

## Safety Data Sheet

according to UK REACH Regulation

Page 1 of 18

Print date: 13.03.2023

Revision date: 27.02.2023

VCC 30

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

VCC 30

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

##### Use of the substance/mixture

Aerosol

Paint stripper, containing solvents, dichloromethane-free

##### Uses advised against

Any non-intended use.

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

Company name:	Meusburger Georg GmbH & Co KG	
Street:	Kesselstrasse 42	
Place:	A-6960 Wolfurt	
Telephone:	+43 5574 6706-0	Telefax: +43 5574 6706-12
e-mail:	office@meusburger.com	
Internet:	www.meusburger.com	
Responsible Department:	Dr. Gans-Eichler Chemieberatung GmbH Otto-Hahn-Str. 36 D-48161 Muenster	e-mail: info@tge-consult.de Tel.: +49 2534 41594-0 www.tge-consult.de

#### 1.4. Emergency telephone number:

Poison Information Center Mainz, Germany, Tel: +49(0)6131/19240

#### Further Information

Safety Data Sheet according to UK-REACH Regulation

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### GB CLP Regulation

Aerosol 1; H222-H229

Eye Dam. 1; H318

Full text of hazard statements: see SECTION 16.

#### 2.2. Label elements

##### GB CLP Regulation

##### Hazard components for labelling

1,3-dioxolane

Signal word: Danger

##### Pictograms:



##### Hazard statements

H222

Extremely flammable aerosol.

## Safety Data Sheet

according to UK REACH Regulation

Page 2 of 18

Print date: 13.03.2023

Revision date: 27.02.2023

VCC 30

H229 Pressurised container: May burst if heated.  
H318 Causes serious eye damage.

### Precautionary statements

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.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER/doctor.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

### 2.3. Other hazards

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.  
The substances in the mixture (> 0.1%) do not meet the PBT/vPvB criteria according to UK REACH.  
This product does not contain a substance (> 0.1 %) that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous components

CAS No	Chemical name	Quantity
EC No	GHS Classification	
REACH No		
Index No		
646-06-0	1,3-dioxolane	25 - 50 %
211-463-5	Flam. Liq. 2, Eye Dam. 1; H225 H318	
01-2119490744-29		
605-017-00-2		
106-97-8	butane	25 - 50 %
203-448-7	Flam. Gas 1, Compressed gas; H220 H280	
01-2119474691-32		
601-004-00-0		
109-87-5	dimethoxymethane	10 - 25 %
203-714-2	Flam. Liq. 2; H225	
01-2119664781-31		
74-98-6	propane	10 - 25 %

## Safety Data Sheet

according to UK REACH Regulation

Page 3 of 18

Print date: 13.03.2023

Revision date: 27.02.2023

VCC 30

200-827-9	Flam. Gas 1, Compressed gas; H220 H280	
01-2119486944-21		
601-003-00-5		
918-167-1	hydrocarbons, C11-C12, isoalkanes, <2% aromatics	2,5 - 10 %
01-2119472146-39	Flam. Liq. 3, Asp. Tox. 1; H226 H304 EUH066	

Full text of H and EUH statements: see section 16.

### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
646-06-0	211-463-5	1,3-dioxolane	25 - 50 %
		inhalation: LC50 = 68,4 mg/l (vapours); dermal: LD50 = 9040 mg/kg; oral: LD50 = > 2000 mg/kg	
106-97-8	203-448-7	butane	25 - 50 %
		inhalation: LC50 = >800000 (15min) ppm (gases)	
109-87-5	203-714-2	dimethoxymethane	10 - 25 %
		inhalation: LC50 = 57 mg/l (vapours); dermal: LD50 = >5000 mg/kg; oral: LD50 = 6423 mg/kg	
74-98-6	200-827-9	propane	10 - 25 %
		inhalation: LC50 = 800000 ppm (gases)	
	918-167-1	hydrocarbons, C11-C12, isoalkanes, <2% aromatics	2,5 - 10 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg	

### Labelling for contents according to Regulation (EC) No 648/2004

>= 30 % aliphatic hydrocarbons.

