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

Revised on / Version: 12.02.2014 / 0001

Replaces revision of / Version: 12.02.2014 / 0001

Valid from: 12.02.2014 PDF print date: 07.03.2014 3-IN-ONE® White Lithium Grease

# 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® White Lithium Grease

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

Lubricant

## **Uses advised against:**

No information available at present.

#### 1.3 Details of the supplier of the safety data sheet

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

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

Phone: 01-832 0006, Fax: 01-832 0016

web@team.ie

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

#### 1.4 Emergency telephone

Emergency information services / official advisory body:

#### Telephone number of the company in case of emergencies:

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

# Emergency information services / official advisory body:

## Telephone number of the company in case of emergencies:

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

#### **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

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

**Hazard class** Hazard category **Hazard statement** 

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)

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**

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

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.

#### Storage

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

EUH208-Contains (R)-p-mentha-1,8-diene. May produce an allergic reaction.

EUH066-Repeated exposure may cause skin dryness or cracking.

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

#### 2.3 Other hazards

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

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

Danger of bursting (explosion) when heated

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

May produce an allergic reaction.

# **SECTION 3: Composition/information on ingredients**

#### Aerosol

# 3.1 Substance

# n.a. 3.2 Mixture

Petroleum gases, liquified	
Registration number (REACH)	
Index	649-202-00-6
EINECS, ELINCS, NLP	270-704-2
CAS	CAS 68476-85-7
content %	1-65
Classification according to Directive 67/548/EEC	Extremely flammable, F+, R12
Classification according to Regulation (EC) 1272/2008 (CLP)	Flam. Gas 1, H220

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

Zinc alkyl dithiophosphate	
Registration number (REACH)	



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Index	
EINECS, ELINCS, NLP	272-028-3
CAS	CAS 68649-42-3
content %	0,1-<1
Classification according to Directive 67/548/EEC	Irritant, Xi, R36
	Dangerous for the environment, N, R51
	Dangerous for the environment, R53
Classification according to Regulation (EC) 1272/2008 (CLP)	Eye Irrit. 2, H319
	Aquatic Chronic 2, H411

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

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

#### **SECTION 4: First aid measures**

# 4.1 Description of first aid measures

#### Inhalation

Remove person from danger area.

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

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

#### Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

# Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

#### Ingestion

Typically no exposure pathway.

Rinse the mouth thoroughly with water.

Do not induce vomiting - give copious water to drink. Consult doctor immediately.

Danger of aspiration

In case of vomiting, keep head low so that the stomach content does not reach the lungs.

## 4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.

The following may occur:

Irritation of the respiratory tract

Coughing

Headaches

Dizziness

Effects/damages the central nervous system

Coordination disorders

with long-term contact:

Product removes fat.

Drying of the skin.

Dermatitis (skin inflammation)

Allergic reaction possible.

Ingestion:

Nausea

Vomiting

Danger of aspiration

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Oedema of the lungs

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

CO<sub>2</sub>

Extinction powder Water jet spray

Alcohol resistant foam

# Unsuitable extinguishing media

High volume water jet

#### 5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Toxic pyrolysis products.

Danger of explosion by prolonged heating.

Explosive vapour/air mixture

Dangerous vapours heavier than air.

In case of spreading near the ground, flashback to distance sources of ignition is possible.

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary

Cool container at risk with water.

Dispose of contaminated extinction water according to official regulations.

#### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

Remove possible causes of ignition - do not smoke.

Ensure sufficient supply of air.

Avoid inhalation, and contact with eyes or skin.

If applicable, caution - risk of slipping

# 6.2 Environmental precautions

Prevent penetration into drains, cellars, working pits or other places in which accumulation could be hazardous.

Prevent surface and ground-water infiltration, as well as ground penetration.

If accidental entry into drainage system occurs, inform responsible authorities.

# 6.3 Methods and material for containment and cleaning up

If spray or gas escapes, ensure ample fresh air is available.

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

Active substance:

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

#### 6.4 Reference to other sections

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

## **SECTION 7: Handling and storage**

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

#### 7.1 Precautions for safe handling

#### 7.1.1 General recommendations

Ensure good ventilation.

Avoid inhalation of the vapours.

Avoid contact with eyes or skin.

Keep away from sources of ignition - Do not smoke.

