



Page 1 of 23

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

Revision date / version: 01.11.2021 / 0009

Replacing version dated / version: 16.08.2018 / 0008

Valid from: 01.11.2021 PDF print date: 01.11.2021 FITTINGSPRAY 400 ML

Art.: 9027578

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

FITTINGSPRAY 400 ML

Art.: 9027578

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

BTI Befestigungstechnik GmbH & Co. KG

Salzstr. 51

74653 Ingelfingen Tel.: +49 7940 141 141 Fax: +49 7940 141 9141 Email: info@bti.de Homepage: www.bti.de

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 (BRC)

+1 872 5888271 (BRC)

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

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) $\,$





Page 2 of 23

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

Revision date / version: 01.11.2021 / 0009

Replacing version dated / version: 16.08.2018 / 0008

Valid from: 01.11.2021 PDF print date: 01.11.2021 FITTINGSPRAY 400 ML

Art.: 9027578



Danger

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

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.

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

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 (< 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 %).

Dangerous vapours heavier than air.

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

SECTION 3: Composition/information on ingredients

Aerosol

3.1 Substances

n.a.

3.2 Mixtures

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics,	
<2% aromatics	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	918-481-9
CAS	(64742-48-9)
content %	30-50
Classification according to Regulation (EC) 1272/2008	EUH066
(CLP), M-factors	Asp. Tox. 1, H304

Distillates (petroleum), solvent-dewaxed heavy paraffinic	
Registration number (REACH)	





Page 3 of 23

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

Revision date / version: 01.11.2021 / 0009

Replacing version dated / version: 16.08.2018 / 0008

Valid from: 01.11.2021 PDF print date: 01.11.2021 FITTINGSPRAY 400 ML

Art.: 9027578

Index	649-474-00-6
EINECS, ELINCS, NLP, REACH-IT List-No.	265-169-7
CAS	64742-65-0
content %	10-20
Classification according to Regulation (EC) 1272/2008	Asp. Tox. 1, H304
(CLP), M-factors	

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.

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.

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

Skin contact

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

Eye contact

Remove contact lenses.

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

Ingestion

Typically no exposure pathway.

Rinse the mouth thoroughly with water.

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

4.2 Most important symptoms and effects, both acute and delayed

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 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.





Page 4 of 23

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

Revision date / version: 01.11.2021 / 0009

Replacing version dated / version: 16.08.2018 / 0008

Valid from: 01.11.2021 PDF print date: 01.11.2021 FITTINGSPRAY 400 ML

Art.: 9027578

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

CO₂

Extinction powder

Water jet spray

Alcohol resistant foam

Unsuitable extinguishing media

High volume water jet

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Toxic pyrolysis products.

Danger of bursting (explosion) when heated

Explosive vapour/air or gas/air mixtures.

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.

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:





Page 5 of 23

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

Revision date / version: 01.11.2021 / 0009

Replacing version dated / version: 16.08.2018 / 0008

Valid from: 01.11.2021 PDF print date: 01.11.2021 FITTINGSPRAY 400 ML

Art.: 9027578

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

6.4 Reference to other sections

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

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

7.1.1 General recommendations

Ensure good ventilation.

Avoid inhalation of the vapours.

Avoid contact with eyes or skin.

Keep away from sources of ignition - Do not smoke.

Take measures against electrostatic charging, if appropriate.

Do not use on hot surfaces.

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

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

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

7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.

Not to be stored in gangways or stair wells.

Store product closed and only in original packing.

Do not store with flammable or self-igniting materials.

Observe special regulations for aerosols!

Store cool.

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

Store in a well ventilated place.

Do not keep the container sealed.

Observe special storage conditions.

