

Page 1 of 27

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)

Revision date / version: 26.06.2025 / 0015

Replacing version dated / version: 13.03.2025 / 0014

Valid from: 26.06.2025 PDF print date: 24.06.2025

3-IN-ONE® Heavy Duty Cleaner Degreaser

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)

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

(GB)

WD-40 Company Limited 252 Upper Third Street Milton Keynes, MK9 1DZ, United Kingdom

WD-40 Company Limited

PO Box 440

GB-Kiln Farm, Milton Keynes, MK11 3LF, United Kingdom

Tel.: +44 (0) 1908 555400 Fax: +44 (0) 1908 266900 E-Mail: Compliance@wd40.co.uk Homepage: www.wd40.co.uk

WD-40 Company Limited Noorderpoort 93E NL- 5916PJ Venlo

Tel.: +31 85 487 46 91

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

1.4 Emergency telephone number

Emergency information services / official advisory body:

(RL)

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

+353 (0)1 809 2566 (Info for Healthcare Professionals ONLY, 24 h, 7 days a week)

Telephone number of the company in case of emergencies:

+44 20 3807 3798

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Hazard class Hazard category Hazard statement

Eye Irrit. 2 H319-Causes serious eye irritation.

Skin Sens. 1 H317-May cause an allergic skin reaction.



Page 2 of 27

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)

Revision date / version: 26.06.2025 / 0015

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3-IN-ONE® Heavy Duty Cleaner Degreaser

Aquatic Chronic 3 H412-Harmful to aquatic life with long lasting effects.

Aerosol 1 H222-Extremely flammable aerosol.

Aerosol 1 H229-Pressurised container: May burst if heated.

2.2 Label elements

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





Danger

H319-Causes serious eye irritation. H317-May cause an allergic skin reaction. H412-Harmful 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.

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. P280-Wear protective gloves / protective clothing and eye protection / face protection.

P314-Get medical advice / attention if you feel unwell.

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

P501-Dispose of contents / container to an approved waste disposal facility.

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

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 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).

SECTION 3: Composition/information on ingredients

Aerosol

3.1 Substances

n.a.

3.2 Mixtures

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2%	
aromatics	
Registration number (REACH)	01-2119463258-33-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	919-857-5
CAS	
content %	1-<10
Classification according to Regulation (EC) 1272/2008 (CLP), M-	EUH066
factors	Flam. Liq. 3, H226
	STOT SE 3, H336
	Asp. Tox. 1, H304

Orange, sweet, ext.	
Registration number (REACH)	01-2119493353-35-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	232-433-8



Page 3 of 27

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)

Revision date / version: 26.06.2025 / 0015

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3-IN-ONE® Heavy Duty Cleaner Degreaser

CAS	8028-48-6
content %	2,5-<5
Classification according to Regulation (EC) 1272/2008 (CLP), M-	Flam. Liq. 3, H226
factors	Skin Irrit. 2, H315
	Skin Sens. 1, H317
	Asp. Tox. 1, H304
	Aquatic Chronic 2, H411

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, REACH-IT List-No.	203-905-0
CAS	111-76-2
content %	1-<5
Classification according to Regulation (EC) 1272/2008 (CLP), M-	Acute Tox. 3, H331
factors	Acute Tox. 4, H302
	Skin Irrit. 2, H315
	Eye Irrit. 2, H319
Specific Concentration Limits and ATE	ATE (oral): 1200 mg/kg
	ATE (as inhalation, Aerosol): 0,5 mg/l/4h
	ATE (as inhalation, Vapours): 3 mg/l

Alcohols, C9-11, ethoxylated	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	
CAS	68439-46-3
content %	1-<3
Classification according to Regulation (EC) 1272/2008 (CLP), M-	Acute Tox. 4, H302
factors	Eye Dam. 1, H318
Specific Concentration Limits and ATE	ATE (oral): 1378 mg/kg

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, REACH-IT List-No.	215-647-6
CAS	1336-21-6
content %	0,1-<1
Classification according to Regulation (EC) 1272/2008 (CLP), M-	Skin Corr. 1B, H314
factors	Eye Dam. 1, H318
	Aquatic Acute 1, H400 (M=1)
Specific Concentration Limits and ATE	STOT SE 3, H335: >=5 %

Impurities, test data and additional information may have been taken into account in classifying and labelling the product. For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

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

For substances that are listed in appendix VI, table 3.1 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.

The addition of the highest concentrations listed here can result in a classification. Only when this classification is listed in Section 2 does it apply. In all other cases the total concentration is below the classification.

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

Inhalation



Page 4 of 27

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)

Revision date / version: 26.06.2025 / 0015

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3-IN-ONE® Heavy Duty Cleaner Degreaser

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.

Eve 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

Toxic gases

Danger of bursting (explosion) when heated

Possible build up of explosive/highly flammable vapour/air mixture.

5.3 Advice for firefighters

For personal protective equipment see Section 8.

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

6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination.



Page 5 of 27

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)

Revision date / version: 26.06.2025 / 0015

Replacing version dated / version: 13.03.2025 / 0014

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3-IN-ONE® Heavy Duty Cleaner Degreaser

Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

Leave the danger zone if possible, use existing emergency plans if necessary.

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.

6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

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!

Observe special storage conditions.

Store cool.

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

Store in a well ventilated place.

Observe special storage conditions.

7.3 Specific end use(s)

No information available at present.

Observe the instructions for good working practice and the recommendations for risk assessment.

Consult hazardous substance information systems, e.g. from the professional associations, the chemical industry or different industries,

depending on the application (building materials, wood, chemistry, laboratory, leather, metal).