Take measures against electrostatic charging, if appropriate.

Do not use on hot surfaces.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.



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Observe directions on label and instructions for use. Use working methods according to operating instructions.

#### 7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

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

# 7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.

Not to be stored in gangways or stair wells.

Store product closed and only in original packing.

Do not store with flammable or self-igniting materials.

Observe special regulations for aerosols!

Store cool

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

Store in a well ventilated place.

Observe special storage conditions (in Germany, e.g., in accordance with the regulations in the "Betriebssicherheitsverordnung").

#### 7.3 Specific end use(s)

No information available at present.

# **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

Workplace exposure limit (WEL) of the total hydrocarbon solvent content of the mixture (RCP method according to EH40): 1200 mg/m3

© Chemical Name	Petroleum gases,	liquified				Content %:1-65
WEL-TWA: 1000 ppm (1750 m	g/m3) (Liquefied	WEL-STEL:	1250 ppm (21	80 mg/m3) (Liquefied		
petroleum gas (LPG))		petroleum gas	(LPG))			
BMGV:				Other information: -		
© Chemical Name	Petroleum gases,	liquified				Content %:1-65
OELV-8h: 1000 ppm (1800 mg/	′m3)	OELV-15min:	1250 ppm (2	250 mg/m3)		
BLV:				Other information: -		
Chemical Name	Hydrocarbons, C	11-C14, n-alkan	es, isoalkanes	, cyclics, < 2% aromatic	S	Content %:30- 50
WEL-TWA: 1200 mg/m3 (>=C7 branched chain alkanes)	normal and	WEL-STEL:	2(II) (AGW)			
BMGV:				Other information: -		
Chemical Name	Hydrocarbons, C	11-C14, n-alkan	es, isoalkanes	, cyclics, < 2% aromatic	S	Content %:30- 50
OELV-8h: 600 mg/m3 (AGW)		OELV-15min:	2(II) (AGW)			
BLV:				Other information: -		

- WEL-TWA = Workplace Exposure Limit Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). | WEL-STEL = Workplace Exposure Limit Short-term exposure limit (15-minute reference period). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.
- \*\* = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.
- OELV-8h = Occupational Exposure Limit Value (8-hour reference period). (IFV) = Inhalable Fraction and Vapour. (I) = Inhalable Fraction. (R) = Respirable Fraction. | OELV-15min = Occupational Exposure Limit Value (15-minute reference period). (IFV) = Inhalable Fraction and Vapour. (I) = Inhalable Fraction. (R) = Respirable Fraction. | BLV = Biological limit value | Other information: Carc1A, Carc1B = carcinogenic substance, Cat. 1A or 1B. Muta1A, Muta1B = mutagenic substance, Cat. 1A or 1B. Repr1A, Repr1B = Substances known to be toxic for reproduction, Cat. 1A or 1B. Sk = can be absorbed through skin. Asphx = asphyxiant. Sen = Respiratory sensitizer. BOELV = Binding Occupational Exposure Limit Values. IOELV = Indicative Occupational Exposure Limit Values.

#### 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.

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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:

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

Skin protection - Hand protection:

Solvent resistant protective gloves (EN 374).

If applicable

Protective Neoprene® / polychloroprene gloves (EN 374).

Minimum layer thickness in mm:

Permeation time (penetration time) in minutes:

>= 480

Protective nitrile gloves (EN 374)

Minimum layer thickness in mm:

0.4

Permeation time (penetration time) in minutes:

>= 480

Protective hand cream recommended.

Skin protection - Other:

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

Respiratory protection:

Normally not necessary.

If OES or MEL is exceeded.

Filter A2 P2 (EN 14387), code colour brown, white

At high concentrations:

Respiratory protection appliance (insulation device) (e.g. EN 137 or EN 138)

Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:

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

Aerosol, Substance: Liquid Physical state:

Colour: White Characteristic Odour: Odour threshold: Not determined pH-value: Not determined Melting point/freezing point: Not determined Not determined

Initial boiling point and boiling range:

Flash point: n.a. Evaporation rate: Not determined Flammability (solid, gas): Not determined Lower explosive limit: Not determined Upper explosive limit: Not determined Vapour pressure: Not determined



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Vapour density (air = 1): Vapours heavier than air.

