

Page 1 of 16 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 05.10.2018 / 0016 Replacing version dated / version: 29.06.2018 / 0015 Valid from: 05.10.2018 PDF print date: 08.10.2018 Start Fix 200 ml Art.: 20768

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

Start Fix 200 ml Art.: 20768

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

Engine start-aid Sector of use [SU]:

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SU 3 - Industrial uses: Uses of substances as such or in preparations at industrial sites

SU21 - Consumer uses: Private households (=general public = consumers)

SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Chemical product category [PC]:

PC13 - Fuels

Process category [PROC]:

PROC 1 - Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. PROC 2 - Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC 7 - Industrial spraying

PROC 8a - Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC 8b - Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC 9 - Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

PROC11 - Non industrial spraying

PROC16 - Use of fuels

Article Categories [AC]:

AC99 - Not required.

Environmental Release Category [ERC]:

ERC 4 - Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

ERC 7 - Use of functional fluid at industrial site

ERC 8a - Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)

ERC 8d - Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

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LIQUI MOLY GmbH, Jerg-Wieland-Str. 4, 89081 Ulm-Lehr, Germany Phone:(+49) 0731-1420-0, Fax:(+49) 0731-1420-88

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:

Telephone number of the company in case of emergencies:

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture



Page 2 of 16

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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 05.10.2018 / 0016 Replacing version dated / version: 29.06.2018 / 0015 Valid from: 05.10.2018 PDF print date: 08.10.2018 Start Fix 200 ml Art.: 20768

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

Hazard class	Hazard category	Hazard statement
Skin Irrit.	2	H315-Causes skin irritation.
STOT SE	3	H336-May cause drowsiness or dizziness.
Aquatic Chronic	3	H412-Harmful to aquatic life with long lasting effects.
Aerosol	1	H222-Extremely flammable aerosol.
Asp. Tox.	1	H304-May be fatal if swallowed and enters airways.
Aerosol	1	H229-Pressurised container: May burst if heated.

2.2 Label elements

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



Danger

H315-Causes skin irritation. H336-May cause drowsiness or dizziness. 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. P271-Use only outdoors or in a well-ventilated area. P280-Wear protective gloves.

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

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

P501-Dispose of contents / container to special waste collection point.

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

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

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 %).

SECTION 3: Composition/information on ingredients

Aerosol 3.1 Substance

3.2 Mixture

diethyl ether	Substance for which an EU exposure limit value applies.
Registration number (REACH)	01-2119535785-29-XXXX
Index	603-022-00-4
EINECS, ELINCS, NLP	200-467-2
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Page 3 of 16

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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 05.10.2018 / 0016 Replacing version dated / version: 29.06.2018 / 0015 Valid from: 05.10.2018 PDF print date: 08.10.2018 Start Fix 200 ml Art.: 20768

CAS	60-29-7
content %	25-<50
Classification according to Regulation (EC) 1272/2008 (CLP)	Flam. Liq. 1, H224
	Acute Tox. 4, H302
	STOT SE 3, H336
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	
Registration number (REACH)	01-2119475514-35-XXXX
Index	
EINECS, ELINCS, NLP	921-024-6 (REACH-IT List-No.)
CAS	
content %	10-<25
Classification according to Regulation (EC) 1272/2008 (CLP)	Flam. Liq. 2, H225

	STOT SE 3, H336
	Aquatic Chronic 2, H411
Carbon dioxide	Substance for which an EU exposure limit value applies.
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP	204-696-9
CAS	124-38-9
content %	1-<5
Classification according to Pogulation (EC) 1272/2008 (CLP)	

Asp. Tox. 1, H304 Skin Irrit. 2, H315

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

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.

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

Remove person from danger area.

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

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

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

Keep Data Sheet available.

Ingestion

Call doctor immediately - have Data Sheet available. Do not induce vomiting.

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 Effects/damages the central nervous system With long-term contact: Dermatitis (skin inflammation) Drying of the skin. 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**



Page 4 of 16 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 05.10.2018 / 0016 Replacing version dated / version: 29.06.2018 / 0015 Valid from: 05.10.2018 PDF print date: 08.10.2018 Start Fix 200 ml Art.: 20768

Symptomatic treatment.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

CO₂ Extinction powder 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 Hydrocarbons Toxic gases Danger of bursting (explosion) when heated Explosive vapour/air or gas/air mixtures. 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.