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Workplace exposure limit (WEL) of the total hydrocarbon solvent content of the mixture (RCP method according to EH40): 800 mg/m3

® ® Page 6 of 27 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878) Revision date / version: 26.06,2025 / 0015 Replacing version dated / version: 13.03.2025 / 0014 Valid from: 26.06.2025 PDF print date: 24.06.2025 3-IN-ONE® Heavy Duty Cleaner Degreaser Chemical Name Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics WEL-TWA: 800 mg/m3 WEL-STEL: Draeger - Hydrocarbons 0.1%/c (81 03 571) Monitoring procedures: Draeger - Hydrocarbons 2/a (81 03 581) Compur - KITA-187 S (551 174) BMGV: ---Other information: (OEL acc. to RCPmethod, paragraphs 84-87, EH40) © Chemical Name Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics OELV-8h: 100 ppm (573 mg/m3) ("Stoddard OELV-15min: solvent", [White spirit]) Draeger - Hydrocarbons 0,1%/c (81 03 571) Monitoring procedures: Draeger - Hydrocarbons 2/a (81 03 581) Compur - KITA-187 S (551 174) BLV: ---Other information: © Chemical Name 2-Butoxyethanol WEL-TWA: 25 ppm (123 mg/m3) (WEL-TWA), WEL-STEL: 50 ppm (246 mg/m3) (WEL-STEL, 20 ppm (98 mg/m3) (EU) Monitoring procedures: Compur - KITA-190 U(C) (548 873) DFG Meth.-Nr. 2 (D) (Loesungsmittelgemische 3), DFG (E) (Solvent mixtures 3) -2014, 2002 - EU project BC/CEN/ENTR/000/2002-16 card 32-2 (2004) NIOSH 1403 (ALCOHOLS IV) - 2003 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996 OSHA 83 (2-Butoxyethanol (Butyl Cellosolve)) - 1990 BMGV: 240 mmol butoxyacetic acid/mol creatinine in urine, post shift (BMGV) Other information: Sk (WEL) © Chemical Name 2-Butoxyethanol OELV-15min: 50 ppm (246 mg/m3) (OELV-OELV-8h: 20 ppm (98 mg/m3) (OELV-8h, EU) 15min, EU) Monitoring procedures: Compur - KITA-190 U(C) (548 873) DFG Meth.-Nr. 2 (D) (Loesungsmittelgemische 3), DFG (E) (Solvent mixtures 3) -2014, 2002 - EU project BC/CEN/ENTR/000/2002-16 card 32-2 (2004) NIOSH 1403 (ALCOHOLS IV) - 2003 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996 OSHA 83 (2-Butoxyethanol (Butyl Cellosolve)) - 1990 BLV: 200 mg/g creatinine (Butoxyacetic acid (BAA) in urine, h) (ACGIH-BEI) IOELV, Skin Other information: ©B Chemical Name Ammonia WEL-TWA: NH3 25 ppm (18 mg/m3) (WEL-WEL-STEL: NH3 35 ppm (25 mg/m3) (WEL-STEL), 50 ppm (36 mg/m3) (EU) TWA), 20 ppm (14 mg/m3) (EU) Monitoring procedures: Draeger - Ammonia 0,25/a (81 01 711) Draeger - Ammonia 0,5%/a (CH 31 901) Draeger - Ammonia 2/a (67 33 231) Draeger - Ammonia 5/a (CH 20 501) Draeger - Ammonia 5/b (81 01 941) Compur - KITA-105 SA (548 642) Compur - KITA-105 SB (548 659) Compur - KITA-105 SC (548 667) Compur - KITA-105 SD (548 675) Compur - KITA-105 SH (548 683) Compur - KITA-105 SM (548 691) NIOSH 6015 (Ammonia) - 1990 NIOSH 6016 (AMMONIA by IC) - 2016 OSHA ID-164 (Ammonia in Workplace Atmospheres) - 1988 OSHA ID-188 (Ammonia in workplace atmospheres - solid sorbent) - 2002 BMGV: ---Other information: © Chemical Name Ammonia OELV-15min: NH3 50 ppm (36 mg/m3) (OELV-OELV-8h: NH3 20 ppm (14 mg/m3) (OELV-8h, 15min, EU) Monitoring procedures: Draeger - Ammonia 0,25/a (81 01 711) Draeger - Ammonia 0,5%/a (CH 31 901) Draeger - Ammonia 2/a (67 33 231) Draeger - Ammonia 5/a (CH 20 501)

> Draeger - Ammonia 5/b (81 01 941) Compur - KITA-105 SA (548 642)

Page 7 of 27

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)

Revision date / version: 26.06.2025 / 0015 Replacing version dated / version: 13.03.2025 / 0014

Valid from: 26.06.2025 PDF print date: 24.06.2025

3-IN-ONE® Heavy Duty Cleaner Degreaser

	-	Compur - KITA-105 SB (548 659		
	-	Compur - KITA-105 SC (548 667		
	-	Compur - KITA-105 SD (548 675		
	-	Compur - KITA-105 SH (548 683	3)	
	-	Compur - KITA-105 SM (548 691	1)	
	-	NIOSH 6015 (Ammonia) - 1990		
	-	NIOSH 6016 (AMMONIÁ by IC) -	- 2016	
	_	OSHA ID-164 (Ammonia in Work		1988
	_	OSHA ID-188 (Ammonia in work		
BLV:		(OELV
Chemical Name	Petroleum gase			
WEL-TWA: 1000 ppm (1750 mg	y/m3) (Liquefied	WEL-STEL: 1250 ppm (218	0 mg/m3) (Liquefied	
petroleum gas (LPG))		petroleum gas (LPG))		
Monitoring procedures:				
BMGV:			Other information: -	
R Chemical Name	Petroleum gase	s liquefied		
OELV-8h:	1 otroloum gaco	OELV-15min: 1000 ppm (Bu	ıtane)	
Monitoring procedures:			itario)	
BLV:			Other information:	
			Other information.	
Chemical Name	Isobutane			
WEL-TWA: 1000 ppm (EX) (AC	GIH)	WEL-STEL:		
Monitoring procedures:	-	Compur - KITA-113 SB(C) (549 3	368)	
BMGV:			Other information:	
R Chemical Name	Isobutane			
OELV-8h:	isobularie	OELV-15min: 1000 ppm		
			200	
Monitoring procedures:	-	Compur - KITA-113 SB(C) (549 3		
BLV:			Other information:	
Chemical Name	Propane			
WEL-TWA: 1000 ppm (ACGIH)		WEL-STEL:		
Monitoring procedures:	_	Compur - KITA-125 SA (549 954	1)	
Monitoring procedures.	_	OSHA PV2077 (Propane) - 1990		
BMGV:		CONTRACTOR (1 Topane) 1550		
	_		Other information.	
Chemical Name	Butane			
WEL-TWA: 600 ppm (1450 mg/	m3)	WEL-STEL: 750 ppm (1810		
Monitoring procedures:	-	Compur - KITA-221 SA (549 459		
	-	OSHA PV2010 (n-Butane) - 1993		
BMGV:			Other information:	
Chemical Name	Butane			
OELV-8h:	Datario	OELV-15min: 1000 ppm		
Monitoring procedures:		Compur - KITA-221 SA (549 459	1)	
Montoning procedures.	-	Joinput - Kit A-221 JA (348 438	'J	

