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

Revision date / version: 24.03.2022 / 0012

Replacing version dated / version: 01.11.2021 / 0011

Valid from: 24.03.2022 PDF print date: 24.03.2022 Power Spot Gas Cartridge 600 ml Art.: 5482 63, Art.: 5484 63

## 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

**Power Spot Gas Cartridge** 

600 ml Art.: 5482 63, Art.: 5484 63

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

Welding gas

Relevant identified uses of the substance or mixture:

Uses advised against:

No information available at present.

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

Theo Förch GmbH & Co. KG Theo-Förch-Str. 11 - 15 74196 Neuenstadt Tel.: 07139/95-0

Fax: 07139/95-199 Email: info@foerch.de Homepage: www.foerch.com

Details of the supplier of the safety data sheet see section 16 of this safety data sheet.

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 (TFC)

## **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** Flam. Gas H220-Extremely flammable gas. 1A

Press. Gas (Comp.) H280-Contains gas under pressure, may explode if

heated.

#### 2.2 Label elements

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



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#### Danger

H220-Extremely flammable gas. H280-Contains gas under pressure, may explode if heated.

P210-Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P377-Leaking gas fire: Do not extinguish, unless leak can be stopped safely. P381-In case of leakage, eliminate all ignition sources.

P410+P403-Protect from sunlight. Store in a well-ventilated place.

## 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 %).

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

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

## 3.1 Substances

# n.a. **3.2 Mixtures**

Propane	
Registration number (REACH)	
Index	601-003-00-5
EINECS, ELINCS, NLP, REACH-IT List-No.	200-827-9
CAS	74-98-6
content %	30-60
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Flam. Gas 1A, H220

Isobutane	
Registration number (REACH)	
Index	601-004-00-0
EINECS, ELINCS, NLP, REACH-IT List-No.	200-857-2
CAS	75-28-5
content %	30-60
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Flam. Gas 1A, H220

Butane	
Registration number (REACH)	
Index	601-004-00-0
EINECS, ELINCS, NLP, REACH-IT List-No.	203-448-7
CAS	106-97-8
content %	5-20
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Flam. Gas 1A, H220

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!



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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

Wash in water.

Cover frostbite aseptically.

#### **Eve contact**

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

#### Ingestion

n.a.

## 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

Nausea

Respiratory distress

Headaches

Suffocating effect.

Unconsciousness

Effect on the central nervous system

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

## 4.3 Indication of any immediate medical attention and special treatment needed

n.c.

## **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media Suitable extinguishing media

Foam

Dry extinguisher

CÓ2

Water jet spray

## 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

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

For personal protective equipment see Section 8.

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

## 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.



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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.

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

## 6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

## 6.2 Environmental precautions

No special measures required.

## 6.3 Methods and material for containment and cleaning up

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

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

Active substance:

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

#### 6.4 Reference to other sections

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

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

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

## 7.1 Precautions for safe handling

## 7.1.1 General recommendations

Ensure good ventilation.

Keep away from sources of ignition - Do not smoke.

Take precautions against electrostatic charges.

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.

Do not store with flammable or self-igniting materials.

Not to be stored in gangways or stair wells.

Observe special regulations for gases. Observe special storage conditions.

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

Store in a well ventilated place.

## 7.3 Specific end use(s)

No information available at present.

## SECTION 8: Exposure controls/personal protection

## 8.1 Control parameters

Chemical Name	Propane			Content %:30-60
WEL-TWA: 1000 ppm (ACGIH)	•	WEL-STEL:		
Monitoring procedures:	-	Compur - KITA-125 SA (549 954)		
	-	OSHA PV2077 (Propane) - 1990		
BMGV:			Other information:	
Chemical Name	Isobutane			Content %:30-60
WEL-TWA: 1000 ppm (EX) (ACGIF	H)	WEL-STEL:		
Monitoring procedures:	-	Compur - KITA-113 SB(C) (549 368	3)	
BMGV:			Other information:	
Chemical Name	Butane			Content %:5-20
WEL-TWA: 600 ppm (1450 mg/m3	)	WEL-STEL: 750 ppm (1810 m	g/m3)	
Monitoring procedures:	-	Compur - KITA-221 SA (549 459)		



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- OSHA PV2010 (n-Butane) - 1993

BMGV: --- Other information: ---

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

(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.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

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

These are specified by e.g. EN 14042.

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

## 8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

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

Eye/face protection:

With danger of contact with eyes.

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

Skin protection - Hand protection:

Normally not necessary.

Protective nitrile gloves (EN ISO 374).