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.

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.

6.3 Methods and material for containment and cleaning up

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

Active substance:

Soak up with absorbent material (e.g. universal binding agent) 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.

Keep away from sources of ignition - Do not smoke.

Take measures against electrostatic charging, if appropriate.

Do not use on hot surfaces. Avoid contact with eyes or skin.

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.



Page 5 of 16 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 05.10.2018 / 0016 Replacing version dated / version: 29.06.2018 / 0015 Valid from: 05.10.2018 PDF print date: 08.10.2018 Start Fix 200 ml Art.: 20768

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. Observe special regulations for aerosols! Observe special storage conditions. Keep protected from direct sunlight and temperatures over 50°C. Store in a well ventilated place. Store cool.

7.3 Specific end use(s)

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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): 600 mg/m3

Chemical Name	diethyl ether				Content %:25-
WEL-TWA: 100 ppm (310 mg/m3)	-	WEL-STEL: 200 ppm (620 mg	/m3) (W/EL) 200 ppm		<50
(308 mg/m3) (EU)	(WEE), 100 ppin	(616 mg/m3) (EU)	/mo) (WEE), 200 ppm		
Monitoring procedures:	-	Compur - KITA-107 SA (549 095)			
	-	Compur - KITA-107 U (549 103)			
	-	Draeger - Diethyl Ether 100/a (67 3	0 501)		
		MTA/MA-047/A01 (Determination c			
		butyl ether) in air - Charcoal tube m		aphy.) - 2	001 - EU project
	-	BC/CEN/ENTR/000/2002-16 card 6			
BMGV:			Other information:		
^(B) Ohemiaal Nama	Librature earth area . Cr				Content %:10-
Chemical Name	Hydrocarbons, Ce	6-C7, n-alkanes, isoalkanes, cyclics	, <5% n-nexane		<25
WEL-TWA: 600 mg/m3		WEL-STEL:			
Monitoring procedures:	-	Compur - KITA-187 S (551 174)			
BMGV:				/EL acc. 1	to RCP-method,
			EH40)		
Chemical Name	Carbon dioxide				Content %:1-<5
WEL-TWA: 5000 ppm (9150 mg/m	n3) (WEL), 5000	WEL-STEL: 15000 ppm (2740	0 mg/m3) (WEL)		
ppm (9000 mg/m3) (EU)					
Monitoring procedures:	-	Compur - KITA-126 B (549 475)			
	-	Compur - KITA-126 SA (549 467)			
	-	Compur - KITA-126 SB (548 816)			
	-	Compur - KITA-126 SF (549 491)			
	-	Compur - KITA-126 SG (550 210)			
	-	Compur - KITA-126 SH (549 509)			
	-	Compur - KITA-126 UH (549 517)	4 04 044)		
	-	Draeger - Carbon Dioxide 100/a (8)			
	-	Draeger - Carbon Dioxide 0,1%/a (Draeger - Carbon Dioxide 0,5%/a (
		Draeger - Carbon Dioxide 0,3 % a (Cl			
		Draeger - Carbon Dioxide 1/%/a (Cl			
	-	OSHA ID-172 (Carbon dioxide in w		1990	
	-	NIOSH 6603 (Carbon dioxide) - 199		1000	
BMGV:			Other information:		
Chemical Name	Hydrocarbons, C3	2_1			Content %:
WEL-TWA: 1000 ppm (ACGIH)	riguiocarbons, Ca	WEL-STEL: 1250 ppm (2180 r	ma/m3) (Liquefied		Content %.
		petroleum gas (LPG))	ng/mo/ (Liquelleu		
Monitoring procedures:					
merine procedures.					



Page 6 of 16 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 05.10.2018 / 0016 Replacing version dated / version: 29.06.2018 / 0015 Valid from: 05.10.2018 PDF print date: 08.10.2018 Start Fix 200 ml Art.: 20768

BMGV: ---

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Other information: ---

B WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).

(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).

(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/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. 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.