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):

800 mg/m3

(B)	Chemical Name	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics)	Content %:30-50
W	EL-TWA: 800 mg/m3	WEL-STEL:		



(GB)

Page 6 of 23

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

Revision date / version: 01.11.2021 / 0009

Replacing version dated / version: 16.08.2018 / 0008

Valid from: 01.11.2021 PDF print date: 01.11.2021 FITTINGSPRAY 400 ML

Art.: 9027578

Monitoring procedures:	-	Draeger - Hydrocarbons 0,1%/c	(81 03 571)		
	-	Draeger - Hydrocarbons 2/a (81	03 581)		
	-	Compur - KITA-187 S (551 174	l)		
BMGV:		Oth	ner information:	(OEI	acc. to
		RC	P-method, paragi	raphs	84-87, EH40)
© Chemical Name	Butane				Content %:
WEL-TWA: 600 ppm (145	50 mg/m3)	WEL-STEL: 750 ppm (1810	0 mg/m3)		
Monitoring procedures:	-	Compur - KITA-221 SA (549 45	59)		
	-	OSHA PV2010 (n-Butane) - 199	93		
BMGV:		Oth	ner information:		
© Chemical Name	Propane				Content %:
WEL-TWA: 1000 ppm (A	CGIH)	WEL-STEL:			
Monitoring procedures:	-	Compur - KITA-125 SA (549 95	54)		
	-	OSHA PV2077 (Propane) - 1990	0		
BMGV:		Oth	ner information:		

Distillates (petroleum), solvent-dewaxed heavy paraffinic										
Area of application	Exposure route /	Effect on health	Descript	Value	Unit	Note				
	Environmental		or							
	compartment									
	Environment - oral		PNEC	9,33	mg/kg					
	(animal feed)				feed					
Consumer	Human - inhalation	Long term, local	DNEL	1,2	mg/m3					
		effects								
Workers / employees	Human - inhalation	Long term, local	DNEL	5,4	mg/m3					
		effects								

- 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 (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 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 (Directive 2004/37/CE). | 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.
- (13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.





Page 7 of 23

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

Revision date / version: 01.11.2021 / 0009

Replacing version dated / version: 16.08.2018 / 0008

Valid from: 01.11.2021 PDF print date: 01.11.2021 FITTINGSPRAY 400 ML

Art.: 9027578

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:

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

Skin protection - Hand protection:

Solvent resistant protective gloves (EN ISO 374).

If applicable

Protective Neoprene® / polychloroprene gloves (EN ISO 374).

Protective nitrile gloves (EN ISO 374).

Protective PVC gloves (EN ISO 374).

Protective Viton® / fluoroelastomer gloves (EN ISO 374).

Minimum layer thickness in mm:

0,5

Permeation time (penetration time) in minutes:

480

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.

Protective hand cream recommended.

Skin protection - Other:

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

Respiratory protection:

If OES or MEL is exceeded.

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

At high concentrations:

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

Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:

Not applicable

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

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.

Selection of materials derived from glove manufacturer's indications.





Page 8 of 23

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

Revision date / version: 01.11.2021 / 0009

Replacing version dated / version: 16.08.2018 / 0008

Valid from: 01.11.2021 PDF print date: 01.11.2021 FITTINGSPRAY 400 ML

Art.: 9027578

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls

No information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: Aerosol. Active substance: liquid. Colour: According to specification

Odour: Characteristic

Melting point/freezing point: There is no information available on this parameter.

Boiling point or initial boiling point and boiling range: -44 °C

Flammability: Does not apply to aerosols.

Lower explosion limit: 0,6 Vol-%

Upper explosion limit: There is no information available on this parameter.

Flash point: -97 °C Auto-ignition temperature: 240 °C

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

pH: Mixture is non-soluble (in water).

Kinematic viscosity:

Does not apply to aerosols.

Solubility: Not miscible

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

Vapour pressure: 3,5 bar (20°C)
Density and/or relative density: 0,718 g/cm3 (20°C)
Relative vapour density: Vapours heavier than air.
Particle characteristics: Does not apply to aerosols.

9.2 Other information

Explosives: Product is not explosive. Possible build up of

explosive/highly flammable vapour/air mixture.

