

Safety data sheet

Draft

Page: 1/15

BASF Safety data sheet according to UN GHS 4th rev.

Date / Revised: 11.10.2020

Version: 0.0

Product: **SIEGE GR**

(ID no. 1060484/SDS_CPA_00/EN)

Date of print 13.10.2022

1. Identification

Product identifier

SIEGE GR

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

Recommended use: insecticide, crop protection product

Details of the supplier of the safety data sheet

Company:

BASF SE

67056 Ludwigshafen

GERMANY

Telephone: +49 621 60-0

Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

2. Hazards Identification

Classification of the substance or mixture

According to UN GHS criteria

Repr. 1B (fertility)

Aquatic Acute 1

Aquatic Chronic 1

For the classifications not written out in full in this section the full text can be found in section 16.

Safety data sheet according to UN GHS 4th rev.

Date / Revised: 11.10.2020

Version: 0.0

Product: **SIEGE GR**

(ID no. 1060484/SDS_CPA_00/EN)

Date of print 13.10.2022

Label elements

Globally Harmonized System (GHS)

Pictogram:



Signal Word:

Danger

Hazard Statement:

H360	May damage fertility.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary Statement:

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.

Precautionary Statements (Prevention):

P280	Wear protective gloves, protective clothing and eye protection or face protection.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.

Precautionary Statements (Response):

P308 + P313	IF exposed or concerned: Get medical attention.
P391	Collect spillage.

Precautionary Statements (Storage):

P405	Store locked up.
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Precautionary Statements (Disposal):

P501	Dispose of contents and container to hazardous or special waste collection point.
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Labeling of special preparations (GHS):

May produce an allergic reaction. Contains: 2-tert-Butylhydroquinone

According to UN GHS criteria

Hazard determining component(s) for labelling: 5,5-dimethyl-perhydro-pyrimidin-2-one α -(4-trifluoromethylstyryl)- α -(4-trifluoromethyl)cinnamylidenehydrazone

Safety data sheet according to UN GHS 4th rev.

Date / Revised: 11.10.2020

Version: 0.0

Product: **SIEGE GR**

(ID no. 1060484/SDS_CPA_00/EN)

Date of print 13.10.2022

Other hazards

According to UN GHS criteria

See section 12 - Results of PBT and vPvB assessment.

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

3. Composition/Information on Ingredients

Substances

Not applicable

Mixtures

Chemical nature

insecticide, Bait

Hazardous ingredients (GHS)

According to UN GHS criteria

5,5-dimethyl-perhydro-pyrimidin-2-one α -(4-trifluoromethylstyryl)- α -(4-trifluoromethyl)cinnamylidenehydrazone

Content (W/W): 0,73 %

CAS Number: 67485-29-4

EC-Number: 405-090-9

INDEX-Number: 613-181-00-1

Eye Dam./Irrit. 2A

Acute Tox. 4 (oral)

Acute Tox. 4 (Inhalation - dust)

Repr. 1B (fertility)

STOT RE 1

Aquatic Acute 1

Aquatic Chronic 1

M-factor chronic: 1000

H319, H360, H372, H302 + H332, H400, H410

2-tert-Butylhydroquinone

Safety data sheet according to UN GHS 4th rev.

Date / Revised: 11.10.2020

Version: 0.0

Product: **SIEGE GR**

(ID no. 1060484/SDS_CPA_00/EN)

Date of print 13.10.2022

Content (W/W): < 1 %
CAS Number: 1948-33-0
EC-Number: 217-752-2

Acute Tox. 4 (oral)
Acute Tox. 4 (dermal)
Skin Corr./Irrit. 2
Eye Dam./Irrit. 2A
Skin Sens. 1
Aquatic Acute 1
Aquatic Chronic 1
Muta. 2
M-factor acute: 1
M-factor chronic: 1
H319, H315, H317, H341, H302 + H312, H400,
H410

Soybean oil

Content (W/W): < 20 %
CAS Number: 8001-22-7
EC-Number: 232-274-4

Oleic acid

Content (W/W): < 5 %
CAS Number: 112-80-1
EC-Number: 204-007-1

For the classifications not written out in full in this section the full text can be found in section 16.

4. First-Aid Measures

Description of first aid measures

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:

Immediately wash thoroughly with soap and water, seek medical attention.

