

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 21 Feb 2022

Print date: 23 Feb 2022

Version: 2.8



Page 1/9

Muster-GeSi-Reiniger Orange, Konzentrat

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

1.1. Product identifier

Trade name/designation:

Muster-GeSi-Reiniger Orange, Konzentrat

UFI:

VX8F-NMMT-09F8-7MEH

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

Use of the substance/mixture:

Reducing agent

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

Supplier (manufacturer/importer/only representative/downstream user/distributor):

GeSi Chemie GmbH

Kaiserstraße 22

97070 Würzburg

Germany

Telephone: 0931 465 33 00

Telefax: 0931 465 33 33

E-mail: Vertrieb@GeSi.de

Website: www.GeSi.de

E-mail (competent person): MMustermann@GeSi-Chemie.de

1.4. Emergency telephone number

Giftnotruf Nürnberg, 24h: 111 222 333 444, 0931 465 33 00 (Only available during office hours.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
flammable liquids (<i>Flam. Liq. 3</i>)	H226: Flammable liquid and vapour.	On basis of test data.
Aspiration hazard (<i>Asp. Tox. 1</i>)	H304: May be fatal if swallowed and enters airways.	Calculation method.
Skin corrosion/irritation (<i>Skin Irrit. 2</i>)	H315: Causes skin irritation.	Calculation method.
Respiratory or skin sensitisation (<i>Skin Sens. 1</i>)	H317: May cause an allergic skin reaction.	Calculation method.
Serious eye damage/eye irritation (<i>Eye Dam. 1</i>)	H318: Causes serious eye damage.	Calculation method.
Hazardous to the aquatic environment (<i>Aquatic Chronic 2</i>)	H411: Toxic to aquatic life with long lasting effects.	Calculation method.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



GHS02
Flame



GHS05
Corrosion



GHS07
Exclamation mark



GHS08
Health hazard



GHS09
Environment

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 21 Feb 2022

Print date: 23 Feb 2022

Version: 2.8



Page 2/9

Muster-GeSi-Reiniger Orange, Konzentrat

Signal word: Danger

Hazard components for labelling:

Detergent; Orange, sweet, ext.

Hazard statements for physical hazards

H226 Flammable liquid and vapour.

Hazard statements for health hazards

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

Hazard statements for environmental hazards

H411 Toxic to aquatic life with long lasting effects.

Supplemental hazard information

EUH066 Repeated exposure may cause skin dryness or cracking.

EUH208 Contains Orange, sweet, ext.. May produce an allergic reaction.

Precautionary statements Prevention

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

Precautionary statements Response

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/...

P331 Do NOT induce vomiting.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

Precautionary statements Storage

P405 Store locked up.

Special rules for supplemental label elements for certain mixtures:

60,0 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (dermal).

60,0 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (inhalative).

Special rules on packaging:

Child-resistant fastenings (EN/862/ISO 8317).

2.3. Other hazards

Adverse physicochemical effects:

This material is combustible, see section 9 for further information.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 8028-48-6 EC No.: 232-433-8 REACH No.: 01-2119493353-35	Orange, sweet, ext. Aquatic Chronic 2 (H411), Asp. Tox. 1 (H304), Flam. Liq. 3 (H226), Skin Irrit. 2 (H315), Skin Sens. 1 (H317) Danger	36 - < 70 weight-%
CAS No.: 26183-52-8 EC No.: 500-046-6	Detergent Acute Tox. 4 (H302), Eye Dam. 1 (H318) Danger	9 - ≤ 15 weight-%

Full text of H- and EUH-phrases: see section 16.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 21 Feb 2022

Print date: 23 Feb 2022

Version: 2.8



Page 3/9

Muster-GeSi-Reiniger Orange, Konzentrat

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). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended. Warning First aider: Pay attention to self-protection!

Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician.

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

After eye contact:

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Following ingestion:

Rinse mouth. Let 1 glass of water be drunken in little sips (dilution effect). Get medical advice/attention if you feel unwell. Do NOT induce vomiting. Observe risk of aspiration if vomiting occurs. Get immediate medical advice/attention.

Self-protection of the first aider:

Use personal protection equipment.

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

Pneumonia Pulmonary oedema Skin corrosion/irritation Allergic reactions Serious eye damage/eye irritation

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:

Water spray jet, alcohol resistant foam, Extinguishing powder, Carbon dioxide (CO₂)

Unsuitable extinguishing media:

Full water jet

5.2. Special hazards arising from the substance or mixture

Combustible

Hazardous combustion products:

In case of fire: Gases/vapours, toxic

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Remove persons to safety.

