

## Safety Data Sheet

according to UK REACH Regulation

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Print date: 13.03.2023

Revision date: 02.03.2023

VGI 250 S

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

#### 1.1. Product identifier

VGI 250 S

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

##### Use of the substance/mixture

Aerosol

Lubricant, lubricants and release products

##### 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

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### SECTION 2: Hazards identification

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

##### GB CLP Regulation

Aerosol 3; H229

Full text of hazard statements: see SECTION 16.

#### 2.2. Label elements

##### GB CLP Regulation

Signal word: Warning

##### Hazard statements

H229 Pressurised container: May burst if heated.

##### Precautionary statements

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

P251 Do not pierce or burn, even after use.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

#### 2.3. Other hazards

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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		
29118-24-9	Propene, 1,3,3,3,-tetrafluoro-,(E)-	50 - 100 %
810-135-4	Compressed gas; H280 EUH044	

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	
29118-24-9	810-135-4	Propene, 1,3,3,3,-tetrafluoro-,(E)-	50 - 100 %
		inhalation: LC50 = > 207000 ppm (gases)	

##### 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

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

##### After contact with eyes

Rinse cautiously with water for several minutes. In case of troubles or persistent symptoms, consult an ophthalmologist.

##### After ingestion

Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.

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

No information available.

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### **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>). Sand. Extinguishing powder.

#### **Unsuitable extinguishing media**

Water

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

Can be released in case of fire: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Fluorhydric acid. Gas/vapours, toxic.

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

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

#### **Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.  
Co-ordinate fire-fighting measures to the fire surroundings.

## SECTION 6: Accidental release measures

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

#### **General advice**

See protective measures under point 7 and 8.

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

Wear personal protection equipment (refer to section 8).

#### **For emergency responders**

No special measures are necessary.

### **6.2. Environmental precautions**

Discharge into the environment must be avoided.

### **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

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**

Provide adequate ventilation.

Do not spray on naked flames or any incandescent material.

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Wear suitable protective clothing. See section 8.

### Advice on protection against fire and explosion

Usual measures for fire prevention.

### 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.

### 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

Keep the packing dry and well sealed to prevent contamination and absorption of humidity.

Recommended storage temperature: 20 °C

Maximum storage temperature: 50 °C

Protect against: frost. UV-radiation/sunlight. heat. Humidity

## 7.3. Specific end use(s)

See section 1.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Additional advice on limit values

To date, no national critical limit values exist.

### 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.

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Suitable material:

NBR (Nitrile rubber). - Thickness of glove material: 0,35 mm

Breakthrough time  $\geq$  8 h

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.

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

### Skin protection

Suitable protective clothing: Lab apron.

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.

### Environmental exposure controls

This material and its container must be disposed of in a safe way.

## 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	
Melting point/freezing point:		not determined
Boiling point or initial boiling point and boiling range:		not determined
Flammability:		not determined
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Flash point:		not relevant
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:		SECTION 12: Ecological information
Dispersion stability:		not relevant
Vapour pressure:		not determined
Density (at 20 °C):		1,85 - 1,93 g/cm <sup>3</sup>
Bulk density:		not determined

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Relative vapour density:	not determined
Particle characteristics:	not relevant

### **9.2. Other information**

#### **Information with regard to physical hazard classes**

Explosive properties	
none	
Sustaining combustion:	No data available
Self-ignition temperature	
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

#### **Further Information**

No information available.

## SECTION 10: Stability and reactivity

### **10.1. Reactivity**

No information available.

### **10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

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

Heating causes rise in pressure with risk of bursting.  
Refer to chapter 10.5.

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

Protect against: UV-radiation/sunlight. heat.

### **10.5. Incompatible materials**

Materials to avoid: Strong acid. Alkali metals.

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

Pyrolysis products, toxic, contains fluorine. Gas/vapours, flammable. Carbon monoxide Carbon dioxide (CO<sub>2</sub>). hydrocarbons.

## SECTION 11: Toxicological information

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

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

No data available.

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### Acute toxicity

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

CAS No	Chemical name					
	Exposure route	Dose	Species	Source	Method	
29118-24-9	Propene, 1,3,3,3,-tetrafluoro-,(E)-					
	inhalation (4 h) gas	LC50 > 207000 ppm	Rat	ECHA dossier	OECD 403	

### Irritation and corrosivity

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.