8.2 Exposure controls

Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	2	mg/l	
	Environment - sediment		PNEC	0,2	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	1,65	mg/l	
	Environment - sewage treatment plant		PNEC	4,2	mg/l	
	Environment - sediment, freshwater		PNEC	9,14	mg/kg dw	
	Environment - sediment, marine		PNEC	0,914	mg/kg dw	
	Environment - soil		PNEC	0,66	mg/kg dw	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	54,5	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	15,6	mg/kg bw/day	
Consumer	Human - oral	Long term, systemic effects	DNEL	15,6	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	308	mg/m3	
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	616	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	44	mg/kg bw/day	

rea of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
Consumer	Human - dermal	Long term, systemic effects	DNEL	699	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	608	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	699	mg/kg bw/day	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	773	mg/kg bw/day	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	300	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	2035	mg/m3	

8.2.1 Appropriate engineering controls



Page 7 of 16 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 05.10.2018 / 0016 Replacing version dated / version: 29.06.2018 / 0015 Valid from: 05.10.2018 PDF print date: 08.10.2018 Start Fix 200 ml Art.: 20768

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. BS EN 14042.

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

Skin protection - Hand protection: Protective nitrile gloves (EN 374) Minimum layer thickness in mm: 0,35 Permeation time (penetration time) in minutes: 30

Protective hand cream recommended.

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions. The recommended maximum wearing time is 50% of breakthrough time.

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. Gas mask filter AX (EN 14387), code colour brown. At high concentrations: Respiratory protection appliance (insulation device) (e.g. EN 137 or EN 138)

Thermal hazards: Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents. Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account. Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls

No information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: Colour: Odour: Odour threshold: pH-value: Aerosol. Active substance: liquid. Colourless Characteristic Not determined Not determined



Page 8 of 16 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 05.10.2018 / 0016 Replacing version dated / version: 29.06.2018 / 0015 Valid from: 05.10.2018 PDF print date: 08.10.2018

Start Fix 200 ml Art.: 20768

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Melting point/freezing point: Initial boiling point and boiling range: Flash point: Evaporation rate: Flammability (solid, gas): Lower explosive limit: Upper explosive limit: Vapour pressure: Vapour density (air = 1): Density: Bulk density: Solubility(ies): Water solubility: Partition coefficient (n-octanol/water): Auto-ignition temperature: Decomposition temperature: Viscosity: Explosive properties: Oxidising properties:

9.2 Other information

Miscibility: Fat solubility / solvent: Conductivity: Surface tension: Solvents content: Not determined Not determined Not determined Not determined O,6 Vol-% Not determined Not determined Not determined O,61 g/ml n.a. Not determined partially Not determined >150 °C (Ignition temperature)

When using: development of explosive vapour/air mixture possible.

No Not determined Not determined Not determined Not determined

Not determined

Not determined

SECTION 10: Stability and reactivity

10.1 Reactivity

The product has not been tested.

10.2 Chemical stability

Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

No dangerous reactions are known.

10.4 Conditions to avoid

Heating, open flame, ignition sources Pressure increase will result in danger of bursting.

10.5 Incompatible materials

Avoid contact with oxidizing agents.

10.6 Hazardous decomposition products

No decomposition when used as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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

Start Fix 200 ml						
Art.: 20768						
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:						n.d.a.
Skin corrosion/irritation:						n.d.a.
Serious eye damage/irritation:						n.d.a.
Respiratory or skin						n.d.a.
sensitisation:						
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.