### Further Information

Product does not contain listed SVHC substances > 0.1 % according to UK REACH.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

#### After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of respiratory tract irritation, consult a physician.

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, seek medical treatment.

#### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of troubles or persistent symptoms, consult an ophthalmologist.

#### After ingestion

If swallowed, immediately drink: Water. Never give anything by mouth to an unconscious person or a person with cramps. Do NOT induce vomiting. Caution if victim vomits: Risk of aspiration! Call a physician

## Safety Data Sheet

according to UK REACH Regulation

Page 4 of 18

Print date: 13.03.2023

Revision date: 27.02.2023

VCC 30

immediately.

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

No information available.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>). Dry extinguishing powder. Alcohol resistant foam. Atomized water.

#### **Unsuitable extinguishing media**

High power water jet.

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

Combustible. Vapours may form explosive mixtures with air. Can be released in case of fire: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO).

### **5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.

#### **Additional information**

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains. In case of fire and/or explosion do not breathe fumes.

## SECTION 6: Accidental release measures

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

#### **General advice**

Ventilate affected area. Remove all sources of ignition. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes.

#### **For non-emergency personnel**

Wear personal protection equipment (refer to section 8).

#### **For emergency responders**

Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.

### **6.2. Environmental precautions**

Do not allow to enter into surface water or drains. Explosion hazard. Eliminate leaks immediately. Prevent spread over a wide area (e.g. by containment or oil barriers). In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

### **6.3. Methods and material for containment and cleaning up**

#### **For containment**

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

#### **For cleaning up**

Clean contaminated objects and areas thoroughly observing environmental regulations.

### **6.4. Reference to other sections**

Safe handling: see section 7

## Safety Data Sheet

according to UK REACH Regulation

Page 5 of 18

Print date: 13.03.2023

Revision date: 27.02.2023

VCC 30

Personal protection equipment: see section 8

Disposal: see section 13

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

##### **Advice on safe handling**

Use only in well-ventilated areas. Take precautionary measures against static discharges. Do not spray on naked flames or any incandescent material. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches.

When diluting, always get the water first and then add the product.

Wear suitable protective clothing.

##### **Advice on protection against fire and explosion**

Keep away from sources of ignition. - No smoking. Heating causes rise in pressure with risk of bursting.

##### **Advice on general occupational hygiene**

Always close containers tightly after the removal of product.

Do not eat, drink, smoke or sneeze at the workplace.

Wash hands before breaks and after work.

##### **Further information on handling**

General protection and hygiene measures: refer to chapter 8

#### 7.2. Conditions for safe storage, including any incompatibilities

##### **Requirements for storage rooms and vessels**

Keep container tightly closed in a cool, well-ventilated place. Keep away from sources of ignition. - No smoking.

Provide adequate ventilation.

Suitable material for Container: Stainless steel.

##### **Hints on joint storage**

Do not store together with: Explosives. Flammable solids. Pyrophoric liquids and solids. Self-heating substances and mixtures. Substances and mixtures which, in contact with water, emit flammable gases. Oxidizing liquids. Oxidizing solids. Self-reactive substances and mixtures. Organic peroxides. Radioactive substances.

Infectious substances.

##### **Further information on storage conditions**

Recommended storage temperature: 10-30 °C. Do not store at temperatures over: 50 °C

Note: Storage requirements for flammable aerosols.