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics						
Area of application	Exposure route / Environmental compartment	Effect on health	Descripto r	Value	Unit	Note
Consumer	Human - dermal	Long term, systemic effects	DNEL	46	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	185	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	46	mg/kg bw/day	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	77	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	871	mg/m3	

OSHA PV2010 (n-Butane) - 1993

Other information: ---

2-Butoxyethanol

BLV: ---



Page 8 of 27

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)

Revision date / version: 26.06.2025 / 0015 Replacing version dated / version: 13.03.2025 / 0014

Valid from: 26.06.2025

PDF print date: 24.06.2025 3-IN-ONE® Heavy Duty Cleaner Degreaser

Area of application	Exposure route / Environmental compartment	Effect on health	Descripto r	Value	Unit	Note
	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 dw	
	Environment - sewage treatment plant		PNEC	463	mg/l	
	Environment - sediment, marine		PNEC	3,46	mg/kg dw	
	Environment - sporadic (intermittent) release		PNEC	9,1	mg/l	
	Environment - soil		PNEC	2,33	mg/kg	
	Environment - oral (animal feed)		PNEC	20	mg/kg	
Consumer	Human - inhalation	Long term, local effects	DNEL	123	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	147	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	38	mg/kg bw/d	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	49	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	3,2	mg/kg bw/d	
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	89	mg/kg bw/d	
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	Long term, systemic effects	DNEL	98	mg/m3	

Orange, sweet, ext. Area of application	Exposure route /	Effect on health	Descripto	Value	Unit	Note
Alou of application	Environmental	Life of the control	r	Value	Onic	11010
	compartment		ļ -			
	Environment - soil		PNEC	0,261	mg/kg dw	
	Environment - sewage treatment plant		PNEC	2,1	mg/l	
	Environment - freshwater		PNEC	0,0054	mg/l	
	Environment - marine		PNEC	0,00054	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	5,77	μg/l	
	Environment - sediment, freshwater		PNEC	1,3	mg/kg dw	
	Environment - sediment, marine		PNEC	0,13	mg/kg dw	
Consumer	Human - oral	Long term, systemic effects	DNEL	4,44	mg/kg bw/day	
Consumer	Human - dermal	Long term, systemic effects	DNEL	4,44	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	7,78	mg/m3	



Page 9 of 27

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)

Revision date / version: 26.06,2025 / 0015

Replacing version dated / version: 13.03.2025 / 0014

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Consumer	Human - dermal	Short term, local effects	DNEL	0,0929	mg/cm2
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	31,1	mg/m3
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	8,89	mg/kg bw/day
Workers / employees	Human - dermal	Short term, local effects	DNEL	0,1858	mg/cm2

Area of application	Exposure route / Environmental compartment	Effect on health	Descripto r	Value	Unit	Note
	Environment - freshwater		PNEC	0,0011	mg/l	
	Environment - marine		PNEC	0,0011	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	0,0068	mg/l	
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	

- United Kingdom | WEL-TWA = Workplace Exposure Limit Long-term exposure limit 8-hour TWA (= time weighted average)
- reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).
 (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:
 (8) = Inhalable fraction (2004/37/CE, 2017/164/EU). (9) = Respirable fraction (2004/37/CE, 2017/164/EU). (11) = Inhalable fraction (2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit - 15-minute reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).
- (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU: (8) = Inhalable fraction (2004/37/EC, 2017/164/EU). (9) = Respirable fraction (2004/37/EC, 2017/164/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU).
- | BMGV = Biological monitoring guidance value (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).
- (EU) = Directive 98/24/EC or 2004/37/EC or SCOEL (Biological Limit Value BLV, Recommendation from the Scientific Committee on Occupational Exposure Limits (SCOEL)) |
- Other information (EH40/2005 Workplace exposure limits (Fourth Edition 2020)): Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.
- (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, 2019/1831/EU or 2024/869/EU:
- (13) = The substance can cause sensitisation of the skin and of the respiratory tract (98/24/EC, 2004/37/CE), (14) = The substance



Page 10 of 27

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)

Revision date / version: 26.06.2025 / 0015

Replacing version dated / version: 13.03.2025 / 0014

Valid from: 26.06.2025 PDF print date: 24.06.2025

3-IN-ONE® Heavy Duty Cleaner Degreaser

can cause sensitisation of the skin (2004/37/CE), (15) = Substantial contribution to the total body burden via dermal exposure possible. |

- Ireland/Éire | OELV-8h = Occupational Exposure Limit Value - 8-hour reference period (Chemical Agents and Carcinogens CoP (Code of Practice) 2024, HSA (Health and Safety Authority)): (IFV) = Inhalable Fraction and Vapour. (I) = Inhalable Fraction. (R) = Respirable Fraction.

(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU: (8) = Inhalable fraction (2004/37/EC, 2017/164/EU). (9) = Respirable fraction (2004/37/EC, 2017/164/EU). (11) = Inhalable fraction (2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (2004/37/CE). | OELV-15min = Occupational Exposure Limit Value - 15-minute reference period (Chemical Agents and Carcinogens CoP (Code of Practice) 2024, HSA (Health and Safety Authority)): (IFV) = Inhalable Fraction and Vapour. (I) = Inhalable Fraction. (R) = Respirable Fraction.

(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU: (8) = Inhalable fraction (2004/37/EC, 2017/164/EU). (9) = Respirable fraction (2004/37/EC, 2017/164/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU).

| BMGV = Biological Monitoring Guidance Value (Biological Monitoring Guidelines 2011, HSA (Health and Safety Authority)):

ACGIH-BEI = BMGV have been sourced from Biological Exposure Indices (BEI) as issued by the American Conference of
Governmental Industrial Hygienists (ACGIH). SCOEL = BMGV have been sourced from the Scientific Committee on Occupational
Exposure Limit Values (SCOEL) which was set up by a Commission Decision (95/320/EC) with the mandate to advise the European
Commission on occupational exposure limits for chemicals in the workplace. HSE = BMGV have been sourced from the Health and
Safety Executive (HSE), UK.