Oxidising liquids: No Solvents content: 70 %

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





Page 9 of 23

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

Revision date / version: 01.11.2021 / 0009

Replacing version dated / version: 16.08.2018 / 0008

Valid from: 01.11.2021 PDF print date: 01.11.2021 FITTINGSPRAY 400 ML

Art.: 9027578

See also section 7.

Heating, open flame, ignition sources

Pressure increase will result in danger of bursting.

Electrostatic charge

10.5 Incompatible materials

No dangerous reactions are known.

Avoid contact with strong oxidizing agents.

10.6 Hazardous decomposition products

See also section 5.2

No decomposition when used as directed.

SECTION 11: Toxicological information

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).

FITTINGSPRAY 400 ML									
Art.: 9027578	Art.: 9027578								
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes			
	nt								
Acute toxicity, by oral						n.d.a.			
route:									
Acute toxicity, by						n.d.a.			
dermal route:									
Acute toxicity, by						n.d.a.			
inhalation:									
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						n.d.a.			
toxicity - single									
exposure (STOT-SE):									
Specific target organ						n.d.a.			
toxicity - repeated									
exposure (STOT-RE):									
Aspiration hazard:						n.d.a.			
Symptoms:						n.d.a.			

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics								
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes		
	nt							
Acute toxicity, by oral	LD50	>5000	mg/kg	Rat	OECD 401 (Acute			
route:					Oral Toxicity)			
Acute toxicity, by	LD50	>2000	mg/kg	Rat	OECD 402 (Acute			
dermal route:					Dermal Toxicity)			





Page 10 of 23

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

Revision date / version: 01.11.2021 / 0009

Replacing version dated / version: 16.08.2018 / 0008

Valid from: 01.11.2021 PDF print date: 01.11.2021 FITTINGSPRAY 400 ML

Acute toxicity, by inhalation:	LC50	>5000	mg/m3/ 8h	Rat	OECD 403 (Acute Inhalation Toxicity)	Vapours
Acute toxicity, by inhalation:	LC50	>5	mg/m3/ 4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Vapours, Analogous conclusion
Skin corrosion/irritation:					·	Repeated exposure may cause skin dryness or cracking., Product removes fat.
Skin corrosion/irritation:					OECD 404 (Acute Dermal Irritation/Corrosio n)	Not irritant, Analogous conclusion
Serious eye damage/irritation:					OECD 405 (Acute Eye Irritation/Corrosio n)	Not irritant
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact)
Germ cell mutagenicity:				Salmonella typhimuri um	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative, Analogous conclusion
Carcinogenicity:					OECD 453 (Combined Chronic Toxicity/Carcinoge nicity Studies)	Negative, Analogous conclusion
Reproductive toxicity:					OECD 421 (Reproduction/Dev elopmental Toxicity Screening Test)	Negative, Analogous conclusion
Reproductive toxicity:	NOAEC	>= 5220	mg/m3	Rat	OECD 414 (Prenatal Developmental Toxicity Study)	Negative, Analogous conclusionin halation
Specific target organ toxicity - repeated exposure (STOT-RE):					OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	No indications of such an effect., Analogous conclusion





Page 11 of 23

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

Revision date / version: 01.11.2021 / 0009

Replacing version dated / version: 16.08.2018 / 0008

Valid from: 01.11.2021 PDF print date: 01.11.2021 FITTINGSPRAY 400 ML

Aspiration hazard:			Yes
Symptoms:			unconsciousn
			ess,
			headaches,
			dizziness,
			Dermatitis
			(skin
			inflammation
),
			Reddening,
			drying of the
			skin.,
			mucous
			membrane
			irritation,
			nausea and
			vomiting.,
			diarrhoea,
			lower
			abdominal
			pain