Minimum laver thickness in mm:

0,35

Permeation time (penetration time) in minutes:

>= 120

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.

Thermal hazards:

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

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

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

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



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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: Gas forming Colour: Colourless Odour: Slightly

Melting point/freezing point: Does not apply to gases.

Boiling point or initial boiling point and boiling range: There is no information available on this parameter.

Flammability: Flammable

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

Flash point: <0 °C Auto-ignition temperature: >200 °C

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

Mixture is non-soluble (in water).

Does not apply to gases. Kinematic viscosity:

Solubility: Insoluble

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

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

Density and/or relative density: ~0,55 g/ml

Relative vapour density: There is no information available on this parameter.

Particle characteristics: Does not apply to gases.

9.2 Other information

Explosives: There is no information available on this parameter. Oxidising gases: There is no information available on this parameter.

## **SECTION 10: Stability and reactivity**

## 10.1 Reactivity

See also Subsection 10.2 to 10.6.

The product has not been tested.

## 10.2 Chemical stability

See also Subsection 10.1 to 10.6.

Stable with proper storage and handling.

## 10.3 Possibility of hazardous reactions

See also Subsection 10.1 to 10.6.

#### 10.4 Conditions to avoid

See also section 7.

Open flame, ignition sources

Pressure increase will result in danger of bursting.

Electrostatic charge

#### 10.5 Incompatible materials

See also section 7.

Avoid contact with strong oxidizing agents.

## 10.6 Hazardous decomposition products

See also Subsection 10.1 to 10.5.

See also section 5.2

## **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).



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600 ml Art.: 5482 63, Art.: 5484 63									
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes			
Acute toxicity, by oral route:						n.d.a.			
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.			
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.			

Propane						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by inhalation:	LC50	658	mg/l/4h	Rat		
Acute toxicity, by inhalation:	LC50	260000	ppmV/4h	Rat		Gasses, Male,
						Analogous
						conclusion
Skin corrosion/irritation:						Not irritant
Serious eye damage/irritation:						Not irritant
Germ cell mutagenicity:					OECD 473 (In Vitro Mammalian	Negative
					Chromosome	
					Aberration Test)	
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative
				typhimurium	Reverse Mutation Test)	
Reproductive toxicity	NOAEC	21,641	mg/l		OECD 422 (Combined	
(Developmental toxicity):					Repeated Dose Tox.	
					Study with the	
					Reproduction/Developm.	
					Tox. Screening Test)	
Aspiration hazard:						No
Symptoms:  Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEL	7,214	mg/l	Rat	OECD 422 (Combined Repeated Dose Tox. Study with the	breathing difficulties, unconsciousne , frostbite, headaches, cramps, mucou membrane irritation, dizziness, nausea and vomiting.
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	LOAEL	21,641	mg/l	Rat	Reproduction/Developm. Tox. Screening Test) OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Developm.	

Isobutane						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by inhalation:	LC50	658	mg/l/4h	Rat		



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Acute toxicity, by inhalation:	LC50	260000	ppmV/4h	Rat		Gasses, Male
Serious eye damage/irritation:				Rabbit		Not irritant
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative
				typhimurium	Reverse Mutation Test)	
Aspiration hazard:						No
Symptoms:						unconsciousness, frostbite, headaches, cramps, dizziness, nausea and vomiting.
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEL	21,394	mg/l	Rat	OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Developm. Tox. Screening Test)	

Butane Taxisity / offeet	Endneist	Value	Unit	Organiam	Toot mothed	Notes
Toxicity / effect	Endpoint	Value		Organism	Test method	Notes
Acute toxicity, by inhalation:	LC50	658	mg/l/4h	Rat		
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative
				typhimurium	Reverse Mutation Test)	
Germ cell mutagenicity:					OECD 473 (In Vitro	Negative
					Mammalian	
					Chromosome	
					Aberration Test)	
Germ cell mutagenicity:				Human being	OECD 473 (In Vitro	Negative
3					Mammalian	3.1
					Chromosome	
					Aberration Test)	
Germ cell mutagenicity:				Rat	OECD 474 (Mammalian	Negative
Germ cen matagementy.				IXat	Erythrocyte	Negative
					Micronucleus Test)	
Aspiration hazard:					Microflucieus Test)	No
Aspiration hazard:	NOAEC	24 204	100 Gr /I	Det	OFCD 422 (Combined	INO
Specific target organ toxicity -	NOAEC	21,394	mg/l	Rat	OECD 422 (Combined	
repeated exposure (STOT-RE),					Repeated Dose Tox.	
inhalat.:					Study with the	
					Reproduction/Developm.	
					Tox. Screening Test)	
Symptoms:						ataxia, breathing
						difficulties,
						drowsiness,
						unconsciousnes
						, frostbite,
						disturbed heart
						rhythm,
						headaches.
						cramps,
						intoxication,
						dizziness.
						,
						nausea and
						vomiting.