#### 7.3. Specific end use(s)

See section 1.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

## Safety Data Sheet

according to UK REACH Regulation

Page 6 of 18

Print date: 13.03.2023

Revision date: 27.02.2023

VCC 30

### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
106-97-8	Butane	600	1450		TWA (8 h)	WEL
		750	1810		STEL (15 min)	WEL
109-87-5	Dimethoxymethane	1000	3160		TWA (8 h)	WEL
		1250	3950		STEL (15 min)	WEL

### DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
646-06-0	1,3-dioxolane			
Worker DNEL, long-term		inhalation	systemic	3,306 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	1,18 mg/kg bw/day
109-87-5	dimethoxymethane			
Worker DNEL, long-term		dermal	systemic	17,9 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	31,5 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	18,1 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	18,1 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	126,6 mg/m <sup>3</sup>

### PNEC values

CAS No	Substance	Value
Environmental compartment		
646-06-0	1,3-dioxolane	
Freshwater		19,7 mg/l
Freshwater (intermittent releases)		0,95 mg/l
Marine water		1,97 mg/l
Freshwater sediment		77,7 mg/kg
Marine sediment		7,77 mg/kg
Micro-organisms in sewage treatment plants (STP)		1 mg/l
Soil		2,62 mg/kg
109-87-5	dimethoxymethane	
Freshwater		14,577 mg/l
Marine water		1,477 mg/l
Freshwater sediment		13,135 mg/kg
Marine sediment		1,3135 mg/kg
Micro-organisms in sewage treatment plants (STP)		10000 mg/l
Soil		4,6538 mg/kg

## Safety Data Sheet

according to UK REACH Regulation

Page 7 of 18

Print date: 13.03.2023

Revision date: 27.02.2023

VCC 30

### 8.2. Exposure controls



#### Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

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

##### Eye/face protection

Wear safety glasses; chemical goggles (if splashing is possible).

##### Hand protection

In case of prolonged or frequently repeated skin contact: Wear suitable gloves.

Suitable material:

NBR (Nitrile rubber). (0,5 mm)

Breakthrough time >480 min

Penetration time (maximum wearing period): >160 min

The selected protective gloves have to satisfy the specifications of the Personal Protective Equipment at Work (Amendment) Regulations 2022 and the standard EN ISO 374.

Check leak tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well.

##### Skin protection

Protective clothing.

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500 (D).

##### Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

Exceeding exposure limit values

Insufficient ventilation

Suitable respiratory protective equipment: Protective respiration apparatus not using surrounding air (breathing apparatus) (DIN EN 133).

Use only respiratory protection equipment with CE-symbol including four digit test number.

##### Thermal hazards

No special precautionary measures are necessary.

##### Environmental exposure controls

Do not allow uncontrolled discharge of product into the environment.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state:	Aerosol
Colour:	colourless
Odour:	characteristic
Odour threshold:	not determined

## Safety Data Sheet

according to UK REACH Regulation

Page 8 of 18

Print date: 13.03.2023

Revision date: 27.02.2023

VCC 30

Melting point/freezing point:	< -20 °C
Boiling point or initial boiling point and boiling range:	not determined
Flammability:	not determined
Lower explosion limits:	1,5 vol. %
Upper explosion limits:	30,5 vol. %
Flash point:	< -20 °C
Auto-ignition temperature:	not determined
Decomposition temperature:	not determined
pH-Value:	not determined
Viscosity / kinematic:	not determined
Water solubility:	insoluble
Solubility in other solvents	
Soluble in: hydrocarbons.	
Dissolution rate:	not relevant
Partition coefficient n-octanol/water:	not determined
Dispersion stability:	not relevant
Vapour pressure:	not determined
Density (at 20 °C):	0,748 g/cm <sup>3</sup>
Bulk density:	not determined
Relative vapour density:	not determined
Particle characteristics:	not determined

### 9.2. Other information

#### Information with regard to physical hazard classes

##### Explosive properties

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

##### Sustaining combustion:

No data available

##### Self-ignition temperature

Solid:

not relevant

Gas:

not determined

##### Oxidizing properties

none

#### Other safety characteristics

##### Evaporation rate:

not determined

##### Solvent separation test:

not determined

##### Solvent content:

not determined

##### Solid content:

not determined

##### Sublimation point:

not determined

##### Softening point:

not determined

##### Pour point:

not determined

##### Viscosity / dynamic:

not determined

##### Flow time:

not determined

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No information available.

### 10.2. Chemical stability



## Safety Data Sheet

according to UK REACH Regulation

Page 9 of 18

Print date: 13.03.2023

Revision date: 27.02.2023

VCC 30

The product is stable under storage at normal ambient temperatures.