Replacing version dated / versior	18 / 0016	No 1907/2006	, , , , , , , , , , , , , , , , , , , ,			
Valid from: 05.10.2018	1. 20.00.2010	, 0010				
PDF print date: 08.10.2018						
Start Fix 200 ml						
Art.: 20768						
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.
Redeal at least						
diethyl ether Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	1215	mg/kg	Rat	rest method	NOLES
Acute toxicity, by dermal route:	LD50	>20000	mg/kg	Rabbit	OECD 402 (Acute	
Acute toxicity, by definial route.	LDJU	>20000	iiig/kg	Πασοπ	Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>20	mg/l/4h	Rat	Bernar reviewy	
Skin corrosion/irritation:	2000	- 20		Rabbit	OECD 404 (Acute	Not irritant
					Dermal	
					Irritation/Corrosion)	
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye	Not irritant
					Irritation/Corrosion)	
Respiratory or skin				Mouse	OECD 429 (Skin	Not sensitizising
sensitisation:					Sensitisation - Local	
					Lymph Node Assay)	
Germ cell mutagenicity:					OECD 471 (Bacterial	Negative
					Reverse Mutation Test)	
Aspiration hazard:						No
		cyclics. <5%	n-hexane			
Hydrocarbons, C6-C7, n-alkane	es, isoalkanes					
Hydrocarbons, C6-C7, n-alkane Toxicity / effect			Unit	Organism	Test method	Notes
Toxicity / effect	es, isoalkanes Endpoint LD50	Value >5000	Unit ma/ka	Organism Rat	Test method OECD 401 (Acute Oral	Notes
	Endpoint	Value	Unit mg/kg		OECD 401 (Acute Oral Toxicity)	Notes
Toxicity / effect	Endpoint	Value			OECD 401 (Acute Oral Toxicity) OECD 402 (Acute	Notes
Toxicity / effect Acute toxicity, by oral route: Acute toxicity, by dermal route:	Endpoint LD50	Value >5000	mg/kg mg/kg	Rat	OECD 401 (Acute Oral Toxicity) OECD 402 (Acute Dermal Toxicity)	
Toxicity / effect Acute toxicity, by oral route:	Endpoint LD50	Value >5000	mg/kg	Rat	OECD 401 (Acute Oral Toxicity) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute	Vapours
Toxicity / effectAcute toxicity, by oral route:Acute toxicity, by dermal route:Acute toxicity, by inhalation:	Endpoint LD50 LD50	Value >5000 >2000	mg/kg mg/kg	Rat Rat Rat	OECD 401 (Acute Oral Toxicity) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity)	Vapours
Toxicity / effect Acute toxicity, by oral route: Acute toxicity, by dermal route:	Endpoint LD50 LD50	Value >5000 >2000	mg/kg mg/kg	Rat Rat	OECD 401 (Acute Oral Toxicity) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute	
Toxicity / effectAcute toxicity, by oral route:Acute toxicity, by dermal route:Acute toxicity, by inhalation:	Endpoint LD50 LD50	Value >5000 >2000	mg/kg mg/kg	Rat Rat Rat	OECD 401 (Acute Oral Toxicity) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal	Vapours
Toxicity / effectAcute toxicity, by oral route:Acute toxicity, by dermal route:Acute toxicity, by inhalation:Skin corrosion/irritation:	Endpoint LD50 LD50	Value >5000 >2000	mg/kg mg/kg	Rat Rat Rat Rabbit	OECD 401 (Acute Oral Toxicity) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosion)	Vapours Irritant
Toxicity / effectAcute toxicity, by oral route:Acute toxicity, by dermal route:Acute toxicity, by inhalation:	Endpoint LD50 LD50	Value >5000 >2000	mg/kg mg/kg	Rat Rat Rat	OECD 401 (Acute Oral Toxicity)OECD 402 (Acute Dermal Toxicity)OECD 403 (Acute Inhalation Toxicity)OECD 404 (Acute Dermal Irritation/Corrosion)OECD 405 (Acute Eye	Vapours Irritant Mild irritant
Toxicity / effectAcute toxicity, by oral route:Acute toxicity, by dermal route:Acute toxicity, by inhalation:Skin corrosion/irritation:	Endpoint LD50 LD50	Value >5000 >2000	mg/kg mg/kg	Rat Rat Rat Rabbit	OECD 401 (Acute Oral Toxicity) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosion)	Vapours Irritant Mild irritant (Analogous