Not determined Density: Bulk density: Not determined Solubility(ies): Not determined Water solubility: Not miscible Partition coefficient (n-octanol/water): Not determined Auto-ignition temperature: Not determined Decomposition temperature: Not determined Viscosity: Not determined

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

mixture. Product is not explosive.

Oxidising properties: No

9.2 Other information

Miscibility:

Fat solubility / solvent:

Conductivity:

Surface tension:

Solvents content:

Not determined
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).

Toxicity/effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
Acute toxicity, by oral route:						n.d.a.
Acute toxicity, by dermal						n.d.a.
route:						
Acute toxicity, by inhalation:						n.d.a.
Skin corrosion/irritation:						n.d.a.
Serious eye						n.d.a.
damage/irritation:						
Respiratory or skin						n.d.a.
sensitisation:						
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity -						n.d.a.
single exposure (STOT-SE):						
Specific target organ toxicity -						n.d.a.
repeated exposure (STOT-						
RĖ):						
Aspiration hazard:						n.d.a.



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Respiratory tract irritation:			n.d.a.
Repeated dose toxicity:			n.d.a.
Symptoms:			n.d.a.
Other information:			Classification
			according to calculation
			procedure.

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:						

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics							
Toxicity/effect	Endpoi	Value	Unit	Organism	Test method	Notes	
	nt			_			
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute		
					Oral Toxicity)		
Acute toxicity, by dermal	LD50	>5000	mg/kg	Rabbit	OECD 402 (Acute		
route:	1.050	5000	/ 0		Dermal Toxicity)		
Acute toxicity, by inhalation:	LC50	>5000	mg/m3	Rat	OECD 403 (Acute		
Skin corrosion/irritation:					Inhalation Toxicity) OECD 404 (Acute	Analogous conclusion	
Skin corrosion/imtation.					Dermal	Analogous conclusion Drying of the skin.,	
					Irritation/Corrosion)	Dermatitis (skin	
					imiation/Corrosion)	inflammation)	
Serious eye					OECD 405 (Acute	Analogous conclusion,	
damage/irritation:					Eye	Slightly irritant	
damage/imation.					Irritation/Corrosion)	Oligitity irritarit	
Respiratory or skin					OECD 406 (Skin	Not sensitizising	
sensitisation:					Sensitisation)	(Analogous conclusion)	
Germ cell mutagenicity:					OECD 471	Analogous conclusion,	
					(Bacterial Reverse	Negative	
					Mutation Test)		
Germ cell mutagenicity (in					,	Negative	
vivo):							
Carcinogenicity:					OECD 453	Analogous conclusion,	
					(Combined Chronic	Negative	
					Toxicity/Carcinogenic		
					ity Studies)		
Reproductive toxicity:					OECD 414 (Prenatal	Analogous conclusion,	
					Developmental	Negative	
					Toxicity Study)		
Specific target organ toxicity -						Analogous conclusion	
single exposure (STOT-SE):						No indications of such	
O					OFOD 400	an effect.	
Specific target organ toxicity -					OECD 408	Analogous conclusion,	
repeated exposure (STOT-					(Repeated Dose 90-	Not to be expected	
RE):					Day Oral Toxicity		
Aspiration hazard:					Study in Rodents)	Harmful: may cause	
Aspiration nazalu.						lung damage if	
						swallowed.	
Respiratory tract irritation:						Analogous conclusion	
recognition, tract initiation.						No indications of such	
						an effect.	
Symptoms:						drying of the skin.,	
- y						headaches, fatigue,	
						dizziness, nausea	

Zinc alkyl dithiophosphate						
Toxicity/effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
Respiratory or skin sensitisation:				Guinea pig		Not sensitizising



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Symptoms:			drying of the skin.,
			diarrhoea nausea

Toxicity/effect	Endpoi nt	Value	Unit	Organism	Test method	Notes
Symptoms:						diarrhoea, rash, itching, gastrointestinal disturbances, mucous membrane irritation nausea and vomiting.

# **SECTION 12: Ecological information**

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							Isolate as much as
degradability:							possible with an oil
							separator.
Bioaccumulative							n.d.a.
potential:							
Mobility in soil:							n.d.a.
Results of PBT and							n.d.a.
vPvB assessment							
Other adverse effects:							n.d.a.
Other information:							According to the recipe, contains no AOX.