(EU) = Directive 98/24/EC or 2004/37/EC or SCOEL (Biological Limit Value - BLV, Recommendation from the Scientific Committee on Occupational Exposure Limits (SCOEL)) |

| Other information (Chemical Agents and Carcinogens CoP (Code of Practice) 2024, HSA (Health and Safety Authority)): 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. Skin = Can be absorbed through skin. Asphx = asphyxiant. Sens = The substance can cause sensitisation. BOELV = Binding Occupational Exposure Limit Values. IOELV = Indicative Occupational Exposure Limit Values.

 (\dot{EU}) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, 2019/1831/EU or 2024/869/EU:

(13) = The substance can cause sensitisation of the skin and of the respiratory tract (98/24/EC, 2004/37/CE), (14) = The substance can cause sensitisation of the skin (2004/37/CE), (15) = Substantial contribution to the total body burden via dermal exposure possible.

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.

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

These are specified by e.g. EN 14042.

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

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

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

Eye/face protection:

With danger of contact with eyes.

Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:

Chemical resistant protective gloves (EN ISO 374).

If applicable

Protective nitrile gloves (EN ISO 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 16523-1 were not obtained under practical conditions.



Page 11 of 27

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)

Revision date / version: 26.06.2025 / 0015

Replacing version dated / version: 13.03.2025 / 0014

Valid from: 26.06.2025 PDF print date: 24.06.2025

3-IN-ONE® Heavy Duty Cleaner Degreaser

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:

to manufacturer.

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

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. Active substance: liquid.

Colour: White Odour: Characteristic

Melting point/freezing point:

There is no information available on this parameter.

Boiling point or initial boiling point and boiling range: n.a

Flammability: Does not apply to aerosols.

Lower explosion limit: 0,8 Vol-% Upper explosion limit: 9,0 Vol-%

Flash point:

Auto-ignition temperature:

Does not apply to aerosols.

Does not apply to aerosols.

Decomposition temperature: There is no information available on this parameter.

pH: ~11

Kinematic viscosity:

Does not apply to aerosols.

Solubility: Mixable

Partition coefficient n-octanol/water (log value): Does not apply to mixtures.

Vapour pressure: There is no information available on this parameter.

Density and/or relative density:

Relative vapour density:

Does not apply to aerosols.

Does not apply to aerosols.

Particle characteristics:

Does not apply to aerosols.

9.2 Other information

Explosives: Possible build up of explosive/highly flammable vapour/air

mixture. Product is not explosive.

Oxidising liquids: No

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



Page 12 of 27

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)

Revision date / version: 26.06.2025 / 0015

Replacing version dated / version: 13.03.2025 / 0014

Valid from: 26.06.2025 PDF print date: 24.06.2025

3-IN-ONE® Heavy Duty Cleaner Degreaser

Heating, open flame, ignition sources

Pressure increase will result in danger of bursting.

10.5 Incompatible materials

Avoid contact with strong oxidizing agents.

10.6 Hazardous decomposition products

No decomposition when used as directed.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

3-IN-ONE® Heavy Duty Clear			11.74		T =	
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	ATE	>2000	mg/kg			calculated value
Acute toxicity, by dermal route:						n.d.a.
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 eye						n.d.a.
damage/irritation:						
Respiratory or skin						n.d.a.
sensitisation:						
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity -						n.d.a.
single exposure (STOT-SE):						
Specific target organ toxicity -						n.d.a.
repeated exposure (STOT-						
RE):						
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LD50	>18,5	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant, Repeated exposure may cause skin dryness or cracking.
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact)
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative, Analogous conclusion
Germ cell mutagenicity:				Human being	OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative, Analogous conclusion
Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative, Analogous conclusion



Page 13 of 27
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)
Revision date / version: 26.06.2025 / 0015
Replacing version dated / version: 13.03.2025 / 0014
Valid from: 26.06.2025

PDF print date: 24.06.2025

Germ cell mutagenicity:				Rat	OECD 478 (Genetic Toxicology - Rodent	Negative, Analogous
Germ cell mutagenicity:					dominant Lethal Test) OECD 479 (Genetic Toxicology - In Vitro Sister Chromatid	conclusion Negative, Analogous conclusion
					Exchange assay in Mammalian Cells)	Chinese hamster
Carcinogenicity:	NOAEC	1100	mg/m3	Mouse	OECD 453 (Combined Chronic Toxicity/Carcinogenicit y Studies)	Female
Carcinogenicity:	NOAEC	>= 2200	mg/m3	Mouse	OECD 453 (Combined Chronic Toxicity/Carcinogenicit y Studies)	Male
Reproductive toxicity:					OECD 414 (Prenatal Developmental Toxicity Study)	Negative, Analogous conclusion
Reproductive toxicity (Effects on fertility):	NOAEL	>= 3000	mg/kg bw/d	Rat	OECD 415 (One- Generation Reproduction Toxicity Study)	Male
Reproductive toxicity (Effects on fertility):	NOAEL	>= 1500	mg/kg bw/d	Rat	OECD 415 (One- Generation Reproduction Toxicity Study)	Female
Specific target organ toxicity - single exposure (STOT-SE):						May cause drowsiness or dizziness., STOT SE 3, H336
Specific target organ toxicity - repeated exposure (STOT- RE), oral:	NOAEL	3000	mg/kg/d	Rat	OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	Analogous conclusion
Specific target organ toxicity - repeated exposure (STOT- RE), inhalat.:	NOAEC	1444	ppm	Rat	OECD 413 (Subchronic Inhalation Toxicity - 90-Day Study)	Analogous conclusion
Aspiration hazard:						Yes
Symptoms:						unconsciousnes s, headaches, dizziness, discoloration of the skin, vomiting, diarrhoea