### 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.

### Aspiration hazard

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

### Specific effects in experiment on an animal

No data 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
29118-24-9	Propene, 1,3,3,3,-tetrafluoro-,(E)-					
	Acute fish toxicity	LC50 > 117 mg/l	96 h	Cyprinus carpio (Common Carp)	ECHA dossier	OECD 203
	Acute algae toxicity	ErC50 >= 170 mg/l	72 h	Raphidocelis subcapitata	ECHA dossier	OECD 201
	Acute crustacea toxicity	EC50 > 160 mg/l	48 h	Daphnia magna (Big water flea)	ECHA dossier	OECD 202

### 12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name

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	Method	Value	d	Source
	Evaluation			
29118-24-9	Propene, 1,3,3,3,-tetrafluoro-,(E)-			
	OECD 301D / EEC 92/69 annex V, C.4-E	0 %	28	ECHA dossier
	Not readily biodegradable (according to OECD criteria)			

### **12.3. Bioaccumulative potential**

No indication of bioaccumulation potential.

### **12.4. Mobility in soil**

No data 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 components in this formulation (>0.1%) do not meet the criteria for classification as PBT or vPvB.

### **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 data available.

### **Further information**

Propene, 1,3,3,3,-tetrafluoro-,(E)-:

Ozone depletion potential (ODP): 0

Global warming potential (GWP) < 1

## SECTION 13: Disposal considerations

### **13.1. Waste treatment methods**

#### **Disposal recommendations**

Observe in addition any national regulations! Consult the local waste disposal expert about waste disposal.

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**

140601 WASTE ORGANIC SOLVENTS, REFRIGERANTS AND PROPELLANTS (EXCEPT 07 AND 08); waste organic solvents, refrigerants and foam/aerosol propellants; chlorofluorocarbons, HCFC, HFC; hazardous waste

#### **List of Wastes Code - used product**

140601 WASTE ORGANIC SOLVENTS, REFRIGERANTS AND PROPELLANTS (EXCEPT 07 AND 08); waste organic solvents, refrigerants and foam/aerosol propellants; chlorofluorocarbons, HCFC, HFC; hazardous waste

#### **List of Wastes Code - contaminated packaging**

150106 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); mixed packaging



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### Contaminated packaging

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

## SECTION 14: Transport information

### Land transport (ADR/RID)

**14.1. UN number or ID number:** UN 1950  
**14.2. UN proper shipping name:** AEROSOLS  
**14.3. Transport hazard class(es):** 2  
**14.4. Packing group:** -  
 Hazard label: 2.2



Classification code: 5A  
 Special Provisions: 190 327 344 625  
 Limited quantity: 1 L  
 Excepted quantity: E0  
 Transport category: 3  
 Tunnel restriction code: E

### Inland waterways transport (ADN)

**14.1. UN number or ID number:** UN 1950  
**14.2. UN proper shipping name:** AEROSOLS  
**14.3. Transport hazard class(es):** 2  
**14.4. Packing group:** -  
 Hazard label: 2.2



Classification code: 5A  
 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):** 2.2  
**14.4. Packing group:** -  
 Hazard label: 2.2



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

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

<b>14.1. UN number or ID number:</b>	UN 1950
<b>14.2. UN proper shipping name:</b>	AEROSOLS, non-flammable
<b>14.3. Transport hazard class(es):</b>	2.2
<b>14.4. Packing group:</b>	-
Hazard label:	2.2



Special Provisions:	A98 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 relevant

## SECTION 15: Regulatory information

### 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

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

#### Additional information

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

#### 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

Chemical safety assessments for substances in this mixture were not carried out.

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### SECTION 16: Other information

#### Changes

- Rev. 1,0; Initial release: 07.05.2018
- Rev. 1,1; Changes in chapter: 1; 14.09.2018
- Rev. 2,0; Revision 03.04.2020 Changes in chapter: 2-16
- Rev. 3,0; Revision 02.03.2023 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, Labeling, Packaging
- 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
- ECOSAR: Ecological Structure Activity Relationships
- 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
- ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
- IUCLID: International Uniform Chemical Information Database
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals
- GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)
- OECD: Organisation for Economic Co-operation and Development
- PNEC: Predicted No Effect Concentration
- PBT: Persistent, bio-cumulative, toxic
- QSAR: Quantitative Structure-Activity Relationship
- RID: Regulation Concerning the International Transport of Dangerous Goods by Rail
- RTECS: Registry of Toxic Effects of Chemical Substances
- SVHC: Substance of Very High Concern
- TRGS: Technische Regeln für Gefahrstoffe
- UN: United Nations
- vPvB: very persistent and very bio-cumulative
- VOC: Volatile Organic Compounds
- w: week(s)

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

Classification	Classification procedure
Aerosol 3; H229	On basis of test data

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

- H229 Pressurised container: May burst if heated.
- H280 Contains gas under pressure; may explode if heated.
- EUH044 Risk of explosion if heated under confinement.

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### 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.

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