

material safety data sheet

Birch (*Betula pendula*) extract, Freeze dried

msds-40.03.85 (1).docx

version: 1

Page: 1/8

Date: 07-feb-23

supersedes: version N.A.

1. Identification of the substance & the company

Chemical name : Birch (*Betula pendula*)
Chemical formula : N.A. biological material
Synonym : N.A.
CAS number : N.A.
EINECS number : N.A.
Product code (supplier) : 40.03.85
Chemical family : Proteins
Molecular weight : N.A.
Type of product and use : Allergen

Company identification : Citeq Biologics
Address and telephone : Admiraal de Ruyterlaan 5
9726 GN Groningen
The Netherlands
Postbus 41053
9701 CB Groningen
Tel : +31.50 313 7464
e-mail: info@citeq.com

2. Hazards identification

NFPA ratings (scale 0-4) : health=3 fire=0 reactivity=0
Important hazards : May be irritating if inhaled to people who are allergic.
Avoid inhalation. Avoid contact with eyes, skin and clothing. Keep container tightly closed. Wash thoroughly after handling. Use only with adequate ventilation.
Use dust mask P2.

Adverse human health effects

Inhalation:

Short term effects : No information is available on significant adverse effects.

Long term effects : May cause wheezing and asthma.

Skin contact:

Short term effects : May cause rash.

Long term effects : No information is available.

Eye contact:

Short term effects : May cause tearing.

Long term effects : May cause redness and swelling of the eyes.

Ingestion:

Short term effects : No information is available.

Long term effects : No information is available.

Additional data : May cause allergy.

Environmental hazards : No information is available.

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Globally Harmonised System of Classification and Labelling of Chemicals (GHS)

Sensitisation - Respiratory

Hazard category

1, 1A, 1B

Signal word

Danger

Hazard statement

H334 **May cause allergy or asthma symptoms or breathing difficulties if inhaled**

Symbol

Health hazard



Precautionary statements

Prevention	Response	Storage	Disposal
<p>P261 Avoid breathing dust/fume/gas/mist/ vapours/spray.</p> <p>P285 In case of inadequate ventilation wear respiratory protection.</p>	<p>P304 + P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.</p> <p>P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician</p>		<p>P501 Dispose of contents/ container to an approved waste disposal plant.</p>

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Sensitisation - Skin

Symbol
Exclamation mark
!

Hazard category

1, 1A, 1B

Signal word

Danger

Hazard statement

H317 May cause an allergic skin reaction

Precautionary statements

Prevention	Response	Storage	Disposal
<p>P261 Avoid breathing dust/fume/gas/mist/ vapours/spray.</p> <p>P272 Contaminated work clothing should not be allowed out of the workplace.</p> <p>P280 Wear protective gloves.</p>	<p>P302 + P352 IF ON SKIN: Wash with plenty of soap and water.</p> <p>P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.</p> <p>P321 Specific treatment (see 4. First-aid measures)</p> <p>P363 Wash contaminated clothing before reuse.</p>		<p>P501 Dispose of contents/ container to an approved waste disposal plant.</p>

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3. Composition / information on ingredients

Substance/preparation : Substance
Ingredients : Pollen allergens

H-statements: H332/ H312/H302

- Harmful by inhalation and if swallowed
- Harmful in contact with skin
- Harmful in contact with eyes

Other hazardous component(s) : none

4. First-aid measures

General : Remove contaminated clothing.

Inhalation : FIRST AID- Remove from exposure area to fresh air immediately. Perform artificial respiration if necessary. Keep person warm and at rest. Treat symptomatically and supportively. Get medical attention immediately.

Skin contact : FIRST AID- Remove contaminated clothing and shoes immediately. Wash with soap or mild detergent and large amounts of water until no evidence of mixture remains (at least 15-20 minutes). Get medical attention immediately.

Eye Contact : FIRST AID- Wash eyes immediately with large amounts of water or normal saline, occasionally lifting upper and lower lids, until no evidence of mixture remains (at least 15-20 minutes). Get medical attention immediately.

Ingestion : FIRST AID- If vomiting does not completely empty the stomach, proceed with the following: Induce emesis with syrup of ipecac and water. When vomiting occurs, keep head lower than hips to help prevent aspiration. Do not give anything by mouth or induce vomiting if person is unconscious or otherwise unable to swallow. Treat symptomatically and supportively. Get medical attention immediately. Qualified medical personnel should consider performing gastric lavage (Dreisbach & Robertson; Handbook of Poisoning; 12th Ed.).

