H317
	Aquatic Acute 1, H400 (M=1)
	Aquatic Chronic 1, H410 (M=1)
	Asp. Tox. 1. H304

2-Butoxyethanol	Substance for which an EU exposure limit value
	applies.
Registration number (REACH)	01-2119475108-36-XXXX
Index	603-014-00-0
EINECS, ELINCS, NLP	203-905-0
CAS	CAS 111-76-2
content %	1-5
Classification according to Directive 67/548/EEC	Harmful, Xn, R20/21/22
	Irritant, Xi, R36/38
Classification according to Regulation (EC) 1272/2008 (CLP)	Acute Tox. 4, H302
	Eye Irrit. 2, H319
	Skin Irrit. 2, H315
	Acute Tox. 4, H312
	Acute Tox. 4, H332

Fatty alcohol ethoxylates	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP	-
CAS	CAS 68439-45-2
content %	1-<3
Classification according to Directive 67/548/EEC	Harmful, Xn, R22
	Irritant, Xi, R41
Classification according to Regulation (EC) 1272/2008 (CLP)	Acute Tox. 4, H302
	Eve Dam. 1. H318

Ammonia	Substance for which an EU exposure limit value applies.
Registration number (REACH)	01-2119982985-14-XXXX
Index	007-001-01-2
EINECS, ELINCS, NLP	215-647-6
CAS	CAS 1336-21-6
content %	0,1-<1
Classification according to Directive 67/548/EEC	Corrosive, C, R34
	Dangerous for the environment, N, R50

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

Skin Corr. 1B, H314

Aquatic Acute 1, H400 (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.

4.2 Most important symptoms and effects, both acute and delayed

Fatigue

Mental confusion

Headaches

Dizziness

Allergic reaction

The following may occur:

Irritation of the eyes

Irritation of the respiratory tract

Coughing

Headaches

Dizziness

Effects/damages the central nervous system

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

n.c.

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

Oxides of sulphur

Oxides of nitrogen



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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. Flush residue using copious water.

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



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8.1 Control parameters

Workplace exposure limit (WEL) of the total hydrocarbon solvent content of the mixture (RCP method according to EH40): 300 mg/m3