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
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)	
Skin corrosion/irritation:				Rabbit		Irritant
Serious eye				Rabbit	OECD 405 (Acute	Not irritant
damage/irritation:					Eye	
					Irritation/Corrosion)	
Respiratory or skin				Mouse	OECD 429 (Skin	Yes (skin
sensitisation:					Sensitisation - Local	contact)
					Lymph Node Assay)	
Germ cell mutagenicity:					OECD 471 (Bacterial	No
					Reverse Mutation	
					Test)	
Aspiration hazard:						Yes



Page 14 of 27
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)
Revision date / version: 26.06.2025 / 0015
Replacing version dated / version: 13.03.2025 / 0014
Valid from: 26.06.2025

PDF print date: 24.06.2025

Symptoms:			mucous
			membrane
			irritation

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	ATE	1200	mg/kg	J. J. Maria		
Acute toxicity, by dermal route:	LD50	2275	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	ATE	3	mg/l		Demai Toxicity)	Vapours
Acute toxicity, by inhalation:	ATE	0,5	mg/l/4h			Aerosol
Skin corrosion/irritation:	AIL	0,5	1119/1/411	Rabbit	Regulation (EC)	Skin Irrit. 2,
Skiii comosion/iintation.				Rappii	440/2008 B.4 (DERMAL IRRITATION/CORRO SION)	Product removes fat.
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Eye Irrit. 2
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact)
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:					OEĆD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
Germ cell mutagenicity:					OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative
Carcinogenicity:				Rat	OECD 451 (Carcinogenicity Studies)	Negative
Carcinogenicity:	NOAEC	125	ppm	Mouse	OECD 451 (Carcinogenicity Studies)	Negative
Reproductive toxicity:	NOAEL	720	mg/kg bw/d			
Specific target organ toxicity - repeated exposure (STOT- RE), oral:	NOAEL	<69	mg/kg bw/d	Rat	OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	
Specific target organ toxicity - repeated exposure (STOT- RE), dermal:	NOAEL	>150	mg/kg bw/d	Rabbit	OECD 411 (Subchronic Dermal Toxicity - 90-day Study)	
Aspiration hazard:					1	No



Page 15 of 27
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)
Revision date / version: 26.06.2025 / 0015

Replacing version dated / version: 13.03.2025 / 0014

Valid from: 26.06.2025 PDF print date: 24.06.2025

Symptoms:		acidosis,
		ataxia,
		breathing
		difficulties,
		respiratory
		distress,
		drowsiness,
		unconsciousnes
		s, annoyance, coughing,
		headaches,
		gastrointestinal
		disturbances,
		insomnia,
		mucous
		membrane
		irritation,
		dizziness,
		nausea

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	1378	mg/kg	Rat		
Acute toxicity, by oral route:	ATE	1378	mg/kg			
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rat	OECD 402 (Acute Dermal Toxicity)	Analogous conclusion
Acute toxicity, by inhalation:	LC50	>20,1	mg/l/4h			
Skin corrosion/irritation:			_	Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Risk of serious damage to eyes., Analogous conclusion
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Not sensitizising
Specific target organ toxicity - repeated exposure (STOT- RE):	NOAEL	250	mg/kg			

Ammonia						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	350	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	The toxicity is determined by the corrosivity of the product.
Acute toxicity, by inhalation:	LCLo	5000	ppm	Human being		
Serious eye damage/irritation:				Rabbit		Risk of serious damage to eyes.
Respiratory or skin sensitisation:				Guinea pig		Not sensitizising



Page 16 of 27
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)
Revision date / version: 26.06.2025 / 0015
Replacing version dated / version: 13.03.2025 / 0014
Valid from: 26.06.2025

PDF print date: 24.06.2025

Symptoms:		asthmatic symptoms, respiratory distress, unconsciousnes s, burning of the membranes of the nose and throat, vomiting, cornea opacity, coughing, cramps, circulatory
		circulatory collapse, shock, nausea

Petroleum gases, liquefied							
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes	
Acute toxicity, by inhalation:	LC50	>5	mg/l				
Skin corrosion/irritation:						Not irritant	
Serious eye						Not irritant	
damage/irritation:							
Respiratory or skin						No (skin	
sensitisation:						contact)	
Aspiration hazard:						No	

Isobutane						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by inhalation:	LC50	658	mg/l/4h	Rat		
Acute toxicity, by inhalation:	LC50	260000	ppmV/4h	Rat		Gasses, Male
Serious eye damage/irritation:				Rabbit		Not irritant
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:				Mammalian	OEĆD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEL	21,394	mg/l	Rat	OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Develop m. Tox. Screening Test)	
Aspiration hazard:						No
Symptoms:						unconsciousne s, frostbite, headaches, cramps, dizziness, nausea and vomiting.

Propane						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by inhalation:	LC50	658	mg/l/4h	Rat		
Acute toxicity, by inhalation:	LC50	260000	ppmV/4h	Rat		Gasses, Male, Analogous conclusion
Skin corrosion/irritation:						Not irritant
Serious eye damage/irritation:						Not irritant



Page 17 of 27
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)
Revision date / version: 26.06.2025 / 0015
Replacing version dated / version: 13.03.2025 / 0014
Valid from: 26.06.2025

PDF print date: 24.06.2025

Germ cell mutagenicity:					OECD 473 (In Vitro Mammalian Chromosome	Negative
					Aberration Test)	
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation	Negative
					Test)	
Reproductive toxicity (Developmental toxicity):	NOAEC	21,641	mg/l		OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Develop m. Tox. Screening Test)	
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEL	7,214	mg/l	Rat	OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Develop m. Tox. Screening Test)	
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	LOAEL	21,641	mg/l	Rat	OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Develop m. Tox. Screening Test)	
Aspiration hazard:					,	No
Symptoms:						breathing difficulties, unconsciousnes s, frostbite, headaches, cramps, mucous membrane irritation, dizziness, nausea and vomiting.