Distillates (petroleum), s	Distillates (petroleum), solvent-dewaxed heavy paraffinic							
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes		
	nt							
Acute toxicity, by oral	LD50	>5000	mg/kg	Rat	OECD 401 (Acute			
route:					Oral Toxicity)			
Acute toxicity, by	LD50	>5000	mg/kg	Rabbit	OECD 402 (Acute			
dermal route:					Dermal Toxicity)			
Acute toxicity, by	LD50	>5,53	mg/l/4h	Rat	OECD 403 (Acute	Aerosol		
inhalation:					Inhalation			
					Toxicity)			
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant,		
					Dermal	Analogous		
					Irritation/Corrosio	conclusion		
					n)			
Serious eye				Rabbit	OECD 405 (Acute	Not irritant,		
damage/irritation:					Eye	Analogous		
					Irritation/Corrosio	conclusion		
					n)			
Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin		
sensitisation:					Sensitisation)	contact),		
						Analogous		
						conclusion		
Germ cell mutagenicity:				Mouse	OECD 474	Negative,		
					(Mammalian	Analogous		
					Erythrocyte	conclusion		
					Micronucleus			
					Test)			





Page 12 of 23

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

Revision date / version: 01.11.2021 / 0009

Replacing version dated / version: 16.08.2018 / 0008

Valid from: 01.11.2021 PDF print date: 01.11.2021 FITTINGSPRAY 400 ML

Germ cell mutagenicity:					OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative, Analogous conclusion Chinese
Germ cell mutagenicity:				Salmonella typhimuri um	OECD 471 (Bacterial Reverse Mutation Test)	Negative, Analogous conclusion
Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative, Analogous conclusion
Carcinogenicity:				Mouse	,	Female, Negative
Carcinogenicity:				Mouse	OECD 451 (Carcinogenicity Studies)	Negative, Analogous conclusion 78 weeks, dermal
Reproductive toxicity:				Rat		Negative
Reproductive toxicity (Developmental toxicity):				Rat	OECD 414 (Prenatal Developmental Toxicity Study)	Negative, Analogous conclusion dermal
Reproductive toxicity (Effects on fertility):				Rat	OECD 421 (Reproduction/Dev elopmental Toxicity Screening Test)	Negative, Analogous conclusion oral, dermal
Aspiration hazard:					,	Yes
Symptoms:						mucous membrane irritation, dizziness, nausea
Specific target organ toxicity - repeated exposure (STOT-RE), dermal:	NOAEL	~1000	mg/kg bw/d	Rabbit	OECD 410 (Repeated Dose Dermal Toxicity - 90-Day)	Analogous conclusion
Specific target organ toxicity - repeated exposure (STOT-RE), dermal:	NOAEL	30	mg/kg/ d	Rat	OECD 411 (Subchronic Dermal Toxicity - 90-day Study)	Analogous conclusion
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEL	0,22	mg/l	Rat		Aerosol, Analogous conclusion 4 weeks
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEL	0,15	mg/l	Rat		Aerosol, Analogous conclusion 13 weeks





Page 13 of 23

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

Revision date / version: 01.11.2021 / 0009

Replacing version dated / version: 16.08.2018 / 0008

Valid from: 01.11.2021 PDF print date: 01.11.2021 FITTINGSPRAY 400 ML

Butane						
Toxicity / effect	Endpoi nt	Value	Unit	Organism	Test method	Notes
Acute toxicity, by	LC50	658	mg/l/4h	Rat		
inhalation:						
Germ cell mutagenicity:				Salmonella	OECD 471	Negative
				typhimuri	(Bacterial Reverse	
				um	Mutation Test)	
Germ cell mutagenicity:					OECD 473 (In	Negative
					Vitro Mammalian	
					Chromosome	
					Aberration Test)	
Germ cell mutagenicity:				Human	OECD 473 (In	Negative
				being	Vitro Mammalian	
					Chromosome	
					Aberration Test)	
Germ cell mutagenicity:				Rat	OECD 474	Negative
					(Mammalian	
					Erythrocyte	
					Micronucleus	
					Test)	37
Aspiration hazard:						No
Symptoms:						ataxia,
						breathing
						difficulties,
						drowsiness, unconsciousn
						ess, frostbite,
						disturbed
						heart
						rhythm,
						headaches,
						cramps, intoxication,
						dizziness,
						nausea and
						vomiting.
Specific target organ	NOAEL	21,394	mg/l	Rat	OECD 422	voiming.
toxicity - repeated	TOTILL	21,374	1118/1	- Kui	(Combined	
exposure (STOT-RE),					Repeated Dose	
inhalat.:					Tox. Study with	
					the	
					Reproduction/Dev	
					elopm. Tox.	
					Screening Test)	