Chemical Name	Hydrocarbons, C	9-C12, n-alkanes, isoalkanes, c	yclics, aromatics (2-25%	%)	Content %:1- <10
WEL-TWA: 300 mg/m3 (AGW)		WEL-STEL: 2(II) (AGW)			
BMGV:			Other information:		
Chemical Name	Hydrocarbons, C	9-C12, n-alkanes, isoalkanes, c	yclics, aromatics (2-25%	%)	Content %:1- <10
OELV-8h: 300 mg/m3 (AGW)		OELV-15min: 2(II) (AGW)			
BLV:			Other information:		
Chemical Name	2-Butoxyethanol				Content %:1-5
WEL-TWA: 25 ppm (123 mg/m		WEL-STEL: 50 ppm (246 m	ng/m3) (WEL, EU)		
ppm (98 mg/m3) (EU)	- / (3 -7 (, -7		
BMGV: 240 mmol butoxyacetic	acid/mol creatinine	e in urine, post shift (BMGV)	Other information: S	k (WEL)	
© Chemical Name	2-Butoxyethanol				Content %:1-5
OELV-8h: 20 ppm (98 mg/m3)		OELV-15min: 50 ppm (246	ma/m3) (OFL V-		OUTION 70.1 O
20 pp. (00 mg/mo)	(0227 011, 20)	15min, EC)	mg/mo/ (OLLV		
BLV: 200 mg/g creatinine (Buto	xvacetic acid (BAA	A) in urine, h) (ACGIH-BEI)	Other information: S	Sk, IOEL\	V
	,	, , , , , , , , ,			
(B)					Contant %:0.1
Chemical Name	Ammonia				Content %:0,1- <1
WEL-TWA: NH3 25 ppm (18 m ppm (14 mg/m3) (EU)		WEL-STEL: NH3 35 ppm (2 ppm (36 mg/m3) (EU)	, , , ,,		. '
Chemical Name WEL-TWA: NH3 25 ppm (18 m					. '
WEL-TWA: NH3 25 ppm (18 m ppm (14 mg/m3) (EU)			, , , ,,	 	. '
WEL-TWA: NH3 25 ppm (18 m ppm (14 mg/m3) (EU) BMGV:	g/m3) (WEL), 20 Ammonia	ppm (36 mg/m3) (EU)	Other information: (36 mg/m3) (OELV-		<1 Content %:0,1-
Chemical Name WEL-TWA: NH3 25 ppm (18 m ppm (14 mg/m3) (EU) BMGV: Chemical Name OELV-8h: NH3 20 ppm (14 mg.	g/m3) (WEL), 20 Ammonia	ppm (36 mg/m3) (EU) OELV-15min: NH3 50 ppm	Other information: (36 mg/m3) (OELV-		<1 Content %:0,1-
Chemical Name WEL-TWA: NH3 25 ppm (18 m ppm (14 mg/m3) (EU) BMGV: Chemical Name OELV-8h: NH3 20 ppm (14 mg/EC) BLV:	g/m3) (WEL), 20 Ammonia /m3) (OELV-8h,	ppm (36 mg/m3) (EU) OELV-15min: NH3 50 ppm 15min, EC)	Other information: (36 mg/m3) (OELV-		<1 Content %:0,1-
Chemical Name WEL-TWA: NH3 25 ppm (18 m ppm (14 mg/m3) (EU) BMGV: Chemical Name OELV-8h: NH3 20 ppm (14 mg/EC) BLV: Chemical Name	g/m3) (WEL), 20 Ammonia /m3) (OELV-8h,	ppm (36 mg/m3) (EU) OELV-15min: NH3 50 ppm 15min, EC)	Other information: (36 mg/m3) (OELV- Other information: IC		<1 Content %:0,1- 1</td
Chemical Name WEL-TWA: NH3 25 ppm (18 m ppm (14 mg/m3) (EU) BMGV: Chemical Name OELV-8h: NH3 20 ppm (14 mg/EC) BLV: Chemical Name WEL-TWA: 1000 ppm (1750 m	g/m3) (WEL), 20 Ammonia /m3) (OELV-8h,	ppm (36 mg/m3) (EU) OELV-15min: NH3 50 ppm 15min, EC) , liquified WEL-STEL: 1250 ppm (218	Other information: (36 mg/m3) (OELV-	 OELV	<1 Content %:0,1- 1</td
Chemical Name WEL-TWA: NH3 25 ppm (18 m ppm (14 mg/m3) (EU) BMGV: Chemical Name OELV-8h: NH3 20 ppm (14 mg/EC) BLV: Chemical Name	g/m3) (WEL), 20 Ammonia /m3) (OELV-8h,	ppm (36 mg/m3) (EU) OELV-15min: NH3 50 ppm 15min, EC)	Other information: (36 mg/m3) (OELV- Other information: IG 30 mg/m3) (Liquefied	 OELV	<1 Content %:0,1- 1</td
Chemical Name WEL-TWA: NH3 25 ppm (18 m ppm (14 mg/m3) (EU) BMGV: Chemical Name OELV-8h: NH3 20 ppm (14 mg/EC) BLV: Chemical Name WEL-TWA: 1000 ppm (1750 m petroleum gas (LPG)) BMGV:	g/m3) (WEL), 20 Ammonia /m3) (OELV-8h, Petroleum gases g/m3) (Liquefied	ppm (36 mg/m3) (EU) OELV-15min: NH3 50 ppm 15min, EC) , liquified WEL-STEL: 1250 ppm (218 petroleum gas (LPG))	Other information: (36 mg/m3) (OELV- Other information: IG 30 mg/m3) (Liquefied	OELV	Content %:0,1- <1 Content %:
Chemical Name WEL-TWA: NH3 25 ppm (18 m ppm (14 mg/m3) (EU) BMGV: Chemical Name OELV-8h: NH3 20 ppm (14 mg/EC) BLV: Chemical Name WEL-TWA: 1000 ppm (1750 m petroleum gas (LPG)) BMGV: Chemical Name	g/m3) (WEL), 20 Ammonia /m3) (OELV-8h, Petroleum gases g/m3) (Liquefied	ppm (36 mg/m3) (EU) OELV-15min: NH3 50 ppm 15min, EC) , liquified WEL-STEL: 1250 ppm (218 petroleum gas (LPG))	Other information: (36 mg/m3) (OELV- Other information: Id 30 mg/m3) (Liquefied Other information:	 OELV 	<1 Content %:0,1- 1</td
Chemical Name WEL-TWA: NH3 25 ppm (18 m ppm (14 mg/m3) (EU) BMGV: Chemical Name OELV-8h: NH3 20 ppm (14 mg/EC) BLV: Chemical Name WEL-TWA: 1000 ppm (1750 m petroleum gas (LPG)) BMGV:	g/m3) (WEL), 20 Ammonia /m3) (OELV-8h, Petroleum gases g/m3) (Liquefied	ppm (36 mg/m3) (EU) OELV-15min: NH3 50 ppm 15min, EC) , liquified WEL-STEL: 1250 ppm (218 petroleum gas (LPG))	Other information: (36 mg/m3) (OELV- Other information: Id 30 mg/m3) (Liquefied Other information:	OELV	Content %:0,1- <1 Content %:

- 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.
- ©ELV-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.

2-Butoxyethanol						
Area of application	Exposure route / Environmental compartment	Effect on health	Descripto r	Value	Unit	Note
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	89	mg/kg bw/d	



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Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	663	mg/m3
Workers / employees	Human - inhalation	Short term, local effects	DNEL	246	mg/m3
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	75	mg/kg bw/d
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	98	mg/m3
Consumer	Human - dermal	Short term, systemic effects	DNEL	44,5	mg/kg bw/d
Consumer	Human - inhalation	Short term, systemic effects	DNEL	426	mg/m3
Consumer	Human - oral	Short term, systemic effects	DNEL	13,4	mg/kg bw/d
Consumer	Human - inhalation	Short term, local effects	DNEL	123	mg/m3
Consumer	Human - dermal	Short term, systemic effects	DNEL	38	mg/kg bw/d
Consumer	Human - inhalation	Long term, systemic effects	DNEL	49	mg/m3
Consumer	Human - oral	Short term, systemic effects	DNEL	3,2	mg/kg bw/d
	Environment - freshwater		PNEC	8,8	mg/l
	Environment - marine		PNEC	0,88	mg/l
	Environment - sediment, freshwater		PNEC	34,6	mg/kg dw
	Environment - soil		PNEC	2,8	mg/kg
	Environment - sewage treatment plant		PNEC	463	mg/l
	Environment - sediment, marine		PNEC	3,46	mg/kg dw

Ammonia Area of application	Exposure route /	Effect on health	Descripto	Value	Unit	Note
Area or application	Environmental compartment	Lifect off fleatiff	r	Value	Offic	Note
Industrial	Human - inhalation	Long term, local effects	DNEL	14	mg/m3	
Industrial	Human - inhalation	Long term, systemic effects	DNEL	47,6	mg/m3	
Industrial	Human - dermal	Long term, systemic effects	DNEL	6,8	mg/kg bw/day	
Industrial	Human - inhalation	Short term, local effects	DNEL	36	mg/m3	
Industrial	Human - inhalation	Short term, systemic effects	DNEL	47,6	mg/m3	
Industrial	Human - dermal	Short term, systemic effects	DNEL	6,8	mg/kg bw/day	
Consumer	Human - inhalation	Long term, local effects	DNEL	2,8	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	6,8	mg/kg bw/day	
Consumer	Human - dermal	Long term, systemic effects	DNEL	6,8	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	23,8	mg/m3	
Consumer	Human - inhalation	Short term, local effects	DNEL	7,2	mg/m3	
Consumer	Human - oral	Short term, local effects	DNEL	6,8	mg/kg bw/day	
Consumer	Human - dermal	Short term, systemic effects	DNEL	6,5	mg/kg bw/day	
Consumer	Human - inhalation	Short term, systemic effects	DNEL	23,8	mg/m3	
	Environment - freshwater		PNEC	0,0011	mg/l	
	Environment - marine		PNEC	0,0011	mg/l	