Protective equipment:

Wear protective gloves/protective clothing/eye protection/face protection.

Emergency procedures:

Provide adequate ventilation.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 21 Feb 2022

Print date: 23 Feb 2022

Version: 2.8



Page 4/9

Muster-GeSi-Reiniger Orange, Konzentrat

6.1.2. For emergency responders

Personal protection equipment:

Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For containment:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up:

Water (with cleaning agent)

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

6.5. Additional information

Use appropriate container to avoid environmental contamination.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Wear personal protection equipment (refer to section 8).

Fire prevent measures:

Take precautionary measures against static discharge. Keep away from sources of ignition - No smoking.

Environmental precautions:

Provide for retaining containers, e.g. floor pan without outflow.

Advices on general occupational hygiene

When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place.

Requirements for storage rooms and vessels:

Provide for retaining containers, e.g. floor pan without outflow.

Storage class (TRGS 510, Germany): 3 - Flammable liquids

7.3. Specific end use(s)

Recommendation:

Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
TRGS 900 (DE)	Orange, sweet, ext. CAS No.: 8028-48-6 EC No.: 232-433-8	① 5 ppm (28 mg/m ³) ② 20 ppm (112 mg/m ³) ⑤ (kann über die Haut aufgenommen werden)

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 21 Feb 2022

Print date: 23 Feb 2022

Version: 2.8



Page 5/9

Muster-GeSi-Reiniger Orange, Konzentrat

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

No data available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

See section 7. No additional measures necessary.

8.2.2. Personal protection equipment

Eye/face protection:

Eye glasses with side protection EN 166

Skin protection:

Tested protective gloves must be worn EN ISO 374 Suitable material: NBR (Nitrile rubber) Breakthrough time: 25min. Breakthrough times and swelling properties of the material must be taken into consideration.

Respiratory protection:

Filtering device with filter or ventilator filtering device of type: AX

8.2.3. Environmental exposure controls

Discharge into the environment must be avoided.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Colour: orange

Odour: characteristic

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	8.5		
Melting point	<i>not determined</i>		
Freezing point	<i>not determined</i>		
Initial boiling point and boiling range	175 – 200 °C		
Decomposition temperature	<i>not determined</i>		
Flash point	52 °C		
Evaporation rate	<i>not determined</i>		
Auto-ignition temperature	> 200 °C		
Upper/lower flammability or explosive limits	<i>not determined</i>		
Vapour pressure	<i>not determined</i>		
Vapour density	<i>not determined</i>		
Density	> 1 kg/L	20 °C	
Relative density	<i>not determined</i>		
Bulk density	<i>not determined</i>		
Water solubility	completely miscible		
Partition coefficient: n-octanol/water	<i>not determined</i>		
Dynamic viscosity	<i>not determined</i>		
Kinematic viscosity	1.1 mm ² /s	40 °C	

particle characteristics:

Not relevant. Liquid.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 21 Feb 2022

Print date: 23 Feb 2022

Version: 2.8



Page 6/9

Muster-GeSi-Reiniger Orange, Konzentrat

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Flammable liquids:

Flammable Liquids, Category 3. Calculated flash point.

9.2.2. Other safety characteristics

Parameter	Value	① Method
		② Remark
Temperature Class	T 3	
Explosion group	IIB	

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable liquid and vapour.

10.2. Chemical stability

No data available

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

Gases/vapours, toxic

SECTION 11: Toxicological information

* 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Orange, sweet, ext. CAS No.: 8028-48-6 **EC No.:** 232-433-8

LD₅₀ oral: 4,400 mg/kg (Ratte) OECD

Detergent CAS No.: 26183-52-8 **EC No.:** 500-046-6

LD₅₀ oral: 18,000 mg/kg (Rat)

LD₅₀ dermal: 10,029 mg/kg (Albino rabbit)

Acute oral toxicity:

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

Acute dermal toxicity:

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

Acute inhalation toxicity:

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

Skin corrosion/irritation:

Causes skin irritation. Repeated exposure may cause skin dryness or cracking.

Serious eye damage/irritation:

Causes serious eye damage.

Respiratory or skin sensitisation:

May cause an allergic skin reaction.