Propane						
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					





Page 14 of 23

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

Revision date / version: 01.11.2021 / 0009

Replacing version dated / version: 16.08.2018 / 0008

Valid from: 01.11.2021 PDF print date: 01.11.2021 FITTINGSPRAY 400 ML

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						Not irritant
damage/irritation:						
Germ cell mutagenicity:					OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
Germ cell mutagenicity:				Salmonella typhimuri um	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Reproductive toxicity (Developmental toxicity):	NOAEC	21,641	mg/l		OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Dev elopm. Tox. Screening Test)	
Aspiration hazard:					•	No
Symptoms:					O.D. (0.2)	breathing difficulties, unconsciousn ess, frostbite, headaches, cramps, mucous membrane irritation, dizziness, nausea and vomiting.
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/Dev elopm. Tox. Screening Test)	





Page 15 of 23

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

Revision date / version: 01.11.2021 / 0009

Replacing version dated / version: 16.08.2018 / 0008

Valid from: 01.11.2021 PDF print date: 01.11.2021 FITTINGSPRAY 400 ML

Art.: 9027578

Specific target organ	LOAEL	21,641	mg/l	Rat	OECD 422
toxicity - repeated					(Combined
exposure (STOT-RE),					Repeated Dose
inhalat.:					Tox. Study with
					the
					Reproduction/Dev
					elopm. Tox.
					Screening Test)

11.2. Information on other hazards

FITTINGSPRAY 400 ML									
Art.: 9027578									
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes			
	nt								
Endocrine disrupting						Does not			
properties:						apply 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).

FITTINGSPRAY 4	400 ML									
Art.: 9027578										
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes			
12.1. Toxicity to							n.d.a.			
fish:										
12.1. Toxicity to							n.d.a.			
daphnia:										
12.1. Toxicity to							n.d.a.			
algae:										
12.2. Persistence							Isolate as			
and degradability:							much as			
							possible			
							with an oil			
							separator.			
12.3.							n.d.a.			
Bioaccumulative										
potential:										
12.4. Mobility in							n.d.a.			
soil:										





Page 16 of 23

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

Revision date / version: 01.11.2021 / 0009

Replacing version dated / version: 16.08.2018 / 0008

Valid from: 01.11.2021 PDF print date: 01.11.2021 FITTINGSPRAY 400 ML

12.5. Results of		n.d.a.
PBT and vPvB		
assessment		
12.6. Endocrine		Does not
disrupting		apply to
properties:		mixtures.
12.7. Other		No
adverse effects:		information
		available on
		other
		adverse
		effects on
		the
		environment.
Other information:		According
		to the recipe,
		contains no
		AOX.