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Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)						
Area of application	Exposure route / Environmental compartment	Effect on health	Descripto r	Value	Unit	Note
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	330	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	44	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	71	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	26	mg/kg bw/day	
Consumer	Human - oral	Long term, systemic effects	DNEL	26	mg/kg bw/day	
Workers / employees	Human - inhalation	Short term	DNEL	570	mg/m3	
Consumer	Human - inhalation	Short term	DNEL	570	mg/m3	

Sweet orange extract Area of application	Exposure route / Environmental	Effect on health	Descripto	Value	Unit	Note
	compartment					
Workers / employees	Human - dermal	Long term	DNEL	8,89	mg/kg bw/day	
Workers / employees	Human - dermal	Short term	DNEL	0,1858	mg/cm2	
Workers / employees	Human - inhalation	Long term	DNEL	31,1	mg/m3	
Consumer	Human - oral	Long term	DNEL	4,44	mg/kg body weight/day	
Consumer	Human - dermal	Long term	DNEL	4,44	mg/kg bw/day	
	Human - inhalation	Short term, local effects	DNEL	7,78	mg/m3	
	Human - dermal	Short term	DNEL	0,929	mg/cm2	
	Environment - freshwater		PNEC	5,4	mg/l	
	Environment - marine		PNEC	0,54	mg/l	
	Environment - periodic release		PNEC	5,77	mg/l	
	Environment - sediment, freshwater		PNEC	1,3	mg/kg dry weight	
	Environment - sediment, marine		PNEC	0,13	mg/kg dry weight	
	Environment - soil		PNEC	0,261	mg/kg dry weight	
	Environment - sewage treatment plant		PNEC	2,1	mg/l	
	Environment - oral (animal feed)		PNEC	13,3	mg/kg feed	

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:

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Chemical resistant protective gloves (EN 374).

If applicable

Protective nitrile gloves (EN 374) Minimum layer thickness in mm:

0.5

Permeation time (penetration time) in minutes:

480

The recommended maximum wearing time is 50% of breakthrough time.

The breakthrough times determined in accordance with EN 374 Part III were not obtained under practical conditions.

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:

If applicable, these are included in the individual protective measures (eye/face protection, skin protection, respiratory protection).

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: Aerosol, Substance: Liquid

Colour: White
Odour: Characteristic
Odour threshold: Not determined
pH-value: Not determined

Melting point/freezing point:

Not determined Initial boiling point and boiling range:

n.a.

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: 9.0 Vol-% Vapour pressure: Not determined Vapour density (air = 1): Not determined Density: Not determined Bulk density: Not determined Solubility(ies): Not determined Water solubility: Mixable

Partition coefficient (n-octanol/water):

Auto-ignition temperature:

Decomposition temperature:

Viscosity:

Not determined

Not determined

Not determined

Explosive properties: Possible build up of explosive/highly flammable vapour/air

mixture. Product is not explosive.

No

9.2 Other information

Oxidising properties:

Miscibility: Not determined



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Fat solubility / solvent:

Conductivity:

Surface tension:

Solvents content:

Not determined

Not determined

Not determined

SECTION 10: Stability and reactivity

10.1 Reactivity

See also Subsection 10.2 to 10.6. The product has not been tested.

10.2 Chemical stability

See also Subsection 10.1 to 10.6. Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

See also Subsection 10.1 to 10.6. 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 Subsection 10.1 to 10.5.

No decomposition when used as directed.

SECTION 11: Toxicological information

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

3-IN-ONE® Heavy Duty Cleaner Degreaser Test method Endpoi Unit **Organism Notes** Toxicity/effect Value nt Acute toxicity, by oral route: ATE >2000 calculated value mg/kg Acute toxicity, by dermal **ATE** >2000 mg/kg calculated value route: Acute toxicity, by inhalation: ATE >20 mg/l/4h calculated value. Vapours Acute toxicity, by inhalation: ATE >5 mg/l/4h calculated value, Aerosol Skin corrosion/irritation: n.d.a. Serious eve 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): Specific target organ toxicity n.d.a. repeated exposure (STOT-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.