### **10.3. Possibility of hazardous reactions**

Formations of peroxides possible.  
Refer to chapter 10.5.

### **10.4. Conditions to avoid**

Keep away from heat.  
Ignition hazard.  
Heating causes rise in pressure with risk of bursting.

### **10.5. Incompatible materials**

Oxidizing agents, strong.

### **10.6. Hazardous decomposition products**

Carbon dioxide (CO<sub>2</sub>). Carbon monoxide Peroxides. hydrocarbons. Gas/vapours, corrosive.  
Does not decompose when used for intended uses.

### **Further information**

In use, may form flammable/explosive vapour-air mixture.

## SECTION 11: Toxicological information

### **11.1. Information on hazard classes as defined in GB CLP Regulation**

#### **Toxicokinetics, metabolism and distribution**

No information available.

#### **Acute toxicity**

Based on available data, the classification criteria are not met.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
646-06-0	1,3-dioxolane				
	oral	LD50 > 2000 mg/kg	Rat	ECHA dossier	OECD 401
	dermal	LD50 9040 mg/kg	Rabbit		
	inhalation (4 h) vapour	LC50 68,4 mg/l	Rat	ECHA dossier	OECD 403
106-97-8	butane				
	inhalation gas	LC50 >800000 (15min) ppm		ECHA dossier	
109-87-5	dimethoxymethane				
	oral	LD50 6423 mg/kg	Rat	ECHA dossier	OECD 423
	dermal	LD50 >5000 mg/kg	Rabbit.	ECHA dossier	OECD 402
	inhalation vapour	LC50 57 mg/l	Mouse.	ECHA dossier	OECD 403
74-98-6	propane				
	inhalation gas	LC50 800000 ppm	Rat	ECHA dossier	15 min
	hydrocarbons, C11-C12, isoalkanes, <2% aromatics				

## Safety Data Sheet

according to UK REACH Regulation

Page 10 of 18

Print date: 13.03.2023

Revision date: 27.02.2023

VCC 30

oral	LD50 mg/kg	> 5000	Rat	ECHA dossier	read-across
dermal	LD50 mg/kg	> 2000	Rat	ECHA dossier	read-across

### Irritation and corrosivity

Causes serious eye damage.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

### Sensitising effects

Based on available data, the classification criteria are not met.

### Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

1,3-dioxolane:

In-vitro mutagenicity:

Method: OECD Guideline 471 (Bacterial Reverse Mutation Assay), OECD Guideline 476 (In Vitro Mammalian Cell Gene Mutation Test); Result: negative.

Literature information: ECHA dossier

Reproductive toxicity: Species: Rat; Method: OECD Guideline 415 (One-Generation Reproduction Toxicity Study); Result: NOAEC > = 125 ppm

Literature information: ECHA dossier

Developmental toxicity/teratogenicity: Species: Rat; Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study); Result: NOAEL = 500 mg/kg

Literature information: ECHA dossier

butane:

In-vitro mutagenicity:

Method: OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)

Result: negative.

Literature information: ECHA dossier

Reproductive toxicity:

Method: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

Species: Rat

Results: NOAEC = 9000 ppm(21394 mg/m3)

Literature information: ECHA dossier

Developmental toxicity/teratogenicity:

Method: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

Species: Rat

Results: NOAEC = 9000 ppm.

Literature information: ECHA dossier

propane:

In-vitro mutagenicity: Method: OECD Guideline 471 (Bacterial Reverse Mutation Assay) Result: negative.

