

SAFETY DATA SHEET

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

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

1.1. Product identifier

Trade name/designation:

greenbite apple

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

No data available

1.3. Details of the supplier of the safety data sheet

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

detax GmbH

Carl-Zeiss-Str. 4

76256 Ettlingen

Germany

Telephone: +49 7243 510 0

E-mail: post@detax.com

Website: www.detax.com

1.4. Emergency telephone number

24h: +1-800-424-9300 (CHEMTREC worldwide)

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
Hazardous to the aquatic environment (Aquatic Chronic 3)	H412: Harmful to aquatic life with long lasting effects.	Calculation method.

2.2. Label elements

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

Hazard components for labelling:

cristobalite

Hazard statements for environmental hazards	
H412	Harmful to aquatic life with long lasting effects.

Supplemental hazard information: none

Precautionary statements Prevention	
P273	Avoid release to the environment.

Special rules for supplemental label elements for certain mixtures:

98,5 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (oral).

99,4 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (dermal).

99,4 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (inhalative).

73,2 % percent of the mixture consists of components of unknown hazards to the aquatic environment.

2.3. Other hazards

No data available

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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.: 14464-46-1 EC No.: 238-455-4	crystalite STOT RE 1 (H372)  Danger	40 - ≤ 75 weight-%
CAS No.: 556-67-2 EC No.: 209-136-7 Index No.: 014-018-00-1 REACH No.: 01-2119529238-36	octamethylcyclotetrasiloxane <i>Candidate List of Substances of Very High Concern for Authorisation!</i> Aquatic Chronic 1 (H410), Flam. Liq. 3 (H226), Repr. 2 (H361F***)  Warning M-factor (chronic): 10 Acute Toxicity Estimate ATE (oral) > 4,800 mg/kg ATE (dermal) > 4,800 mg/kg ATE (inhalation, vapour) > 2,375 mg/L	0 - ≤ 0.1 weight-%
CAS No.: 123-92-2 EC No.: 204-662-3 Index No.: 607-130-00-2 REACH No.: 01-2119548408-32-XXXX	3-Methylbutylacetat Flam. Liq. 3 (H226)  Warning EUH066	0 - ≤ 0.1 weight-%
CAS No.: 123-51-3 EC No.: 204-633-5	2(oder 3)-Methylbutanol Acute Tox. 4 (H332), Eye Dam. 1 (H318), Flam. Liq. 3 (H226), STOT SE 3 (H335), Skin Irrit. 2 (H315)  Danger Acute Toxicity Estimate ATE (inhalation, vapour) 11 mg/L ATE (inhalation, dust/mist) 1.5 mg/L	0 - ≤ 0.1 weight-%

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

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.

Following inhalation:

Provide fresh air.

Following ingestion:

Rinse mouth. Let 1 glass of water be drunken in little sips (dilution effect). Get medical advice/attention if you feel unwell.

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

No data 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:

Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media:

Full water jet

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5.2. Special hazards arising from the substance or mixture

The product itself does not burn.

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.

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).

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:

No special measures are necessary.

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.

Storage class (TRGS 510, Germany): 12 - non-combustible liquids that cannot be assigned to any of the above storage classes