Toxicity / effect Acute toxicity, by oral route: Acute toxicity, by dermal route: Acute toxicity, by inhalation: Skin corrosion/irritation: Serious eye damage/irritation:	Endpoint LD50 LD50	Value >5000 >2000	mg/kg mg/kg	Rat Rat Rat Rabbit Rabbit	OECD 401 (Acute Oral Toxicity)OECD 402 (Acute Dermal Toxicity)OECD 403 (Acute Inhalation Toxicity)OECD 404 (Acute Dermal Irritation/Corrosion)OECD 405 (Acute Eye Irritation/Corrosion)	Vapours Irritant Mild irritant (Analogous conclusion)
Toxicity / effect Acute toxicity, by oral route: Acute toxicity, by dermal route: Acute toxicity, by inhalation: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin	Endpoint LD50 LD50	Value >5000 >2000	mg/kg mg/kg	Rat Rat Rat Rabbit	OECD 401 (Acute Oral Toxicity)OECD 402 (Acute Dermal Toxicity)OECD 403 (Acute Inhalation Toxicity)OECD 404 (Acute Dermal Irritation/Corrosion)OECD 405 (Acute Eye Irritation/Corrosion)OECD 406 (Skin	Vapours Irritant Mild irritant (Analogous conclusion)
Toxicity / effect Acute toxicity, by oral route: Acute toxicity, by dermal route: Acute toxicity, by inhalation: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitisation:	Endpoint LD50 LD50	Value >5000 >2000	mg/kg mg/kg	Rat Rat Rat Rabbit Rabbit	OECD 401 (Acute Oral Toxicity) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosion) OECD 405 (Acute Eye Irritation/Corrosion) OECD 406 (Skin Sensitisation)	Vapours Irritant Mild irritant (Analogous conclusion) No (skin contac
Toxicity / effect Acute toxicity, by oral route: Acute toxicity, by dermal route: Acute toxicity, by inhalation: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin	Endpoint LD50 LD50	Value >5000 >2000	mg/kg mg/kg	Rat Rat Rat Rabbit Rabbit	OECD 401 (Acute Oral Toxicity) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosion) OECD 405 (Acute Eye Irritation/Corrosion) OECD 406 (Skin Sensitisation) OECD 471 (Bacterial	Vapours Irritant Mild irritant (Analogous conclusion) No (skin contac Analogous
Toxicity / effect Acute toxicity, by oral route: Acute toxicity, by dermal route: Acute toxicity, by inhalation: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitisation:	Endpoint LD50 LD50	Value >5000 >2000	mg/kg mg/kg	Rat Rat Rat Rabbit Rabbit	OECD 401 (Acute Oral Toxicity) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosion) OECD 405 (Acute Eye Irritation/Corrosion) OECD 406 (Skin Sensitisation)	Vapours Irritant Mild irritant (Analogous conclusion) No (skin contac Analogous conclusion,
Toxicity / effect Acute toxicity, by oral route: Acute toxicity, by dermal route: Acute toxicity, by inhalation: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitisation: Germ cell mutagenicity:	Endpoint LD50 LD50	Value >5000 >2000	mg/kg mg/kg	Rat Rat Rat Rabbit Rabbit	OECD 401 (Acute Oral Toxicity) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosion) OECD 405 (Acute Eye Irritation/Corrosion) OECD 406 (Skin Sensitisation) OECD 471 (Bacterial	Vapours Irritant Mild irritant (Analogous conclusion) No (skin contac Analogous
Toxicity / effect Acute toxicity, by oral route: Acute toxicity, by dermal route: Acute toxicity, by inhalation: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitisation:	Endpoint LD50 LD50	Value >5000 >2000	mg/kg mg/kg	Rat Rat Rat Rabbit Rabbit	OECD 401 (Acute Oral Toxicity) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosion) OECD 405 (Acute Eye Irritation/Corrosion) OECD 406 (Skin Sensitisation) OECD 471 (Bacterial	Vapours Irritant Mild irritant (Analogous conclusion) No (skin contac Analogous conclusion, Negative
Toxicity / effect Acute toxicity, by oral route: Acute toxicity, by dermal route: Acute toxicity, by inhalation: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitisation: Germ cell mutagenicity: Carcinogenicity:	Endpoint LD50 LD50	Value >5000 >2000	mg/kg mg/kg	Rat Rat Rat Rabbit Rabbit	OECD 401 (Acute Oral Toxicity) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosion) OECD 405 (Acute Eye Irritation/Corrosion) OECD 406 (Skin Sensitisation) OECD 471 (Bacterial Reverse Mutation Test) OECD 414 (Prenatal Developmental Toxicity)	Vapours Irritant Mild irritant (Analogous conclusion) No (skin contac Analogous conclusion, Negative Negative