Literature information: ECHA dossier

Reproductive toxicity: Method: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

Species: Rat Exposure duration: 6 w. Results: NOAEC = 12000 ppm

Literature information: ECHA dossier

Developmental toxicity/teratogenicity: Method: OECD Guideline 422 (Combined Repeated Dose Toxicity Study

## Safety Data Sheet

according to UK REACH Regulation

Page 11 of 18

Print date: 13.03.2023

Revision date: 27.02.2023

VCC 30

with the Reproduction / Developmental Toxicity Screening Test) Species: Rat Results: NOAEC = 12000 ppm  
Literature information: ECHA dossier

hydrocarbons, C11-C12, isoalkanes, <2% aromatics:  
Reproductive toxicity: Method: OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test)  
Species: Rat; Exposure duration: 8 w. Results: NOAEC = 300 ppm  
Literature information: ECHA dossier  
Developmental toxicity/teratogenicity: Method: Guidelines for Reproduction Studies for Safety and Evaluation of  
Drugs for Human Use, Segment II (Teratology Study); Species: Rat; Results: NOAEC >= 300 ppm  
Literature information: ECHA dossier

### STOT-single exposure

Based on available data, the classification criteria are not met.

### STOT-repeated exposure

Based on available data, the classification criteria are not met.

1,3-dioxolane:

Subacute oral toxicity : Method: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents);  
Exposure time: 28d. Species: Rat; Results: NOAEL = 298 ppm (135-205 mg/kg)  
Literature information: ECHA dossier

Hydrochloric gas. Subchronic inhalation toxicity: Method OECD Guideline 413 (Subchronic Inhalation Toxicity:  
90-day Study); Species: Rat Exposure duration: 90 d. Result: NOAEC = 20 ppm  
Literature information: ECHA dossier

butane:

Subacute inhalative toxicity:  
Method: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction /  
Developmental Toxicity Screening Test)  
Species: Rat  
Exposure duration: 6 w.  
Result: NOAEC = 9000 ppm(21394 mg/m<sup>3</sup>)  
Literature information: ECHA dossier

dimethoxymethane:

Subchronic oral toxicity:  
Method: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day), Species: Rat.  
Result: NOAEL = 6 mg/l  
Literature information: ECHA dossier  
Germ cell mutagenicity:.  
Method: OECD Guideline 471 (Bacterial Reverse Mutation Assay), Species: Salmonella typhimurium.  
Result: negative.  
Literature information: ECHA dossier  
Developmental toxicity/teratogenicity:  
Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study)  
Result: NOAEL (Inhalation) = 10068 ppm  
Literature information: ECHA dossier

propane:

Subacute inhalative toxicity: Method: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the  
Reproduction / Developmental Toxicity Screening Test) Species: Rat Exposure duration: 6 w. Result: NOAEC  
= 94000 ppm ( 7214 mg/m<sup>3</sup>)

## Safety Data Sheet

according to UK REACH Regulation

Page 12 of 18

Print date: 13.03.2023

Revision date: 27.02.2023

VCC 30

Literature information: ECHA dossier

### Aspiration hazard

Based on available data, the classification criteria are not met.

### Specific effects in experiment on an animal

No information available.

## 11.2. Information on other hazards

### Endocrine disrupting properties

This product does not contain a substance (> 0.1 %) that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

### Other information

No data available.

## SECTION 12: Ecological information

### 12.1. Toxicity

The product has not been tested.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
646-06-0	1,3-dioxolane					
	Acute fish toxicity	LC50 > 95,4 mg/l	96 h	Lepomis macrochirus	ECHA dossier	OECD 203
	Acute algae toxicity	ErC50 > 877 mg/l	72 h	Pseudokirchneriella subcapitata	ECHA dossier	OECD 201
	Acute crustacea toxicity	EC50 > 772 mg/l	48 h	Daphnia magna	ECHA dossier	OECD 202
	Fish toxicity	NOEC 546,3 mg/l	30 d	No data.	ECHA dossier	QSAR
	Acute bacteria toxicity	(EC50 > 100 mg/l)	3 h	activated sludge of a predominantly domestic sewage	ECHA dossier	OECD 209
106-97-8	butane					
	Acute fish toxicity	LC50 49,9 mg/l	96 h	Fish	ECHA dossier	
	Acute algae toxicity	ErC50 19,37 mg/l	96 h	algae	ECHA dossier	
	Acute crustacea toxicity	EC50 69,43 mg/l	48 h	Daphnia magna	ECHA dossier	
109-87-5	dimethoxymethane					
	Acute fish toxicity	LC50 >1000 mg/l	96 h	Danio rerio	ECHA dossier	OECD 203
	Acute algae toxicity	ErC50 6000 mg/l		Chlorella vulgaris	ECHA dossier	
	Acute crustacea toxicity	EC50 >1000 mg/l	48 h	Daphnia magna	ECHA dossier	OECD 202
74-98-6	propane					
	Acute fish toxicity	LC50 49,9 mg/l	96 h	Fish	ECHA dossier	