## 11.2. Information on other hazards

Power Spot Gas Cartridge								
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Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes		
Endocrine disrupting properties:						Does not apply		
						to mixtures.		



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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).

Power Spot Gas Cartridg	ge									
600 ml Art.: 5482 63, Art.: 5484 63										
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. Endocrine							Does not apply			
disrupting properties:							to mixtures.			
12.7. Other adverse							No information			
effects:							available on			
							other adverse			
							effects on the			
							environment.			

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

Isobutane							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.3. Bioaccumulative							A notable
potential:							biological
							accumulation
							potential is not to
							be expected
							(LogPow 1-3).
12.1. Toxicity to fish:	LC50	96h	27,98	mg/l			
12.1. Toxicity to algae:	EC50	96h	7,71	mg/l			
12.2. Persistence and							Readily
degradability:							biodegradable
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB substance

Butane							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	24,11	mg/l		QSAR	
12.1. Toxicity to daphnia:	LC50	48h	14,22	mg/l		QSAR	



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12.3. Bioaccumulative potential:	Log Pow	2,98	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)

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.

E.g. suitable incineration plant.

## For contaminated packing material

Pay attention to local and national official regulations.

If applicable

Return to manufacturer with residual pressure.

Do not perforate, cut up or weld uncleaned container.

## **SECTION 14: Transport information**

## General statements

14.1. UN number or ID number: 2037 Transport by road/by rail (ADR/RID) 14.2. UN proper shipping name:

UN 2037 RECEPTACLES, SMALL, CONTAINING GAS 14.3. Transport hazard class(es): 2.1 14.4. Packing group: 5F Classification code: LQ: 1 L

14.5. Environmental hazards: Not applicable

Tunnel restriction code:

Transport by sea (IMDG-code)

14.2. UN proper shipping name:

RECEPTACLES, SMALL, CONTAINING GAS 14.3. Transport hazard class(es): 2.1

14.4. Packing group:

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

14.5. Environmental hazards: Not applicable

Transport by air (IATA)

14.2. UN proper shipping name: Receptacles, small, containing gas

2.1 14.3. Transport hazard class(es): 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













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

Minimum amount regulations have not been taken into account.

Danger code and packing code on request.

Comply with special provisions.

## **SECTION 15: Regulatory information**

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

Observe restrictions:

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

according to storage, nariding etc.	<i>)</i> .		
Hazard categories	Notes to Annex I	Qualifying quantity (tonnes) of	Qualifying quantity (tonnes) of
		dangerous substances as	dangerous substances as
		referred to in Article 3(10) for the	referred to in Article 3(10) for the
		application of - Lower-tier	application of - Upper-tier
		requirements	requirements
P2		10	50

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

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

Entry Nr	Dangerous substances	Notes to Annex I	Qualifying quantity	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 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):

100 %

## 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

## **SECTION 16: Other information**

Revised sections:

14

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
Flam. Gas 1A, H220	Classification based on test data.
Press. Gas (Comp.), H280	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).

H220 Extremely flammable gas.

Flam. Gas — Flammable gases - Flammable gas



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Press. Gas (Comp.) — Gases under pressure-Compressed gas

## 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.

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## 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)



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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

Effect Concentration/Level for x % effect

and mixtures)

CMR carcinogenic, mutagenic, reproductive toxic

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)
EEC European Economic Community

ELC European Economic Community

EINECS European Inventory of Existing Commercial Chemical Substances
ELINCS European List of Notified Chemical Substances

EN European Norms

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

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

etc. et cetera EU European Union

EVAL Ethylene-vinyl alcohol copolymer

Fax. Fax number gen. general

GHS Globally Harmonized System of Classification and Labelling of Chemicals

GWP Global warming potential

Koc Adsorption coefficient of organic carbon in the soil octanol-water partition coefficient
IARC International Agency for Research on Cancer

IATA International Air Transport Association IBC (Code) International Bulk Chemical (Code)

IMDG-code International Maritime Code for Dangerous Goods

incl. including, inclusive

IUCLID International Uniform Chemical Information Database IUPAC International 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 applicable n.av. not available 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

ppm parts per million PVC Polyvinylchloride

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)

SVHC Substances of Very High Concern



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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

wet weight wwt

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 Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90

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