Butane						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by inhalation:	LC50	658	mg/l/4h	Rat		
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative
				typhimurium	Reverse Mutation	
					Test)	
Germ cell mutagenicity:					OECD 473 (In Vitro	Negative
					Mammalian	
					Chromosome	
					Aberration Test)	
Germ cell mutagenicity:				Human being	OECD 473 (In Vitro	Negative
					Mammalian	
					Chromosome	
					Aberration Test)	
Germ cell mutagenicity:				Rat	OECD 474	Negative
					(Mammalian	
					Erythrocyte	
					Micronucleus Test)	
Specific target organ toxicity -	NOAEC	21,394	mg/l	Rat	OECD 422	
repeated exposure (STOT-					(Combined Repeated	
RE), inhalat.:					Dose Tox. Study with	
					the	
					Reproduction/Develop	
					m. Tox. Screening	
					Test)	



Page 18 of 27

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)

Revision date / version: 26.06.2025 / 0015

Replacing version dated / version: 13.03.2025 / 0014

Valid from: 26.06.2025 PDF print date: 24.06.2025

3-IN-ONE® Heavy Duty Cleaner Degreaser

Aspiration hazard:			No
Symptoms:			ataxia,
			breathing
			difficulties,
			drowsiness,
			unconsciousnes
			s, frostbite,
			disturbed heart
			rhythm,
			headaches,
			cramps,
			intoxication,
			dizziness,
			nausea and
			vomiting.

11.2. Information on other hazards

3-IN-ONE® Heavy Duty C	leaner Degrease	r				
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Endocrine disrupting						Does not apply
properties:						to mixtures.
Other information:						No other
						relevant
						information
						available on
						adverse effects
						on health.

SECTION 12: Ecological information

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

3-IN-ONE® Heavy Duty	3-IN-ONE® Heavy Duty Cleaner Degreaser											
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes					
12.1. Toxicity to fish:							n.d.a.					
12.1. Toxicity to							n.d.a.					
daphnia:												
12.1. Toxicity to algae:							n.d.a.					



Page 19 of 27
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)
Revision date / version: 26.06.2025 / 0015
Replacing version dated / version: 13.03.2025 / 0014
Valid from: 26.06.2025

PDF print date: 24.06.2025

12.2 Deroietanas and	I			The
12.2. Persistence and				The
degradability:				surfactant(s)
				contained in
				this mixture
				complies(compl
				y) 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.
12.3. Bioaccumulative				n.d.a.
potential:				
12.4. Mobility in soil:				n.d.a.
12.5. Results of PBT				n.d.a.
and vPvB assessment				
12.6. Endocrine				Does not apply
disrupting properties:				to mixtures.
12.7. Other adverse				No information
effects:				available on
				other adverse
				effects on the
				environment.
Other information:				According to
				the recipe,
				contains no
				AOX.
		1	1	

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	NOELR	28d	0,13	mg/l	Oncorhynchus mykiss	QSAR	
12.1. Toxicity to fish:	LC50	96h	>1000	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC50	48h	>1000	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	ErC50	72h	>1000	mg/l	Pseudokirchnerie Ila subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	EbC50	72h	>1000	mg/l	Pseudokirchnerie Ila subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	NOELR	72h	100	mg/l	Raphidocelis subcapitata	OECD 201 (Alga, Growth Inhibition Test)	



Page 20 of 27

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878) Revision date / version: 26.06.2025 / 0015
Replacing version dated / version: 13.03.2025 / 0014
Valid from: 26.06.2025

PDF print date: 24.06.2025

12.1. Toxicity to algae:	NOELR	72h	3	mg/l	Pseudokirchnerie Ila subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	80	%		OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Readily biodegradable
12.3. Bioaccumulative potential:			5-6,7				High
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EL50	48h	0,95	mg/l			QSAR

Orange, sweet, ext.			T				
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	NOEC/NOEL	96h	4,0	mg/l	Brachydanio rerio	OECD 203	
						(Fish, Acute	
						Toxicity Test)	
12.1. Toxicity to fish:	EL50	96h	2,4-3,1	mg/l	Brachydanio rerio	OECD 203	
						(Fish, Acute	
						Toxicity Test)	
12.1. Toxicity to fish:	LC50	96h	0,7	mg/l	Pimephales	OECD 203	
					promelas	(Fish, Acute	
					'	Toxicity Test)	
12.1. Toxicity to	EC50	48h	0,67	mg/l	Daphnia magna	OECD 202	
daphnia:			, 0,01		2 aprilla magna	(Daphnia sp.	
аартта.						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to	NOEC/NOEL	48h	0,48	mg/l	Daphnia magna	OECD 202	
	NOEC/NOEL	4011	0,46	mg/i	Daprinia magna		
daphnia:						(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	50	mg/l	Desmodesmus	OECD 201	
					subspicatus	(Alga, Growth	
						Inhibition Test)	
12.1. Toxicity to algae:	EC50	72h	150	mg/l	Desmodesmus	OECD 201	
					subspicatus	(Alga, Growth	
					·	Inhibition Test)	
12.2. Persistence and		28d	100	%		OECD 301 E	Readily
degradability:						(Ready	biodegradable
aog. addomiy.						Biodegradability -	Diodogiadabio
						Modified OECD	
						Screening Test)	
12.2. Persistence and		28d	72-83,4	%		OECD 301 B	Readily
degradability:		20u	72-05,4	/6		(Ready	biodegradable
degradability.						Biodegradability -	biodegradable
						Co2 Evolution	
10 0 D' 1 1'	DOE		4.500			Test)	1 1
12.3. Bioaccumulative	BCF		1,502-				calculated
potential:			2,597				
12.4. Mobility in soil:							Product is
							slightly volatile
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
	1		1	1			vPvB substan



Page 21 of 27
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)
Revision date / version: 26.06.2025 / 0015
Replacing version dated / version: 13.03.2025 / 0014

Valid from: 26.06.2025 PDF print date: 24.06.2025

Other information:			Does not
			contain any
			organically
			bound
			halogens which
			can contribute
			to the AOX
			value in waste
			water.