## Safety Data Sheet

according to UK REACH Regulation

Page 13 of 18

Print date: 13.03.2023

Revision date: 27.02.2023

VCC 30

	Acute algae toxicity	ErC50 mg/l	19,37	96 h	algae	ECHA dossier	
	Acute crustacea toxicity	EC50 mg/l	69,43	48 h	Daphnia magna	ECHA dossier	
hydrocarbons, C11-C12, isoalkanes, <2% aromatics							
	Acute algae toxicity	ErC50 mg/l	> 1000	72 h	Pseudokirchneriella subcapitata	ECHA dossier	OECD 201
	Fish toxicity	NOEC mg/l	0,209	28 d	Oncorhynchus mykiss	ECHA dossier	
	Crustacea toxicity	NOEC	> 1 mg/l	21 d	Daphnia magna	ECHA dossier	OECD 211

### 12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name		Method	Value	d	Source
			Evaluation			
646-06-0	1,3-dioxolane		OECD 301 D	3,7	35	ECHA dossier
			Not easily bio-degradable (according to OECD-criteria).			
	hydrocarbons, C11-C12, isoalkanes, <2% aromatics		OECD 301 F	41,7%	28	ECHA dossier
			Not easily bio-degradable (according to OECD-criteria).			

### 12.3. Bioaccumulative potential

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
646-06-0	1,3-dioxolane	-0,725
106-97-8	butane	1,09
109-87-5	dimethoxymethane	0
74-98-6	propane	2,36

### 12.4. Mobility in soil

No information available.

### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1 %.

### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1 %.

### 12.7. Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

## Safety Data Sheet

according to UK REACH Regulation

Page 14 of 18

Print date: 13.03.2023

Revision date: 27.02.2023

VCC 30

### Disposal recommendations

Dispose of waste according to applicable legislation.

Non-contaminated packages may be recycled.

According to (EWC) European Waste Catalogue, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

### List of Wastes Code - residues/unused products

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

### List of Wastes Code - used product

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

### List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

### Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

## SECTION 14: Transport information

### Land transport (ADR/RID)

<b>14.1. UN number or ID number:</b>	UN 1950
<b>14.2. UN proper shipping name:</b>	AEROSOLS
<b>14.3. Transport hazard class(es):</b>	2
<b>14.4. Packing group:</b>	-
Hazard label:	2.1



Classification code:	5F
Special Provisions:	190 327 344 625
Limited quantity:	1 L
Excepted quantity:	E0
Transport category:	2
Tunnel restriction code:	D

### Inland waterways transport (ADN)

<b>14.1. UN number or ID number:</b>	UN 1950
<b>14.2. UN proper shipping name:</b>	AEROSOLS
<b>14.3. Transport hazard class(es):</b>	2
<b>14.4. Packing group:</b>	-
Hazard label:	2.1

## Safety Data Sheet

according to UK REACH Regulation

Page 15 of 18

Print date: 13.03.2023

Revision date: 27.02.2023

VCC 30



Classification code: 5F  
 Special Provisions: 190 327 344 625  
 Limited quantity: 1 L  
 Excepted quantity: E0

### Marine transport (IMDG)

**14.1. UN number or ID number:** UN 1950  
**14.2. UN proper shipping name:** AEROSOLS  
**14.3. Transport hazard class(es):** 2.1  
**14.4. Packing group:** -  
 Hazard label: 2.1