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

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



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Zinc alkyl dithiophosphate							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50	96h	1-35	mg/l	Pimephales promelas	OECD 203 (Fish, Acute Toxicity Test)	
Toxicity to daphnia:	EC50	48h	1-1,5	mg/l	Daphnia magna		
Toxicity to bacteria:	EC50	3h	11-36	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

# For the substance / mixture / residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2001/118/EC, 2001/119/EC, 2001/573/EC)

07 06 99 wastes not otherwise specified

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

Pay attention to local and national official regulations

E.g. suitable incineration plant.

# 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

**General statements** 

UN proper shipping name: Aerosols, flammable Transport hazard class(es):

Packing group: Environmental hazards:

# **SECTION 14: Transport information**

2.1

Not applicable

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:	Not applicable	
Tunnel restriction code:	D	
Transport by sea (IMDG-code)		
UN proper shipping name:		
AEROSOLS		•
Transport hazard class(es):	2.1	
Packing group:	-	
EmS:	F-D, S-U	
Marine Pollutant:	n.a	
Environmental hazards:	Not applicable	
Transport by air (IATA)		
/		



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## Special precautions for user

Persons employed in transporting dangerous goods must be trained.

All persons involved in transporting must observe safety regulations.

Precautions must be taken to prevent damage.

# Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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

Minimum amount regulations have not been taken into account.

Danger code and packing code on request.

# **SECTION 15: Regulatory information**

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

For classification and labelling see Section 2.

Observe restrictions:

Yes

Comply with trade association/occupational health regulations.

Observe youth employment law (German regulation).

VOC (1999/13/EC):

~83 % w/w

# 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

# **SECTION 16: Other information**

These details refer to the product as it is delivered.

EUF0007

Revised sections:

n.a.

# 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)	
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.

12 Extremely flammable.

36 Irritating to eyes.

38 Irritating to skin.

43 May cause sensitization by skin contact.

50 Very toxic to aquatic organisms.

51 Toxic to aquatic organisms.

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

65 Harmful: may cause lung damage if swallowed.

66 Repeated exposure may cause skin dryness or cracking.

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

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.

H220 Extremely flammable gas.

Aerosol — Aerosols

Flam. Gas — Flammable gases (including chemically unstable gases) Asp. Tox. — Aspiration hazard

Eye Irrit. — Eye irritation

Aquatic Chronic — Hazardous to the aquatic environment - chronic

Flam. Liq. — Flammable liquid Skin Irrit. — Skin irritation

Skin Sens. — Skin sensitization

(GB) (RL)

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Aquatic Acute — Hazardous to the aquatic environment - acute

# Any abbreviations and acronyms used in this document:

AC **Article Categories** 

according, according to acc., acc. 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

approximately approx. 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)

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

body weight bw

Chemical Abstracts Service CAS

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

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

ΕČ **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

European Norms ΕN

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

Globally Harmonized System of Classification and Labelling of Chemicals GHS

GWP Global warming potential

**HET-CAM** Hen's Egg Test - Chorionallantoic Membrane

**HGWP Halocarbon Global Warming Potential** 

IARC International Agency for Research on Cancer

IATA International Air Transport Association

IBC Intermediate Bulk Container

IBC (Code) International Bulk Chemical (Code)

IC Inhibitory concentration

IMDG-code International Maritime Code for Dangerous Goods

incl. including, inclusive

**IUCLID** International Uniform ChemicaL Information Database

LC lethal concentration B R.

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LC50 lethal concentration 50 percent kill

LCLo lowest published lethal concentration LD Lethal Dose of a chemical

LD50 Lethal Dose, 50% kill LDLo Lethal Dose Low

LOAELLowest Observed Adverse Effect Level LOEC Lowest Observed Effect Concentration

LOEL Lowest Observed Effect Level

LQ Limited Quantities

MARPOL International Convention for the Prevention of Marine Pollution from Ships

n.a. not applicablen.av. not availablen.c. not checkedn.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

PE Polyethylene

PNEC Predicted No Effect Concentration POCP Photochemical ozone creation potential

ppm parts per million
PROC Process category
PTFE Polytetrafluorethylene

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

REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.

RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)

SADT Self-Accelerating Decomposition Temperature

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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