Hydrocarbons, C1	0-C13, n-alka	nes, isoa	lkanes, c	yclics, <2	% aromatics		
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to	LC50	96h	>1000	mg/l	Oncorhynchus	OECD 203	
fish:					mykiss	(Fish, Acute	
						Toxicity Test)	
12.1. Toxicity to	NOELR	28d	0,10	mg/l	Oncorhynchus	QSAR	
fish:					mykiss		
12.1. Toxicity to	EC50	48h	>1000	mg/l	Daphnia	OECD 202	
daphnia:					magna	(Daphnia sp.	
						Acute	
						Immobilisatio	
						n Test)	
12.1. Toxicity to	NOELR	21d	0,18	mg/l	Daphnia	QSAR	
daphnia:					magna		
12.1. Toxicity to	ErL50	72h	>1000	mg/l	Pseudokirchne	OECD 201	
algae:					riella	(Alga,	
					subcapitata	Growth	
						Inhibition	
						Test)	
12.1. Toxicity to	NOELR	72h	1000	mg/l	Pseudokirchne	OECD 201	
algae:					riella	(Alga,	
					subcapitata	Growth	
						Inhibition	
						Test)	
12.2. Persistence		28d	80	%		OECD 301 F	Readily
and degradability:						(Ready	biodegradabl
						Biodegradabil	e
						ity -	
						Manometric	
						Respirometry	
						Test)	





Page 17 of 23

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

Revision date / version: 01.11.2021 / 0009

Replacing version dated / version: 16.08.2018 / 0008

Valid from: 01.11.2021 PDF print date: 01.11.2021 FITTINGSPRAY 400 ML

12.3.	Log Pow	5,5-			
Bioaccumulative		7,2			
potential:					
12.4. Mobility in	Log Koc	>3			
soil:					
12.5. Results of					No PBT
PBT and vPvB					substance,
assessment					No vPvB
					substance
12.7. Other					Product
adverse effects:					floats on the
					water
					surface.
Water solubility:		~10	mg/l		Slight

Distillates (petrole	um), solvent-d	lewaxed	heavy pa	raffinic			
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.5. Results of							No PBT
PBT and vPvB							substance,
assessment							No vPvB
							substance
12.1. Toxicity to	LC50	96h	>100	mg/l	Pimephales	OECD 203	Analogous
fish:					promelas	(Fish, Acute	conclusion
						Toxicity Test)	
12.1. Toxicity to	NOEC/NO	14d	1000	mg/l	Oncorhynchus	QSAR	
fish:	EL				mykiss		
12.1. Toxicity to	LC50	96h	>1000	mg/l	Salmo		
fish:	7.050	0.77	7000		gairdneri	0707 404	
12.1. Toxicity to	LC50	96h	>5000	mg/l	Oncorhynchus	OECD 203	
fish:					mykiss	(Fish, Acute	
10.1 TD	EGEO	401	1000	/1	D 1 :	Toxicity Test)	A 1
12.1. Toxicity to	EC50	48h	>1000	mg/l	Daphnia	OECD 202	Analogous
daphnia:					magna	(Daphnia sp. Acute	conclusion
						Immobilisatio	
						n Test)	
12.1. Toxicity to	EC50	96h	>1000	mg/l	Scenedesmus	ii Test)	
algae:	ECSO	9011	>1000	IIIg/I	subspicatus		
12.2. Persistence		28d	6	%	subspicatus	OECD 301 B	Analogous
and degradability:		200		/0		(Ready	conclusion
una degradaointy.						Biodegradabil	conclusion
						ity - Co2	
						Evolution	
						Test)	
12.2. Persistence		28d	31	%	activated	OECD 301 F	Not readily
and degradability:					sludge	(Ready	biodegradab
,						Biodegradabil	e
						ity -	(Analogous
						Manometric	conclusion)
						Respirometry	ĺ
						Test)	





Page 18 of 23

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

Revision date / version: 01.11.2021 / 0009

Replacing version dated / version: 16.08.2018 / 0008

Valid from: 01.11.2021 PDF print date: 01.11.2021 FITTINGSPRAY 400 ML

Art.: 9027578

12.3.	Log Pow		>3			Low
Bioaccumulative						
potential:						
Toxicity to	EC20	6h	>1000	mg/l	Pseudomonas	
bacteria:					fluorescens	