7.3. Specific end use(s)

No data available

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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
BOELV (EU) from 16 Jan 2018	crystalite CAS No.: 14464-46-1 EC No.: 238-455-4	① 0.1 mg/m ³ ⑤ (respirable crystalline silica)
TRGS 900 (DE)	3-Methylbutylacetat CAS No.: 123-92-2 EC No.: 204-662-3	① 50 ppm (270 mg/m ³) ② 50 ppm (270 mg/m ³) ⑤ DFG, EU
IOELV (EU)	3-Methylbutylacetat CAS No.: 123-92-2 EC No.: 204-662-3	① 50 ppm (270 mg/m ³) ② 100 ppm (540 mg/m ³)
IOELV (EU) from 20 Nov 2019	2(oder 3)-Methylbutanol CAS No.: 123-51-3 EC No.: 204-633-5	① 5 ppm (18 mg/m ³) ② 10 ppm (37 mg/m ³)
TRGS 900 (DE) from 20 Apr 2023	2(oder 3)-Methylbutanol CAS No.: 123-51-3 EC No.: 204-633-5	① 20 ppm (73 mg/m ³) ② 40 ppm (146 mg/m ³) ⑤ DFG, Y, EU
DFG (DE) from 1 Jul 2024	Titandioxid; [in Pulverform mit mindestens 1 % Partikel mit aerodynamischem Durchmesser ≤ 10 µm] CAS No.: 13463-67-7 EC No.: 236-675-5	① 0.3 mg/m ³ ② 2.4 mg/m ³ ⑤ (alveolengängige Fraktion)
DFG (DE) from 1 Jul 2024	Silicon dioxide CAS No.: 112945-52-5 EC No.: 231-545-4	① 0.02 mg/m ³ ② 0.16 mg/m ³ ⑤ (alveolengängige Fraktion)
TRGS 900 (DE)	Silicon dioxide CAS No.: 112945-52-5 EC No.: 231-545-4	① 4 mg/m ³ ⑤ (eintatembare Fraktion) DFG, 2, Y
TRGS 900 (DE) from 17 Jun 2024	Silicon dioxide CAS No.: 112945-52-5 EC No.: 231-545-4	① 1 mg/m ³ ② 8 mg/m ³ ⑤ (eintatembare Fraktion) AGS, 2, Y
DFG (DE) from 1 Jul 2022	Silicon dioxide CAS No.: 112945-52-5 EC No.: 231-545-4	① 0.02 mg/m ³ ② 1.6 mg/m ³ ⑤ (alveolengängige Fraktion)
TRGS 900 (DE) from 29 Mar 2019	hexan-1-ol CAS No.: 111-27-3 EC No.: 203-852-3	① 25 ppm (105 mg/m ³) ② 25 ppm (105 mg/m ³) ⑤ (Aerosol und Dampf) AGS, Y, 11
TRGS 900 (DE)	2-methylpropan-1-ol CAS No.: 78-83-1 EC No.: 201-148-0	① 100 ppm (310 mg/m ³) ② 100 ppm (310 mg/m ³) ⑤ DFG, Y
TRGS 900 (DE) from 1 Feb 2013	(R)-p-mentha-1,8-diene CAS No.: 5989-27-5 EC No.: 227-813-5	① 5 ppm (28 mg/m ³) ② 20 ppm (112 mg/m ³) ⑤ (kann über die Haut aufgenommen werden) DFG, H, Sh, Y

8.1.2. Biological limit values

No data available

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8.1.3. DNEL-/PNEC-values

No data available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No data available

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: Breakthrough time: min In the case of wanting to use the gloves again, clean them before taking off and air them well. Breakthrough times and swelling properties of the material must be taken into consideration.

8.2.3. Environmental exposure controls

No data available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Colour: not determined

Odour: not determined

flammability: No

Safety relevant basis data

Parameter	Value	① Method ② Remark
pH	No data available	
Melting point	No data available	
Freezing point	No data available	
Initial boiling point and boiling range	No data available	
Flash point	not applicable	
Evaporation rate	No data available	
Auto-ignition temperature	not applicable	
Upper/lower flammability or explosive limits	No data available	
Vapour pressure	No data available	
Vapour density	No data available	
Density	No data available	
Bulk density	not applicable	
Water solubility	No data available	
Dynamic viscosity	No data available	
Kinematic viscosity	No data available	

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product itself does not burn.

10.2. Chemical stability

No data available

10.3. Possibility of hazardous reactions

No data available

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10.4. Conditions to avoid

No data available

10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

In case of fire: Gases/vapours, toxic

SECTION 11: Toxicological information

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

octamethylcyclotetrasiloxane CAS No.: 556-67-2 EC No.: 209-136-7

ATE inhalativ Dämpfe: 0.36 mg/L
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LD₅₀ oral: >4,800 mg/kg (Rat) OECD Prüfrichtlinie 401

LD₅₀ dermal: >4,800 mg/kg (Rat)

LC₅₀ Acute inhalation toxicity (vapour): >2,375 mg/L (Rat)
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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:

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

Serious eye damage/irritation:

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

Respiratory or skin sensitisation:

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

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.

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.