Toxicity / effect Acute toxicity, by oral route: Acute toxicity, by dermal route: Acute toxicity, by inhalation: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitisation: Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity:	Endpoint LD50 LD50	Value >5000 >2000	mg/kg mg/kg	Rat Rat Rat Rabbit Rabbit	OECD 401 (Acute Oral Toxicity) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosion) OECD 405 (Acute Eye Irritation/Corrosion) OECD 406 (Skin Sensitisation) OECD 471 (Bacterial Reverse Mutation Test) OECD 414 (Prenatal	Vapours Irritant Mild irritant (Analogous conclusion) No (skin contac Analogous conclusion, Negative Negative Analogous
Toxicity / effect Acute toxicity, by oral route: Acute toxicity, by dermal route: Acute toxicity, by inhalation: Skin corrosion/irritation: Serious eye damage/irritation: Serious eye damage/irritation: Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity: Specific target organ toxicity -	Endpoint LD50 LD50	Value >5000 >2000	mg/kg mg/kg	Rat Rat Rat Rabbit Rabbit	OECD 401 (Acute Oral Toxicity) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosion) OECD 405 (Acute Eye Irritation/Corrosion) OECD 406 (Skin Sensitisation) OECD 471 (Bacterial Reverse Mutation Test) OECD 414 (Prenatal Developmental Toxicity)	Vapours Irritant Mild irritant (Analogous conclusion) No (skin contac Analogous conclusion, Negative Negative Analogous conclusion, Negative Magative May cause
Toxicity / effect Acute toxicity, by oral route: Acute toxicity, by dermal route: Acute toxicity, by inhalation: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitisation: Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity:	Endpoint LD50 LD50	Value >5000 >2000	mg/kg mg/kg	Rat Rat Rat Rabbit Rabbit	OECD 401 (Acute Oral Toxicity) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosion) OECD 405 (Acute Eye Irritation/Corrosion) OECD 406 (Skin Sensitisation) OECD 471 (Bacterial Reverse Mutation Test) OECD 414 (Prenatal Developmental Toxicity)	Vapours Irritant Mild irritant (Analogous conclusion) No (skin contac Analogous conclusion, Negative Analogous conclusion, Negative Analogous conclusion, Negative May cause drowsiness or
Toxicity / effect Acute toxicity, by oral route: Acute toxicity, by dermal route: Acute toxicity, by dermal route: Acute toxicity, by inhalation: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitisation: Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity: Specific target organ toxicity - single exposure (STOT-SE):	Endpoint LD50 LD50	Value >5000 >2000	mg/kg mg/kg	Rat Rat Rat Rabbit Rabbit	OECD 401 (Acute Oral Toxicity) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosion) OECD 405 (Acute Eye Irritation/Corrosion) OECD 406 (Skin Sensitisation) OECD 471 (Bacterial Reverse Mutation Test) OECD 414 (Prenatal Developmental Toxicity)	Vapours Irritant Mild irritant (Analogous conclusion) No (skin contac Analogous conclusion, Negative Analogous conclusion, Negative Analogous conclusion, Negative May cause drowsiness or dizziness.
Toxicity / effect Acute toxicity, by oral route: Acute toxicity, by dermal route: Acute toxicity, by inhalation: Skin corrosion/irritation: Serious eye damage/irritation: Serious eye damage/irritation: Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity: Specific target organ toxicity -	Endpoint LD50 LD50	Value >5000 >2000	mg/kg mg/kg	Rat Rat Rat Rabbit Rabbit	OECD 401 (Acute Oral Toxicity) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosion) OECD 405 (Acute Eye Irritation/Corrosion) OECD 406 (Skin Sensitisation) OECD 471 (Bacterial Reverse Mutation Test) OECD 414 (Prenatal Developmental Toxicity)	Vapours Irritant Mild irritant (Analogous conclusion) No (skin contac Analogous conclusion, Negative Analogous conclusion, Negative Analogous conclusion, Negative May cause drowsiness or