Butane	Butane									
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes			
12.1. Toxicity to	LC50	96h	24,11	mg/l		QSAR				
fish:	1									
12.1. Toxicity to	LC50	48h	14,22	mg/l		QSAR				
daphnia:										
12.3.	Log Pow		2,98				A notable			
Bioaccumulative							biological			
potential:							accumulation			
•							potential is			
							not to be			
							expected			
							(LogPow 1-			
							3).			
12.5. Results of							No PBT			
PBT and vPvB							substance,			
assessment							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

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 04 other organic solvents, washing liquids and mother liquors





Page 19 of 23

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

Revision date / version: 01.11.2021 / 0009

Replacing version dated / version: 16.08.2018 / 0008

Valid from: 01.11.2021 PDF print date: 01.11.2021 FITTINGSPRAY 400 ML

Art.: 9027578

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

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

14.1. UN number or ID number: 1950

Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name:

UN 1950 AEROSOLS

14.3. Transport hazard class(es):

14.4. Packing group:

Classification code:

LO:

1 L

14.5. Environmental hazards: Not applicable

Tunnel restriction code:

Transport by sea (IMDG-code)

14.2. UN proper shipping name:

AEROSOLS

14.3. Transport hazard class(es): 2.1 14.4. Packing group: -

EmS: F-D, S-U
Marine Pollutant: n.a

14.5. Environmental hazards: n.a 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. 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.











Page 20 of 23

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

Revision date / version: 01.11.2021 / 0009

Replacing version dated / version: 16.08.2018 / 0008

Valid from: 01.11.2021 PDF print date: 01.11.2021 FITTINGSPRAY 400 ML

Art.: 9027578

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.):

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

Directive 2012/10/De (Seveso III), Timex 1, Ture 2 Times produce contains the substances listed below.					
Entry Nr	Dangerous	Notes to Annex I	Qualifying quantity	Qualifying quantity	
	substances		(tonnes) for the	(tonnes) for the	
			application of -	application of -	
			Lower-tier	Upper-tier	
			requirements	requirements	
18	Liquefied	19	50	200	
	flammable gases,				
	Category 1 or 2				
	(including LPG)				
	and natural gas				

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): 70 %

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

1-16

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 $(EG)\ 1272/2008\ (CLP)$:





Page 21 of 23

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

Revision date / version: 01.11.2021 / 0009

Replacing version dated / version: 16.08.2018 / 0008

Valid from: 01.11.2021 PDF print date: 01.11.2021 FITTINGSPRAY 400 ML

Art.: 9027578

Classification in accordance with regulation (EC) No. 1272/2008 (CLP)	Evaluation method used
Aerosol 1, H222	Classification based on test data.
Aerosol 1, H229	Classification based on test data.

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).

H304 May be fatal if swallowed and enters airways.

EUH066 Repeated exposure may cause skin dryness or cracking.

Aerosol - Aerosols

Asp. Tox. — Aspiration hazard

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

bw body weight

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



(GB

Page 22 of 23

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

Revision date / version: 01.11.2021 / 0009

Replacing version dated / version: 16.08.2018 / 0008

Valid from: 01.11.2021 PDF print date: 01.11.2021 FITTINGSPRAY 400 ML

Art.: 9027578

DMEL Derived Minimum Effect Level

DNEL Derived No Effect Level

DOC Dissolved organic carbon

dw dry weight

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, $E\mu Cx$, 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

TATA International All Transport Association

IBC (Code) International Bulk Chemical (Code)

IMDG-code International Maritime Code for Dangerous Goods

incl. including, inclusive

IUCLID International Uniform Chemical Information Database

IUPACInternational Union for Pure Applied Chemistry

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

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

n.c. not checked n.d.a. no data available

NIOSH National 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





Page 23 of 23

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

Revision date / version: 01.11.2021 / 0009

Replacing version dated / version: 16.08.2018 / 0008

Valid from: 01.11.2021 PDF print date: 01.11.2021 FITTINGSPRAY 400 ML

Art.: 9027578

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. 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

wwt 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.