Additional information:

No data available

11.2. Information on other hazards

No data available

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SECTION 12: Ecological information

12.1. Toxicity

octamethylcyclotetrasiloxane CAS No.: 556-67-2 EC No.: 209-136-7
LC₅₀ : 0.022 mg/L 4 d (fish, Oncorhynchus mykiss)
EC₅₀ : >0.015 mg/L 2 d (fish, Daphnia magna)
NOEC : 0.0044 mg/L (fish, Oncorhynchus mykiss)
ErC₅₀ : >0.022 mg/L 4 d (Selenastrum capricornutum)
ErC₅₀ : >0.022 mg/L 4 d (fish, Selenastrum capricornutum)
LOEC : 0.015 mg/L 21 d (Daphnia magna)
EC₅₀ : >1,000 mg/L 1 d (Daphnia magna)
LC₅₀ : >0.022 mg/L 4 d (fish, Oncorhynchus mykiss (Rainbow trout))
EC₅₀ : 0.015 mg/L 2 d (crustaceans, Daphnia magna (Big water flea))
NOEC : >0.0015 mg/L 21 d (crustaceans, Daphnia magna (Big water flea))
LC₅₀ : 200 mg/L 4 d (fish, Leuciscus idus (golden orfe))
NOEC : >0.0044 mg/L (Algae/water plant)
ErC₅₀ : >0.022 mg/L 4 d (Selenastrum capricornutum)
3-Methylbutylacetat CAS No.: 123-92-2 EC No.: 204-662-3
LC₅₀ : 11.1 mg/L 4 d (fish, Danio rerio (zebrafish)) OECD Prüfrichtlinie 203
EC₅₀ : 26.3 mg/L 2 d (crustaceans, Daphnia magna (Big water flea)) OECD- Prüfrichtlinie 202

Aquatic toxicity:

Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability

octamethylcyclotetrasiloxane CAS No.: 556-67-2 EC No.: 209-136-7
Biodegradation : Poorly biodegradable.
3-Methylbutylacetat CAS No.: 123-92-2 EC No.: 204-662-3
Biodegradation : Yes, rapidly

12.3. Bioaccumulative potential

octamethylcyclotetrasiloxane CAS No.: 556-67-2 EC No.: 209-136-7
Log K_{ow} : 6.488
3-Methylbutylacetat CAS No.: 123-92-2 EC No.: 204-662-3
Log K_{ow} : 2.7

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

crystalite CAS No.: 14464-46-1 EC No.: 238-455-4
Results of PBT and vPvB assessment : —
octamethylcyclotetrasiloxane CAS No.: 556-67-2 EC No.: 209-136-7
Results of PBT and vPvB assessment : —
3-Methylbutylacetat CAS No.: 123-92-2 EC No.: 204-662-3
Results of PBT and vPvB assessment : —
2(oder 3)-Methylbutanol CAS No.: 123-51-3 EC No.: 204-633-5
Results of PBT and vPvB assessment : —

12.6. Endocrine disrupting properties

No data available

12.7. Other adverse effects

No data available

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV
Directive 2008/98/EC (Waste Framework Directive)

HP 14	Ecotoxic
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Waste treatment options

Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es)			
not relevant	not relevant	not relevant	not relevant
14.4. Packing group			
not relevant	not relevant	not relevant	not relevant
14.5. Environmental hazards			
not relevant	not relevant	not relevant	not relevant
14.6. Special precautions for user			
not relevant	not relevant	not relevant	not relevant

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

No data available

15.1.2. National regulations

 [DE] National regulations

Water hazard class

WGK:

1 - slightly hazardous to water

15.2. Chemical Safety Assessment

No data available

SECTION 16: Other information

16.1. Indication of changes

No data available

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16.2. Abbreviations and acronyms

ACGIH	American Conference of Governmental Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DIN	German Institute for Standardization / German Industrial Standard
DNEL	derived no-effect level
EC ₅₀	Effective Concentration 50%
EN	European Standard
ES	Exposure scenario
EWC	European Waste Catalogue
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Standards Organisation
KG	body weight
LC ₅₀	Lethal (fatal) Concentration 50%
LD ₅₀	Lethal (fatal) Dose 50%
MAK	Maximum concentration in the workplace air (CH)
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety & Health
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Cooperation and Development
OSHA	Occupational Safety & Health Administration
PBT	persistent and bioaccumulative and toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations

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
Hazardous to the aquatic environment (<i>Aquatic Chronic 3</i>)	H412: Harmful to aquatic life with long lasting effects.	Calculation method.

16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	
H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H361f	Suspected of damaging fertility.
H372	Causes damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.

Supplemental hazard information	
EUH066	Repeated exposure may cause skin dryness or cracking.

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16.6. Training advice

No data available

16.7. Additional information

No data available