Page 10 of 16 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 05.10.2018 / 0016 Replacing version dated / version: 29.06.2018 / 0015 Valid from: 05.10.2018 PDF print date: 08.10.2018 Start Fix 200 ml Art.: 20768

Symptoms:			drowsiness, unconsciousness , heart/circulatory disorders, headaches, cramps, drowsiness, mucous membrane irritation, dizziness, nausea and vomiting.
Specific target organ toxicity - single exposure (STOT-SE), inhalative:			Not irritant (respiratory tract).

Hydrocarbons, C3-4						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Symptoms:						malaise, nausea, dizziness, mucous membrane irritation, drowsiness, unconsciousness

SECTION 12: Ecological information

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

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Art.: 20768							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:							n.d.a.
12.1. Toxicity to daphnia:							n.d.a.
12.1. Toxicity to algae:							n.d.a.
12.2. Persistence and							n.d.a.
degradability:							
12.3. Bioaccumulative							n.d.a.
potential:							
12.4. Mobility in soil:							n.d.a.
12.5. Results of PBT							n.d.a.
and vPvB assessment							
12.6. Other adverse							n.d.a.
effects:							

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	2600	mg/l	Pimephales		
					promelas		
12.1. Toxicity to fish:	LC50	48h	2840	mg/l	Leuciscus idus		
12.1. Toxicity to daphnia:	EC50	48h	1380	mg/l	Daphnia magna		
12.1. Toxicity to algae:	EC50	72h	>100	mg/l	Desmodesmus		
				_	subspicatus		
12.2. Persistence and							Not readily
degradability:							biodegradable
12.3. Bioaccumulative	Log Pow		0,89				Not to be
potential:	-						expected
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB substance



Page 11 of 16 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 05.10.2018 / 0016 Replacing version dated / version: 29.06.2018 / 0015 Valid from: 05.10.2018 PDF print date: 08.10.2018 Start Fix 200 ml Art.: 20768

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Toxicity to bacteria:	EC50	15min	5600	mg/l	Photobacterium phosphoreum	
Other information:	H (Henry)		124,6			

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	NOEC/NOEL	28d	2,045	mg/l	Oncorhynchus mykiss		
12.1. Toxicity to fish:	NOELR	28d	2,04	mg/l	Salmo gairdneri		
12.1. Toxicity to fish:	LC50	96h	11,4	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to fish:	LL50	96h	11,4	mg/l	Salmo gairdneri	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC50	48h	3	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	1	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	
12.1. Toxicity to daphnia:	NOELR	48h	2,1	mg/l	Daphnia magna		
12.1. Toxicity to algae:	EC50	72h	30	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	81	%		/	Analogous conclusion
12.3. Bioaccumulative potential:	BCF		242-253				
12.4. Mobility in soil:							Adsorption in ground., Production is slightly volation
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substanc
Other information:	AOX		0	%			

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.2. Persistence and degradability:							Biodegradable
12.3. Bioaccumulative potential:							A notable biological accumulation potential is not to be expected (LogPow 1-3)., Product is slightly volatile.
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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



Page 12 of 16 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 05.10.2018 / 0016 Replacing version dated / version: 29.06.2018 / 0015 Valid from: 05.10.2018 PDF print date: 08.10.2018 Start Fix 200 ml Art.: 20768

allocated under certain circumstances. (2014/955/EU) 16 05 04 gases in pressure containers (including halons) containing hazardous substances Recommendation: Sewage disposal shall be discouraged. Pay attention to local and national official regulations. Take full aerosol cans to problem waste collection. Take emptied aerosol cans to valuable material collection. For contaminated packing material

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Pay attention to local and national official regulations. Recommendation:

Do not perforate, cut up or weld uncleaned container.

SECTION 14: Transport information

General statements 14.1. UN number:	1950
Transport by road/by rail (ADR/RID)	
14.2. UN proper shipping name:	
UN 1950 AEROSOLS	
14.3. Transport hazard class(es):	2.1
14.4. Packing group: Classification code:	- 5F
LQ:	51 1 L
14.5. Environmental hazards:	Not applicable
Tunnel restriction code:	D
Transport by sea (IMDG-code)	
14.2. UN proper shipping name:	
AEROSOLS	
14.3. Transport hazard class(es):	2.1
14.4. Packing group:	- V
EmS:	F-D, S-U
Marine Pollutant: 14.5. Environmental hazards:	N.a Net applicable
	Not applicable
Transport by air (IATA)	
14.2. UN proper shipping name: Aerosols, flammable	•
14.3. Transport hazard class(es):	2.1
14.4. Packing group:	-
14.5. Environmental hazards:	Not applicable
14.6. 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.	
14.7. Transport in bulk according to Annex II of I	IARPOL and the IBC Code
Freighted as packaged goods rather than in bulk, therefore not applica	ble.
Minimum amount regulations have not been taken into account.	
Danger code and packing code on request.	
Comply with special provisions.	
SECTION 15: Reg	ulatory information

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 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.):



Page 13 of 16

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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 05.10.2018 / 0016 Replacing version dated / version: 29.06.2018 / 0015 Valid from: 05.10.2018 PDF print date: 08.10.2018 Start Fix 200 ml Art.: 20768

Hazard categories	Notes to Annex I	Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Lower-tier requirements	Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Upper-tier 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:

ſ	Entry Nr	Dangerous substances	Notes to Annex I	Qualifying quantity	Qualifying quantity
				(tonnes) for the	(tonnes) for the
				application of - Lower-tier	application of - Upper-tier
				requirements	requirements
	18	Liquefied flammable	19	50	200
		gases, Category 1 or 2			
		(including LPG) and			
		natural gas			
	The Meters to Assess 4 of Dis		and the second	have a state of a state of a second large the state of th	alian late a second cole as

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 2010/75/EU (VOC):

97,66 %

Observe incident regulations.