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

Safety data sheet according to UN GHS 4th rev.

Date / Revised: 11.10.2020

Version: 0.0

Product: **SIEGE GR**

(ID no. 1060484/SDS_CPA_00/EN)

Date of print 13.10.2022

Most important symptoms and effects, both acute and delayed

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and / or effects are not known so far

Indication of any immediate medical attention and special treatment needed

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:
dry powder, foam, water spray

Unsuitable extinguishing media for safety reasons:
carbon dioxide, water jet

Special hazards arising from the substance or mixture

Carbon monoxide, Hydrogen fluoride, Carbon dioxide, nitrogen oxides, halogenated compounds
The substances/groups of substances mentioned can be released in case of fire.

Advice for fire-fighters

Special protective equipment:
Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:

In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Use personal protective clothing. Avoid contact with the skin, eyes and clothing.

Environmental precautions

Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

Methods and material for containment and cleaning up

For small amounts: Contain with dust binding material and dispose of.

For large amounts: Sweep/shovel up.

Safety data sheet according to UN GHS 4th rev.

Date / Revised: 11.10.2020

Version: 0.0

Product: **SIEGE GR**

(ID no. 1060484/SDS_CPA_00/EN)

Date of print 13.10.2022

Avoid raising dust. Collect waste in suitable containers, which can be labeled and sealed. Dispose of absorbed material in accordance with regulations. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Wear suitable protective equipment.

7. Handling and Storage

Precautions for safe handling

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift.

Protection against fire and explosion:

No special precautions necessary. The substance/product is non-combustible. Product is not explosive.

Conditions for safe storage, including any incompatibilities

Segregate from foods and animal feeds.

Further information on storage conditions: Protect against moisture. Keep away from heat. Protect from direct sunlight.

Storage stability:

Storage duration: 24 Months

Keep container dry.

The stated storage temperature should be noted.

Protect from temperatures above: 40 °C

Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

8. Exposure Controls/Personal Protection

Control parameters

Components with occupational exposure limits

112-80-1: Oleic acid

8001-22-7: Soybean oil

Exposure controls

Personal protective equipment

Safety data sheet according to UN GHS 4th rev.

Date / Revised: 11.10.2020

Version: 0.0

Product: **SIEGE GR**

(ID no. 1060484/SDS_CPA_00/EN)

Date of print 13.10.2022

Respiratory protection:

Suitable respiratory protection for lower concentrations or short-term effect: Particle filter with high efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P3 or FFP3).

Hand protection:

Suitable chemical resistant safety gloves (EN ISO 374-1) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc.

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures

The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Wearing of closed work clothing is recommended. Keep away from food, drink and animal feeding stuffs. Store work clothing separately.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Form:	solid
Colour:	tan
Odour:	mild, of vegetable oils
Odour threshold:	Not determined due to potential health hazard by inhalation.
pH value:	approx. 6 - 8 (20 °C)
Melting point:	> 55 °C
Boiling point:	The product has not been tested.
Flash point:	not applicable, the product is a solid
Evaporation rate:	not applicable
Flammability:	Based on the structure or composition there is no indication of flammability

Safety data sheet according to UN GHS 4th rev.

Date / Revised: 11.10.2020

Version: 0.0

Product: **SIEGE GR**

(ID no. 1060484/SDS_CPA_00/EN)

Date of print 13.10.2022

Lower explosion limit:

As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.

Upper explosion limit:

As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.

Vapour pressure:

not applicable

Relative vapour density (air):

not applicable

Solubility in water:

dispersible

Partitioning coefficient n-octanol/water (log Kow):

not applicable

Self ignition:

Temperature: approx. 404 °C
Information based on the main component/s.

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

Viscosity, dynamic:

not applicable, the product is a solid

Explosion hazard:

not explosive

Fire promoting properties: Based on its structural properties the product is not classified as oxidizing.

Other information

Self heating ability:

It is not a substance capable of spontaneous heating.

Bulk density:

approx. 240 - 384 kg/m³

10. Stability and Reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Safety data sheet according to UN GHS 4th rev.

Date / Revised: 11.10.2020

Version: 0.0

Product: **SIEGE GR**

(ID no. 1060484/SDS_CPA_00/EN)

Date of print 13.10.2022

Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated.

Conditions to avoid

See SDS section 7 - Handling and storage.