2-Butoxyethanol Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	1474		Oncorhynchus	OECD 203	140162
12.1. TOXICITY TO TISH:	LUSU	901	14/4	mg/l			
					mykiss	(Fish, Acute	
10.1 =	11050/11051	04.1	100	"		Toxicity Test)	
12.1. Toxicity to fish:	NOEC/NOEL	21d	>100	mg/l	Brachydanio rerio	OECD 204	
						(Fish, Prolonged	
						Toxicity Test -	
						14-Day Study)	
12.1. Toxicity to	EC50	48h	1550	mg/l	Daphnia magna	OECD 202	
daphnia:				· ·		(Daphnia sp.	
•						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to	NOEC/NOEL	21d	100	mg/l	Daphnia magna	OECD 211	
	INOLO/INOLL	Ziu	100	1119/1	Daprillia magna	(Daphnia magna	
daphnia:							
						Reproduction	
40.4 T 1.77 1	5050	701	1010	/1	<u> </u>	Test)	
12.1. Toxicity to algae:	EC50	72h	1840	mg/l	Pseudokirchnerie	OECD 201	
					lla subcapitata	(Alga, Growth	
						Inhibition Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	286	mg/l	Pseudokirchnerie	OECD 201	
					lla subcapitata	(Alga, Growth	
						Inhibition Test)	
12.2. Persistence and		28d	95	%		OECD 301 E	Readily
degradability:				, 0		(Ready	biodegradable
aogradasty.						Biodegradability -	Diodogradabio
						Modified OECD	
						Screening Test)	
12.2. Persistence and		204	- 00	%		OECD 302 B	Doodily
		28d	>99	%			Readily
degradability:						(Inherent	biodegradable
						Biodegradability -	
						Zahn-	
						Wellens/EMPA	
						Test)	
12.3. Bioaccumulative	BCF		3,2				Slight
potential:							-
12.3. Bioaccumulative	Log Pow		0,81			OECD 107	Not to be
potential:			-,			(Partition	expected
potornan						Coefficient (n-	охроской
						octanol/water) -	
						Shake Flask	
10.4 Mobility in anily	H (Horard)		0.00000	otm*:== 0 /		Method)	
12.4. Mobility in soil:	H (Henry)		0,00000	atm*m3/			
10 F D 11 1 T D T			16	mol			
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB
							substance
Toxicity to bacteria:	EC10	16h	>700	mg/l	Pseudomonas	DIN 38412 T.8	
,					putida	_	

Alcohols, C9-11, ethoxylated							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	11	mg/l			
12.1. Toxicity to fish:	LC50	96h	5-7	mg/l	Oncorhynchus mykiss		



Page 22 of 27

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878) Revision date / version: 26.06.2025 / 0015

Replacing version dated / version: 13.03.2025 / 0014

Valid from: 26.06.2025 PDF print date: 24.06.2025

12.1. Toxicity to	EC50	48h	2,5	mg/l	Daphnia magna		
daphnia:							
12.1. Toxicity to daphnia:	EC50	48h	1-10	mg/l	Daphnia magna		
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	2,11	mg/l	Daphnia magna	QSAR	
12.1. Toxicity to algae:	EC50	72h	1,978	mg/l	Desmodesmus subspicatus	QSAR	
12.1. Toxicity to algae:	EC50	72h	1-10	mg/l	Skeletonema costatum		
12.2. Persistence and degradability:		28d	>60	%		OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	Readily biodegradable
12.2. Persistence and degradability:			99	%		OECD 302 B (Inherent Biodegradability - Zahn- Wellens/EMPA Test)	
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC50	4h	410	mg/l			Analogous conclusion
Water solubility:							Soluble

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

Petroleum gases, lique	Petroleum gases, liquefied							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes	
12.1. Toxicity to fish:	LC50	96h	147,54	mg/l		QSAR		
12.3. Bioaccumulative							Not to be	
potential:							expected	
12.5. Results of PBT							No PBT	
and vPvB assessment							substance, No	
							vPvB substance	

Isobutane							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	27,98	mg/l			
12.1. Toxicity to algae:	EC50	96h	7,71	mg/l			
12.2. Persistence and							Readily
degradability:							biodegradable
12.3. Bioaccumulative							A notable
potential:							biological
							accumulation
							potential is not
							to be expected
							(LogPow 1-3).



Page 23 of 27

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)

Revision date / version: 26.06.2025 / 0015

Replacing version dated / version: 13.03.2025 / 0014

Valid from: 26.06.2025 PDF print date: 24.06.2025

3-IN-ONE® Heavy Duty Cleaner Degreaser

12.5. Results of PBT				No PBT
and vPvB assessment				substance, No
				vPvB substance

Propane							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.3. Bioaccumulative potential:	Log Pow		2,28				A notable biological accumulation potential is not to be expected (LogPow 1-3).
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance

Butane							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	24,11	mg/l		QSAR	
12.1. Toxicity to daphnia:	LC50	48h	14,22	mg/l		QSAR	
12.3. Bioaccumulative potential:	Log Pow		2,89				A notable biological accumulation potential is not to be expected (LogPow 1-3).
12.4. Mobility in soil:							Not to be expected
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be

allocated under certain circumstances. (2014/955/EU)

07 06 01 aqueous washing liquids and mother liquors

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

20 01 29 detergents containing hazardous substances

Recommendation:

Sewage disposal shall be discouraged.

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

Transport by road/by rail (ADR/RID)

14.1. UN number or ID number:

14.2. UN proper shipping name:

UN 1950 AEROSOLS





Page 24 of 27

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)

Revision date / version: 26.06.2025 / 0015

Replacing version dated / version: 13.03.2025 / 0014

Valid from: 26.06.2025 PDF print date: 24.06.2025

3-IN-ONE® Heavy Duty Cleaner Degreaser

14.3. Transport hazard class(es): 2.1

14.4. Packing group:

14.5. Environmental hazards: Not applicable

Tunnel restriction code:

Classification code:

5F
LQ:
1 L
Transport category:
2

Transport by sea (IMDG-code)

14.1. UN number or ID number: 1950

14.2. UN proper shipping name:

UN 1950 AEROSOLS (NAPHTHA (PETROLEUM), D-LIMONENE)
14.3. Transport hazard class(es):
2.1
14.4. Packing group:

14.5. Environmental hazards:Not applicableMarine Pollutant:Not applicableEmS:F-D, S-U

Transport by air (IATA)

14.1. UN number or ID number: 1950

14.2. UN proper shipping name: UN 1950 Aerosols, flammable

14.3. Transport hazard class(es):
14.4. Packing group:

14.5. Environmental hazards: Not applicable



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.

14.7. Maritime transport in bulk according to IMO instruments

Freighted as packaged goods rather than in bulk, therefore not applicable.

Minimum amount regulations have not been taken into account.

Danger code and packing code on request.

Comply with special provisions.