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

3, 8, 11, 12, 13, 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 (EC) No. 1272/2008 (CLP)	Evaluation method used
Skin Irrit. 2, H315	Classification according to calculation procedure.
STOT SE 3, H336	Classification according to calculation procedure.
Aquatic Chronic 3, H412	Classification according to calculation procedure.
Aerosol 1, H222	Classification according to calculation procedure.
Asp. Tox. 1, H304	Classification according to calculation procedure.
Aerosol 1, H229	Classification based on the form or physical state.

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

H224 Extremely flammable liquid and vapour.

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.



Page 14 of 16

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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 05.10.2018 / 0016 Replacing version dated / version: 29.06.2018 / 0015 Valid from: 05.10.2018 PDF print date: 08.10.2018 Start Fix 200 ml Art.: 20768

Skin Irrit. — Skin irritation STOT SE — Specific target organ toxicity - single exposure - narcotic effects Aquatic Chronic — Hazardous to the aquatic environment - chronic Aerosol — Aerosols Asp. Tox. — Aspiration hazard Flam. Liq. — Flammable liquid Acute Tox. — Acute toxicity - oral

Any abbreviations and acronyms used in this document:

AC Article Categories acc., acc. to according, according to ACGIH American Conference of Governmental Industrial Hygienists ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road) AOEL Acceptable Operator Exposure Level AOX Adsorbable organic halogen compounds approx. approximately Art., Art. no. Article number ATE Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP) Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany) BAM BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany) BCF **Bioconcentration factor** BGV Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation) BHT Butylhydroxytoluol (= 2,6-Di-t-butyl-4-methyl-phenol) BMGV Biological monitoring guidance value (EH40, UK) BOD Biochemical oxygen demand BSEF Bromine Science and Environmental Forum bw body weight CAS **Chemical Abstracts Service** Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants and Other Fluids CEC 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 Deutscher Verband für Schweißen und verwandte Verfahren e.V. (= German Association for Welding and Allied Processes) DVS dw dry weight for example (abbreviation of Latin 'exempli gratia'), for instance e.g. EC European Community ECHA European Chemicals Agency FFA European Economic Area EEC European Economic Community EINECS European Inventory of Existing Commercial Chemical Substances ELINCS European List of Notified Chemical Substances ΕN **European Norms** United States Environmental Protection Agency (United States of America) FPA ERC **Environmental Release Categories** ES Exposure scenario etc. et cetera EU European Union EWC European Waste Catalogue Fax. Fax number general gen. GHS Globally Harmonized System of Classification and Labelling of Chemicals GWP Global warming potential



- 089
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 05.10.2018 / 0016
Replacing version dated / version: 29.06.2018 / 0015
Valid from: 05.10.2018
PDF print date: 08.10.2018
Start Fix 200 ml
Art.: 20768
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
IMDG-code International Maritime Code for Dangerous Goods incl. including, inclusive
IUCLID International Uniform ChemicaL Information Database
LC lethal concentration
LC50 lethal concentration 50 percent kill
LCLo lowest published lethal concentration
LD Lethal Dose of a chemical
LD50 Lethal Dose, 50% kill
LDLo Lethal Dose Low
LOAEL Lowest 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 applicable n.av. not available
n.c. not checked
n.d.a. no data available
NIOSH National Institute of Occupational Safety and Health (United States of America)
NOAECNo 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
PE Polyethylene PNEC Predicted No Effect Concentration
POCP Photochemical ozone creation potential
ppm parts per million
PROC Process category
PTFE Polytetrafluorethylene
REACHRegistration, 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



Page 16 of 16 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 05.10.2018 / 0016 Replacing version dated / version: 29.06.2018 / 0015 Valid from: 05.10.2018 PDF print date: 08.10.2018 Start Fix 200 ml Art.: 20768

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The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.

These statements were made by: Chemical Check GmbH, Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90

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