Incompatible materials

Substances to avoid:

strong bases, strong acids, strong oxidizing agents

Hazardous decomposition products

Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

11. Toxicological Information

Information on toxicological effects

Acute toxicity

Assessment of acute toxicity:

Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation. Virtually nontoxic after a single ingestion.

Experimental/calculated data:

LD50 rat (oral): > 5.000 mg/kg

LC50 rat (by inhalation): > 5 mg/l 4 h

LD50 rat (dermal): > 5.000 mg/kg

Irritation

Assessment of irritating effects:

Not irritating to the skin. Not irritating to the eyes.

Experimental/calculated data:

Skin corrosion/irritation rabbit: non-irritant

Serious eye damage/irritation rabbit: non-irritant

Respiratory/Skin sensitization

Assessment of sensitization:

There is no evidence of a skin-sensitizing potential.

Safety data sheet according to UN GHS 4th rev.

Date / Revised: 11.10.2020

Version: 0.0

Product: **SIEGE GR**

(ID no. 1060484/SDS_CPA_00/EN)

Date of print 13.10.2022

Experimental/calculated data:

Skin sensitization test guinea pig: Non-sensitizing.

Germ cell mutagenicity

Assessment of mutagenicity:

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: 2-tert-Butylhydroquinone

Assessment of mutagenicity:

Mutagenic properties can not be excluded on the basis of experimental data.

Carcinogenicity

Assessment of carcinogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. The results of various animal studies gave no indication of a carcinogenic effect.

Reproductive toxicity

Assessment of reproduction toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: 5,5-dimethyl-perhydro-pyrimidin-2-one α -(4-trifluoromethylstyryl)- α -(4-trifluoromethyl)cinnamylidenehydrazone

Assessment of reproduction toxicity:

Causes impairment of fertility in laboratory animals.

Developmental toxicity

Assessment of teratogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

Specific target organ toxicity (single exposure)

Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Remarks: The product has not been tested. The statement has been derived from the properties of the individual components.

Safety data sheet according to UN GHS 4th rev.

Date / Revised: 11.10.2020

Version: 0.0

Product: **SIEGE GR**

(ID no. 1060484/SDS_CPA_00/EN)

Date of print 13.10.2022

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: 5,5-dimethyl-perhydro-pyrimidin-2-one α -(4-trifluoromethylstyryl)- α -(4-trifluoromethyl)cinnamylidenehydrazone

Assessment of repeated dose toxicity:

Repeated oral exposure to small quantities may affect certain organs.

Aspiration hazard

No aspiration hazard expected.

The product has not been tested. The statement has been derived from the properties of the individual components.

Other relevant toxicity information

Misuse can be harmful to health.

12. Ecological Information

Toxicity

Assessment of aquatic toxicity:

Very toxic to aquatic life with long lasting effects.

Toxicity to fish:

LC50 (96 h) 4,08 mg/l, Brachydanio rerio

Aquatic invertebrates:

EC50 (48 h) 0,29 mg/l, Daphnia magna

Aquatic plants:

EC50 (96 h) 0,3 mg/l, Scenedesmus obliquus

Information on: 5,5-dimethyl-perhydro-pyrimidin-2-one α -(4-trifluoromethylstyryl)- α -(4-trifluoromethyl)cinnamylidenehydrazone

Chronic toxicity to aquatic invertebrates:

No observed effect concentration (21 d) 0,000088 mg/l, Daphnia magna

Persistence and degradability

Assessment biodegradation and elimination (H₂O):

Safety data sheet according to UN GHS 4th rev.

Date / Revised: 11.10.2020

Product: **SIEGE GR**

(ID no. 1060484/SDS_CPA_00/EN)

Version: 0.0

Date of print 13.10.2022

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: 5,5-dimethyl-perhydro-pyrimidin-2-one α -(4-trifluoromethylstyryl)- α -(4-trifluoromethyl)cinnamylidenehydrazone

Assessment biodegradation and elimination (H₂O):

Not readily biodegradable (by OECD criteria).

Bioaccumulative potential

Assessment bioaccumulation potential:

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: 5,5-dimethyl-perhydro-pyrimidin-2-one α -(4-trifluoromethylstyryl)- α -(4-trifluoromethyl)cinnamylidenehydrazone

Bioaccumulation potential:

*Bioconcentration factor: 95, *Gambusia affinis* (measured)*

Does not accumulate in organisms.