SECTION 15: Regulatory information

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

Observe restrictions:

Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)!

Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)! Comply with trade association/occupational health regulations.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 1 - The following categories apply to this product (others may also need to be considered according to storage, handling etc.):

<u> </u>	<u>,, </u>		
Hazard categories	Notes to Annex I	Qualifying quantity (tonnes) of	Qualifying quantity (tonnes) of
		dangerous substances as	dangerous substances as
		referred to in Article 3(10) for	referred to in Article 3(10) for
		the application of - Lower-tier	the application of - Upper-tier
		requirements	requirements
P3a	11.1	150 (netto)	500 (netto)

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 2 - This product contains the substances listed below:

Entry Nr	Dangerous substances	Notes to Annex I	Qualifying quantity (tonnes) for the application of - Lower- tier requirements	Qualifying quantity (tonnes) for the application of - Upper- tier requirements
18	Liquefied flammable gases, Category 1 or 2 (including LPG) and natural gas	19	50	200

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.





(GB) (RL)

Page 25 of 27

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)

Revision date / version: 26.06,2025 / 0015

Replacing version dated / version: 13.03.2025 / 0014

Valid from: 26.06.2025 PDF print date: 24.06.2025

3-IN-ONE® Heavy Duty Cleaner Degreaser

Directive 2010/75/EU (VOC):

< 19,4 %

REGULATION (EC) No 648/2004

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

perfumes

LIMONENE

METHYLCHLOROISOTHIAZOLINONE/ METHYLISOTHIAZOLINONE

BENZISOTHIAZOLINONE **METHYLISOTHIAZOLINONE**

National requirements/regulations on safety and health protection must be applied when using work equipment.

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

EU F0009

Revised sections:

15

Employee training in handling dangerous goods is required.

These details refer to the product as it is delivered.

Employee instruction/training in handling hazardous materials is required.

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

Classification in accordance with regulation	Evaluation method used
(EC) No. 1272/2008 (CLP)	
Eye Irrit. 2, H319	Classification according to calculation procedure.
Skin Sens. 1, H317	Classification according to calculation procedure.
Aquatic Chronic 3, H412	Classification according to calculation procedure.
Aerosol 1, H222	Classification according to calculation procedure.
Aerosol 1, H229	Classification based on the form or physical state.

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

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

Eye Irrit. — Eye irritation

Skin Sens. — Skin sensitization

Aquatic Chronic — Hazardous to the aquatic environment - chronic

Aerosol — Aerosols

Flam. Liq. — Flammable liquid STOT SE — Specific target organ toxicity - single exposure - narcotic effects

Asp. Tox. — Aspiration hazard

Skin Irrit. — Skin irritation

Acute Tox. — Acute toxicity - inhalation

Acute Tox. — Acute toxicity - oral

(B) (RL

Page 26 of 27

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)

Revision date / version: 26.06.2025 / 0015

Replacing version dated / version: 13.03.2025 / 0014

Valid from: 26.06.2025 PDF print date: 24.06.2025

3-IN-ONE® Heavy Duty Cleaner Degreaser

Eye Dam. — Serious eye damage

Skin Corr. — Skin corrosion

Aquatic Acute — Hazardous to the aquatic environment - acute

Key literature references and sources for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended.

Guidelines for the preparation of safety data sheets as amended (ECHA).

Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA).

Safety data sheets for the constituent substances.

ECHA Homepage - Information about chemicals.

GESTIS Substance Database (Germany).

German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany).

EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended.

National Lists of Occupational Exposure Limits for each country as amended.

Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

Any abbreviations and acronyms used in this document:

acc., acc. to according, according to

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)

AOX Adsorbable organic halogen compounds

approx. approximately Art., Art. no. Article number

ASTM ASTM International (American Society for Testing and Materials)

ATE Acute Toxicity Estimate

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

BSEF The International Bromine Council

CAS Chemical Abstracts Service

CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)

CMR carcinogenic, mutagenic, reproductive toxic

DMEL Derived Minimum Effect Level

DNEL Derived No Effect Level

DOC Dissolved organic carbon

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

EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants)

EC European Community

ECHA European Chemicals Agency

ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect

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)

ErCx, EμCx, ErLx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants)

etc. et cetera

EU European Union

EVAL Ethylene-vinyl alcohol copolymer

Fax. Fax number gen. general

GHS Globally Harmonized System of Classification and Labelling of Chemicals

GWP Global warming potential

Koc Adsorption coefficient of organic carbon in the soil

Kow octanol-water partition coefficient

IARC International Agency for Research on Cancer

IATA International Air Transport Association

IBC (Code) International Bulk Chemical (Code)

IMDG-code International Maritime Code for Dangerous Goods

incl. including, inclusive

IUCLIDInternational Uniform Chemical Information Database

IUPAC International Union for Pure Applied Chemistry

® ®L

Page 27 of 27

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)

Revision date / version: 26.06.2025 / 0015

Replacing version dated / version: 13.03.2025 / 0014

Valid from: 26.06.2025 PDF print date: 24.06.2025

3-IN-ONE® Heavy Duty Cleaner Degreaser

LC50 Lethal Concentration to 50 % of a test population

LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)

Log Koc Logarithm of adsorption coefficient of organic carbon in the soil

Log Kow, Log Pow Logarithm of octanol-water partition coefficient

LQ Limited Quantities

MARPOL International Convention for the Prevention of Marine Pollution from Ships

mg/kg bw mg/kg body weight

mg/kg bw/d, mg/kg bw/day mg/kg body weight/day

mg/kg dw mg/kg dry weight mg/kg wwt mg/kg wet weight

n.a. not applicablen.av. not availablen.c. not checkedn.d.a. no data available

NIOSHNational Institute for Occupational Safety and Health (USA)

NLP No-longer-Polymer

NOEC, NOEL No Observed Effect Concentration/Level

OECD Organisation for Economic Co-operation and Development

org. organic

OSHA Occupational Safety and Health Administration (USA)

PBT persistent, bioaccumulative and toxic

PE Polyethylene

PNEC Predicted No Effect Concentration

ppm parts per million PVC Polyvinylchloride

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. 6/7/8/9xx-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)

SVHC Substances of Very High Concern

Tel. Telephone

TOC Total organic carbon

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

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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