Marine pollutant: NO  
 Special Provisions: 63, 190, 277, 327, 344, 381, 959  
 Limited quantity: 1000 mL  
 Excepted quantity: E0  
 EmS: F-D, S-U

### Air transport (ICAO-TI/IATA-DGR)

**14.1. UN number or ID number:** UN 1950  
**14.2. UN proper shipping name:** AEROSOLS, FLAMMABLE  
**14.3. Transport hazard class(es):** 2.1  
**14.4. Packing group:** -  
 Hazard label: 2.1



Special Provisions: A145 A167 A802  
 Limited quantity Passenger: 30 kg G  
 Passenger LQ: Y203  
 Excepted quantity: E0  
 IATA-packing instructions - Passenger: 203  
 IATA-max. quantity - Passenger: 75 kg  
 IATA-packing instructions - Cargo: 203  
 IATA-max. quantity - Cargo: 150 kg

### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

### 14.6. Special precautions for user

Refer to section 6 - 8

### 14.7. Maritime transport in bulk according to IMO instruments

not applicable

## SECTION 15: Regulatory information

## Safety Data Sheet

according to UK REACH Regulation

Page 16 of 18

Print date: 13.03.2023

Revision date: 27.02.2023

VCC 30

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

#### EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 29, Entry 40

2010/75/EU (VOC):	not determined
2004/42/EC (VOC):	not determined
Information according to 2012/18/EU (SEVESO III):	P3a FLAMMABLE AEROSOLS

#### Additional information

Safety Data Sheet according to UK-REACH Regulation  
 UK Aerosols Regulation  
 UK REACH Appendix XVII, No (mixture): 3, 40  
 The mixture is classified as hazardous according to GHS (GB CLP).

#### National regulatory information

Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).
Water hazard class (D):	1 - slightly hazardous to water

### 15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

1,3-dioxolane  
 dimethoxymethane  
 propane  
 hydrocarbons, C11-C12, isoalkanes, <2% aromatics

## SECTION 16: Other information

#### Changes

Rev. 1,0; Initial release 23.04.2018  
 Rev. 2,0; Revision 03.04.2020 Changes in chapter: 2-16  
 Rev. 2,1; Revision 02.06.2021 Changes in chapter: 2-16  
 Rev. 3,0; Revision 27.02.2023 Changes in chapter: 1-16

#### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 CAS: Chemical Abstracts Service  
 CLP: Classification, Labelling and Packaging of substances and mixtures  
 DNEL: Derived No Effect Level  
 d: day(s)  
 EINECS: European INventory of Existing Commercial chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 ECHA: European Chemicals Agency  
 EWC: European Waste Catalogue  
 IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
 ICAO: International Civil Aviation Organization



## Safety Data Sheet

according to UK REACH Regulation

Page 17 of 18

Print date: 13.03.2023

Revision date: 27.02.2023

VCC 30

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)  
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
 GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)  
 h: hour  
 LOAEL: Lowest observed adverse effect level  
 LOAEC: Lowest observed adverse effect concentration  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 NOAEL: No observed adverse effect level  
 NOAEC: No observed adverse effect concentration  
 NLP: No-Longer Polymers  
 N/A: not applicable  
 OECD: Organisation for Economic Co-operation and Development  
 PNEC: predicted no effect concentration  
 PBT: Persistent bioaccumulative toxic  
 RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail )  
 REACH: Registration, Evaluation, Authorisation of Chemicals  
 SVHC: substance of very high concern  
 TRGS: Technische Regeln für Gefahrstoffe  
 UN: United Nations  
 VOC: Volatile Organic Compounds

### Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Aerosol 1; H222-H229	On basis of test data
Eye Dam. 1; H318	Bridging principle "Aerosols"

### Relevant H and EUH statements (number and full text)

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H318	Causes serious eye damage.
EUH066	Repeated exposure may cause skin dryness or cracking.

### Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

## Safety Data Sheet

according to UK REACH Regulation

Page 18 of 18

Print date: 13.03.2023

Revision date: 27.02.2023

VCC 30

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*