Mobility in soil

Assessment transport between environmental compartments:

Adsorption in soil: The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: 5,5-dimethyl-perhydro-pyrimidin-2-one α -(4-trifluoromethylstyryl)- α -(4-trifluoromethyl)cinnamylidenehydrazone

Assessment transport between environmental compartments:

Adsorption in soil: Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

Results of PBT and vPvB assessment

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

Other adverse effects

The product does not contain substances that are listed in the Montreal Protocol on substances that deplete the ozone layer.

Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control.

Safety data sheet according to UN GHS 4th rev.

Date / Revised: 11.10.2020

Version: 0.0

Product: **SIEGE GR**

(ID no. 1060484/SDS_CPA_00/EN)

Date of print 13.10.2022

13. Disposal Considerations

Waste treatment methods

Must be sent to a suitable incineration plant, observing local regulations.

Contaminated packaging:

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

14. Transport Information

Land transport

ADR

UN number or ID number: UN3077
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(contains HYDRAMETHYLNON)
Transport hazard class(es): 9, EHSM
Packing group: III
Environmental hazards: yes
Special precautions for user: None known

RID

UN number or ID number: UN3077
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(contains HYDRAMETHYLNON)
Transport hazard class(es): 9, EHSM
Packing group: III
Environmental hazards: yes
Special precautions for user: None known

Inland waterway transport

ADN

UN number or ID number: UN3077
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(contains HYDRAMETHYLNON)
Transport hazard class(es): 9, EHSM

Safety data sheet according to UN GHS 4th rev.

Date / Revised: 11.10.2020

Version: 0.0

Product: **SIEGE GR**

(ID no. 1060484/SDS_CPA_00/EN)

Date of print 13.10.2022

Packing group: III
Environmental hazards: yes
Special precautions for user: None known

Transport in inland waterway vessel

Not evaluated

Sea transport

IMDG

UN number or ID number: UN 3077
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(contains HYDRAMETHYLNON)
Transport hazard class(es): 9, EHSM
Packing group: III
Environmental hazards: yes
Marine pollutant: YES
Special precautions for user: None known

Air transport

IATA/ICAO

UN number or ID number: UN 3077
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(contains HYDRAMETHYLNON)
Transport hazard class(es): 9, EHSM
Packing group: III
Environmental hazards: yes
Special precautions for user: None known

Maritime transport in bulk according to IMO instruments

Maritime transport in bulk is not intended.

Further information

Product may be shipped as non-hazardous in suitable packages containing a net quantity of 5 kg or less under the provisions of various regulatory agencies: ADR, RID, ADN: Special Provision 375; IMDG: 2:10.2.7; IATA: A197; TDS: Special Provision 99(2); 49CFR: §171.4 (c) (2) and also the Special Provision 375 in Appendix B which is regulated in China "Regulations Concerning Road

Safety data sheet according to UN GHS 4th rev.

Date / Revised: 11.10.2020

Version: 0.0

Product: **SIEGE GR**

(ID no. 1060484/SDS_CPA_00/EN)

Date of print 13.10.2022

Transportation of Dangerous Goods Part 3: Index of dangerous goods name and transportation requirements" (JT/T 617.3)

15. Regulatory Information

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

To avoid risks to man and the environment, comply with the instructions for use.

16. Other Information

Full text of classifications, hazard symbols and hazard statements, if mentioned in section 2 or 3:

Repr.	Reproductive toxicity
Aquatic Acute	Hazardous to the aquatic environment - acute
Aquatic Chronic	Hazardous to the aquatic environment - chronic
Eye Dam./Irrit.	Serious eye damage/eye irritation
Acute Tox.	Acute toxicity
STOT RE	Specific target organ toxicity — repeated exposure
Skin Corr./Irrit.	Skin corrosion/irritation
Skin Sens.	Skin sensitization
Muta.	Germ cell mutagenicity
H319	Causes serious eye irritation.
H360	May damage fertility.
H372	Causes damage to organs through prolonged or repeated exposure.
H302 + H332	Harmful if swallowed or if inhaled
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H341	Suspected of causing genetic defects.
H302 + H312	Harmful if swallowed or in contact with skin

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

Vertical lines in the left hand margin indicate an amendment from the previous version.