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)											
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)										



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Acute toxicity, by dermal route:	LD50	3400	mg/kg	Rat	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>13,1	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Vapours
Skin corrosion/irritation:					OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant, Analogous conclusion Repeated exposure may cause skin dryness or cracking.
Serious eye damage/irritation:					OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant, Analogous conclusion
Respiratory or skin sensitisation:						Not sensitizising
Germ cell mutagenicity:						Negative
Carcinogenicity:						Negative Benzene content: <0,1%
Reproductive toxicity:						Negative, Analogous conclusion
Specific target organ toxicity - single exposure (STOT-SE):						May cause drowsiness or dizziness.
Aspiration hazard:						Yes
Respiratory tract irritation:						Slightly irritant
Symptoms:						drowsiness, unconsciousness, vomiting, annoyance, skin afflictions, heart/circulatory disorders, headaches, cramps, drowsiness, dizziness

Sweet orange extract						
Toxicity/effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
Acute toxicity, by oral route:	LD50	4400	mg/kg	Rat		
Acute toxicity, by dermal	LD50	>2000	mg/kg	Rabbit		
route:						
Skin corrosion/irritation:						Irritant
Serious eye				Rabbit	OECD 405 (Acute	Not irritant
damage/irritation:					Eye	
					Irritation/Corrosion)	
Respiratory or skin					OECD 429 (Skin	Sensitizing (skin
sensitisation:					Sensitisation - Local	contact)
					Lymph Node Assay)	
Germ cell mutagenicity:						Negative
Reproductive toxicity	NOAEL	591	mg/kg	Rat		
(Developmental toxicity):			bw/d			
Aspiration hazard:						Yes
Repeated dose toxicity:	LOAEL	1000	mg/kg	Mouse		
•			bw/d			
Symptoms:						mucous membrane
•						irritation

2-Butoxyethanol								
Toxicity/effect	Endpoi nt	Value	Unit	Organism	Test method	Notes		
Acute toxicity, by oral route:	LD50	1746	mg/kg	Rat				
Acute toxicity, by dermal route:	LD50	2275	mg/kg	Rat		Does not conform with EU classification.		
Acute toxicity, by inhalation:	LC50	2-20	mg/l	Rat				
Skin corrosion/irritation:				Rabbit		Irritant Product removes fat.		
Serious eye damage/irritation:				Rabbit		Intensively irritant Risk of serious damage to eyes.		
Respiratory or skin sensitisation:				Guinea pig		Not sensitizising		



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Repeated dose toxicity:		
Symptoms:		acidosis, ataxia, breathing difficulties, respiratory distress, drowsiness, unconsciousness, annoyance, coughing, headaches, gastrointestinal disturbances, insomnia, mucous membrane irritation, dizziness

Toxicity/effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
Acute toxicity, by oral route:	LD50	>200- <2000	mg/kg	Rat		
Acute toxicity, by oral route:	LD50	>300 - 2000	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rat		
Acute toxicity, by inhalation:	LC50	>5	mg/l	Rat		
Skin corrosion/irritation:						Mild irritant
Respiratory or skin sensitisation:						Not sensitizising
Carcinogenicity:						Negative, Analogous conclusion
Reproductive toxicity:						Negative, Analogous conclusion

Ammonia	1		1	T		
Toxicity/effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
Acute toxicity, by oral route:	LD50	350	mg/kg	Rat		
Acute toxicity, by oral route:	LDLo	43	mg/kg	Human being		
Acute toxicity, by oral route:	LDLo	550	mg/kg	Cat		
Acute toxicity, by inhalation:	LCLo	5000	ppm	Human being		
Skin corrosion/irritation:						Corrosive
Serious eye				Rabbit		Risk of serious damage
damage/irritation:						to eyes.
Respiratory or skin				Guinea pig		Not sensitizising
sensitisation:						
Germ cell mutagenicity:						None
Carcinogenicity:						None
Reproductive toxicity:						None
Symptoms:						asthmatic symptoms,
						respiratory distress,
						unconsciousness,
						burning of the
						membranes of the
						nose and throat,
						vomiting, cornea
						opacity, coughing,
						cramps, circulatory
						collapse, shock, nausea

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:									

SECTION 12: Ecological information



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

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 degradability:							The surfactant(s) contained in this mixture complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.
Bioaccumulative potential:							n.d.a.
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.

Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50	96h	10	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
Toxicity to fish:	NOELR	28d	0,13	mg/l	Oncorhynchus mykiss	QSAR	
Toxicity to daphnia:	EC50	48h	10	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
Toxicity to daphnia:	NOEC/NO EL	21d	0,097	mg/l	Daphnia magna	·	
Toxicity to daphnia:	LOEC/LO EL	21d	0,203	mg/l	Daphnia magna		
Toxicity to daphnia:	NOELR	21d	0,28	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	
Toxicity to algae:	EC50	72h	4,6	mg/l	Pseudokirchnerie Ila subcapitata		
Toxicity to algae:	NOELR	72h	0,22- 0,76	mg/l	Pseudokirchnerie Ila subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
Toxicity to algae:	ErL50	72h	4,1-10	mg/l	Pseudokirchnerie Ila subcapitata	OECD 201 (Alga, Growth Inhibition Test)	



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Persistence and degradability:		28d	75	%	OECD 301 F (Ready Biodegradak - Manometr Respirometr Test)	bility ic
Bioaccumulative	Log Pow		3,7-			
potential:			6,7			
Results of PBT and						No PBT substance, No
vPvB assessment						vPvB substance
Toxicity to bacteria:	EC50		>100	mg/l		
Water solubility:			~20	mg/l		20°C

Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50	96h	0,7	mg/l	Pimephales promelas	OECD 203 (Fish, Acute Toxicity Test)	
Toxicity to daphnia:	EC50	48h	0,67	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	LIMONENE
Toxicity to algae:	ErC50	72h	150	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
Persistence and degradability:		28d	>90	%		OECD 301 D (Ready Biodegradability - Closed Bottle Test)	Readily biodegradable
Persistence and degradability:		28d	72- 83,4	%		OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	Readily biodegradable
Bioaccumulative potential:	BCF		32- 156			,	
Bioaccumulative potential:	Log Pow		> 4				A notable biological accumulation potential has to be expected (LogPow > 3).
Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Other information:							Does not contain any organically bound halogens which can contribute to the AOX value in waste water.
Water solubility:			3,48- 1767, 3	mg/l			25°C

2-Butoxyethanol								
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes	
Toxicity to fish:	LC50	96h	1474	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)		
Toxicity to fish:	LC50	96h	1490	mg/l	Lepomis macrochirus			
Toxicity to daphnia:	EC50	48h	1550	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)		



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Toxicity to daphnia:	NOEC/NO	21d	100	mg/l	Daphnia magna	OECD 211	
	EL					(Daphnia	
						magna	
						Reproduction	
						Test)	
Toxicity to algae:	EC50	72h	1840	mg/l	Pseudokirchnerie	OECD 201	
Toxiony to diguo.	2000	' - ' '	1010	1119/1	lla subcapitata	(Alga, Growth	
					na Subcapitata	Inhibition Test)	
Persistence and		28d	>99	%		OECD 302 B	
		20u	>99	/0		(Inherent	
degradability:							
						Biodegradability	
						- Zahn-	
						Wellens/EMPA	
						Test)	
Persistence and		28d	95	%		OECD 301 E	
degradability:						(Ready	
						Biodegradability	
						- Modified	
						OECD	
						Screening Test)	
Bioaccumulative	Log Pow		0,83				Negative
potential:							
Mobility in soil:	H (Henry)		0,000	atm*m3			
	` ' '		0016	/mol			
Results of PBT and							No PBT substance, No
vPvB assessment							vPvB substance
Other adverse effects:							n.d.a.
Toxicity to bacteria:	EC0	16h	>700	mg/l	Pseudomonas	DIN 38412 T.8	
				1.3.	putida		
Water solubility:			+		F		Mixable
	1	1		1	I.		