Germ cell mutagenicity:

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

Carcinogenicity:

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

Reproductive toxicity:

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 21 Feb 2022

Print date: 23 Feb 2022

Version: 2.8



Page 7/9

Muster-GeSi-Reiniger Orange, Konzentrat

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:

May be fatal if swallowed and enters airways.

Additional information:

No data available

11.2. Information on other hazards

Endocrine disrupting properties:

None

SECTION 12: Ecological information

12.1. Toxicity

Detergent CAS No.: 26183-52-8 **EC No.:** 500-046-6

LC₅₀: 0.25 - 0.3 mg/L 2 d (Algae/water plant)

LC₅₀: 0.25 - 0.3 mg/L

Aquatic toxicity:

Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

Detergent CAS No.: 26183-52-8 **EC No.:** 500-046-6

Biodegradation: Yes, rapidly

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

Detergent CAS No.: 26183-52-8 **EC No.:** 500-046-6

Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6. Endocrine disrupting properties

None

12.7. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of waste according to applicable legislation.

Waste treatment options

Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package:

Completely emptied packages can be recycled.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)
14.1. UN number or ID number		
UN 2319	UN 2319	UN 2319

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 21 Feb 2022







Print date: 23 Feb 2022

Version: 2.8



Page 8/9

Muster-GeSi-Reiniger Orange, Konzentrat

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)
14.2. UN proper shipping name		
TERPENE HYDROCARBONS, N.O.S. (Orange, sweet, ext.)	TERPENE HYDROCARBONS, N.O.S. (Orange, sweet, ext.)	TERPENE HYDROCARBONS, N.O.S. (Orange, sweet, ext.)
14.3. Transport hazard class(es)		
 3	 3	 3
14.4. Packing group		
III	III	III
14.5. Environmental hazards		
		 MARINE POLLUTANT
14.6. Special precautions for user		
Limited quantity (LQ): 5 L Excepted Quantities (EQ): E1 Hazard identification number (Kemler No.): 30 Classification code: F1 Tunnel restriction code: (D/E)	Limited quantity (LQ): 5 L Excepted Quantities (EQ): E1 Classification code: F1	Special provisions: - Limited quantity (LQ): 5 L Excepted Quantities (EQ): E1 EmS-No.: F-E, S-D

14.7. Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Other regulations (EU):

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive], Hazard categories:

- P5a Flammable Liquids, Category 1 or 2
- P5b Flammable liquids
- P5c Flammable liquids of Categories 2 or 3, not covered by P5a and P5b
- E2 Hazardous to the Aquatic Environment in Category Chronic 2

15.1.2. National regulations

[DE] National regulations

Störfallverordnung

for substances contained in the product:

Hazard categories:

- P5a Flammable Liquids, Category 1 or 2
- P5b Flammable liquids
- P5c Flammable liquids of Categories 2 or 3, not covered by P5a and P5b
- E2 Hazardous to the Aquatic Environment in Category Chronic 2

Water hazard class

WGK:

3 - stark wassergefährdend

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 21 Feb 2022

Print date: 23 Feb 2022

Version: 2.8



Page 9/9

Muster-GeSi-Reiniger Orange, Konzentrat

15.2. Chemical Safety Assessment

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

SECTION 16: Other information

16.1. Indication of changes

1.3.	Details of the supplier of the safety data sheet
11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008

16.2. Abbreviations and acronyms

No data available

16.3. Key literature references and sources for data

No data available

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
flammable liquids (<i>Flam. Liq. 3</i>)	H226: Flammable liquid and vapour.	On basis of test data.
Aspiration hazard (<i>Asp. Tox. 1</i>)	H304: May be fatal if swallowed and enters airways.	Calculation method.
Skin corrosion/irritation (<i>Skin Irrit. 2</i>)	H315: Causes skin irritation.	Calculation method.
Respiratory or skin sensitisation (<i>Skin Sens. 1</i>)	H317: May cause an allergic skin reaction.	Calculation method.
Serious eye damage/eye irritation (<i>Eye Dam. 1</i>)	H318: Causes serious eye damage.	Calculation method.
Hazardous to the aquatic environment (<i>Aquatic Chronic 2</i>)	H411: Toxic to aquatic life with long lasting effects.	Calculation method.

16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H411	Toxic to aquatic life with long lasting effects.

16.6. Training advice

No data available

16.7. Additional information

No data available

* Data changed compared with the previous version