NOTE TO PHYSICIAN

Antidote : No specific antidote. Treat symptomatically and supportively.

Protection of first-aiders : In case of insufficient ventilation, wear suitable respiratory equipment.

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5. Fire- fighting measures

General	: Negligible fire hazard when exposed to heat or flame.
Flash point	: No data available.
Auto-ignition temperature	: No data available.
Extinguishing media	: Dry chemical, carbon dioxide, water spray or regular foam. For larger fires, use water spray, fog or regular foam.
Fire fighting procedure	: Move container from fire area if you can do it without risk. Extinguish using agent suitable for type of surrounding fire. Avoid breathing vapours and dusts. Keep upwind.
Usual fire and explosion hazards	: None
Protection of fire-fighters	: In case of insufficient ventilation, wear suitable respiratory equipment.
Hazardous combustion products	: Thermal decomposition products may include fumes of organic substances.

6. Accidental release measures

Personal precautions	: Keep away from sources of ignition. No smoking. : In case of insufficient ventilation, wear suitable respiratory equipment.
Environmental precautions	: Avoid generation of dust. Ventilate area.
After spillage/leakage	: Do not touch spilled material. Stop leak if you can do it without risk. For small spills, use paper towels or chemical wicks to wipe up and pick-up spilled materials and place into containers for later disposal. For small dry spills, place the material into clean, dry container with a clean shovel and cover. Move containers from spill area.

7. Handling and storage

Handling	: Wear protective eyewear, clothing, gloves and other gear to avoid contact.
Storage	: Keep container tightly closed. Store protected from light. Storage temp.: recommended temperature -20°C.
Application	: Allergens

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8. Exposure controls/personal protection

Exposure limits : Not known.

Ventilation requirements : Provide local exhaust ventilation to meet published exposure limits.

Ventilation equipment should be explosion proof if explosive concentrations

Personal protection equipment

Respiratory protection : Dust mask P2.

Gloves : Working gloves.

Eye protection : Employee must wear splash proof or dust resistant safety goggles to prevent eye contact with this substance.

Others : Working clothing. Employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this substance.

Industrial hygiene : Avoid contact.
Safety shower and eye bath should be provided. Do not eat, drink or smoke until after-work showering and changing clothes.

9. Physical and chemical properties

Appearance : powder
Colour : Light yellow
Odour : Not applicable.
Odour range : Not applicable.
pH : Not applicable.
Melting point/range : Not applicable.
Boiling point/range : Not applicable.
Flash point : Not applicable.
Evaporation rate (ether=1) : No data available.
Inflammable : Not applicable.
Inflammable or explosion range : Not applicable.
Vapour pressure : No data available.
Vapour density : No data available.
Relative density (air=1) : No data available.
Solubility : No data available.
Distribution coefficient : No data available.
Spontaneous combustion temp. : Not applicable.
Thermal decomposition : No data available.
Viscosity : Not applicable.
Explosion characteristics : Not applicable.
Oxidation characteristics : Not applicable.

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10. Stability and reactivity

Stability	: Stable at normal temperatures and normal pressures.
Materials to avoid	: Stable at normal temperatures and normal pressures.
Conditions to avoid	: No data available.
Hazardous decomposition products	: No data available.
Hazardous polymerization	: No

11. Toxicological information

Toxicity data

Mouse LD50	: Not applicable.
Rat LD50	: Not applicable.
Human mutagenic data (RTECS) reproductive	: No data known. : No data available. : No data available.
Carcinogen status	: No data available.
Additional data	: None.

Health effects

Inhalation

Acute exposure	: No data available.
Chronic exposure	: No data available.

Skin contact:

Acute exposure	: No data available.
Chronic exposure	: No data available.

Eye contact

Acute exposure	: No data available.
Chronic exposure	: No data available.

Ingestion

Acute exposure	: No data available.
Chronic exposure	: No data available.

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12. Ecological information

Acute aquatic toxicity : No data available.
Degradability : No data available.
Log bioconcentration factor (BCF) : No data available.
Log octanol/water partition coefficient : No data available.

13. Disposal considerations

Waste disposal : In closed containers. Observe all national, state and local environmental regulations when disposing of this material.

14. Transportation information

Not submitted to special transport regulation.

15. Regulatory information

EEC

- symbol(s)

- H-statement(s)

: H332/H312/H302

- Harmful by inhalation and if swallowed

- Harmful in contact with skin

- P-statement(s)

: P233/P403

keep container tightly closed

P305/P351/P313

in case of contact with eyes rinse immediately with plenty of water and seek medical advice.

16. Other information

None