Fatty alcohol ethoxylates							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50	96h	1-10	mg/l			
Toxicity to fish:	EC50		>10- 100	mg/l			
Toxicity to daphnia:	EC50		1-10	mg/l			
Toxicity to algae:	EC50		>10- 100	mg/l			
Persistence and degradability:							Readily biodegradable
Toxicity to bacteria:	EC50		>100	mg/l			

Ammonia							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50	96h	0,53	mg/l	Oncorhynchus mykiss		Anhydrous substance
Toxicity to fish:	LC50	96h	8,2	mg/l	Pimephales promelas		
Toxicity to daphnia:	EC50	48h	0,66	mg/l	Daphnia pulex		
Toxicity to daphnia:	EC50	48h	1,16	mg/l	Daphnia pulicaria		Anhydrous substance
Persistence and		28d	<70	%			Not readily
degradability:							biodegradable
Bioaccumulative potential:							Not to be expected
Toxicity to bacteria:	EC50	5min	1,16	mg/l	Photobacterium phosphoreum		Anhydrous substance
Water solubility:							Soluble

Petroleum gases, liquified								
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes	
Bioaccumulative							No	
potential:								

SECTION 13: Disposal considerations



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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 01 aqueous washing liquids and mother liquors

16 05 04 gases in pressure containers (including halons) containing dangerous substances

20 01 29 detergents containing dangerous substances

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

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): 1 L LQ (ADR 2009): 2 Environmental hazards:

environmentally hazardous

Tunnel restriction code:

Transport by sea (IMDG-code)

UN proper shipping name: AEROSOLS (NAPHTHA (PETROLEUM), D-LIMONENE)

Transport hazard class(es): 2.1 Packing group: EmS: F-D, S-U

Marine Pollutant: 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.

Comply with special provisions.

SECTION 15: Regulatory information

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

Yes

For classification and labelling see Section 2.

Observe restrictions:

Comply with trade association/occupational health regulations.











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Observe youth employment law (German regulation).

Regulation (EC) No 1907/2006, Annex XVII

Directive 2010/75/EU (VOC): ~ 19,4 %

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 F0009

Revised sections:

3, 8, 11, 12

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
Eye Irrit. 2, H319	Classification according to calculation procedure.
Skin Sens. 1, H317	Classification according to calculation procedure.
Aquatic Chronic 2, H411	Classification according to calculation procedure.
Aerosol 1, H222	Classification based on test data.
Aerosol 1, 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).

10 Flammable.

20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

22 Harmful if swallowed.

34 Causes burns.

36/38 Irritating to eyes and skin.

38 Irritating to skin.

41 Risk of serious damage to eyes.

43 May cause sensitization by skin contact.

50 Very toxic to aquatic organisms.

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.

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

Eye Irrit. — Eye irritation

Skin Sens. — Skin sensitization

Aquatic Chronic — Hazardous to the aquatic environment - chronic

Aerosol — Aerosols

Flam. Liq. — Flammable liquid Asp. Tox. — Aspiration hazard

STOT SE — Specific target organ toxicity - single exposure - narcotic effects

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Skin Irrit. — Skin irritation

Aquatic Acute — Hazardous to the aquatic environment - acute

Acute Tox. — Acute toxicity - oral
Acute Tox. — Acute toxicity - dermal
Acute Tox. — Acute toxicity - inhalation
Eye Dam. — Serious eye damage
Skin Corr. — Skin corrosion

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

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

e.g. for example (abbreviation of Latin 'exempli gratia'), for instance

EC European Community
ECHA European Chemicals Agency

EEA European Economic Area

EEC European Economic Community

EINECS European Inventory of Existing Commercial Chemical Substances

ELINCS European List of Notified Chemical Substances

EN European Norms

EPA United States Environmental Protection Agency (United States of America)

ERC Environmental Release Categories

ES Exposure scenario

etc. et cetera

EU European Union

EWC European Waste Catalogue

Fax. Fax number 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

® ®L Page 19 of 20 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revised on / Version: 12.08.2014 / 0002 Replaces revision of / Version: 31.01.2014 / 0001 Valid from: 12.08.2014 PDF print date: 19.08.2014 3-IN-ONE® Heavy Duty Cleaner Degreaser IBC (Code) International Bulk Chemical (Code) Inhibitory concentration IC IMDG-code International Maritime Code for Dangerous Goods incl. including, inclusive IUCLID International Uniform ChemicaL Information Database LC lethal concentration LC50 lethal concentration 50 percent kill LCLo lowest published lethal concentration Lethal Dose of a chemical LD 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 NIOSH National Institute of Occupational Safety and Health (United States of America) NOAEC No Observed Adverse Effective Concentration 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 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 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

SAR Structure Activity Relationship

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

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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