



Birchset CR

Prepared in accordance with Annex II of the REACH Regulation EC 1907/2006,

Regulation (EC) 1272/2008 and Regulation (EC) 453/2010

Revision date: March 2020

Printing Date: July 9, 2020

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

1.1 Product identifier

Substance name: Birchset CR

Synonyms: Birchset CR is a food contact approved cure stabiliser and compression set reduction additive consisting of an activated polymer

Trade name: BIRCHSET CR

REACH Registration number: Not required

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

Uses advise against: There are no uses advised against.

1.3 Details of the supplier of the safety data sheet

Name: Birch Chemicals Limited

Address: Melton Ross Quarries, Barnetby,
North Lincolnshire DN38 6AE

Phone N°: +44(0)1652 686080

Fax N°: +44(0)1652 686081

E-mail of competent person(s) responsible for the SDS: Ldownes@singletonbirch.co.uk

1.4 Emergency telephone number

<u>Region/ Countries</u>	<u>Languages Provided</u>	<u>Emergency Telephone Number</u>	<u>Intended Process</u>
Europe, Middle East and Africa	English	+44 1865 407333	Routes directly to NCEC. This line provides access to an English Language response only.
Americas	English	+1 202 464 2554	A local number for use in Americas. Routes directly to NCEC. This line provides access to an English Language response only.
Asia-Pacific	English	+65 3165 2217	A local number for Singapore. Routes directly to NCEC. This line provides access to an English Language response only.



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2. HAZARDS IDENTIFICATION

2.1 Classification of the substance

2.1.1 Classification according to Regulation (EC) 1272/2008

The substance does not meet the criteria for classification.

2.2 Label elements

2.2.1 Labelling according to Regulation (EC) 1272/2008

Not required

2.3 Other hazards

The substance does not meet the criteria for PBT or vPvB substance.
No other hazards identified.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable. The product is not a substance.

3.2 Mixtures

Chemical characterisation

Chlorine-containing sulphur cross-linked fat oils with inorganic stabiliser addition; Product containing < 4% amorphous silicic acid (CAS 7631-86-9).

Impurities

No impurities relevant for classification and labelling.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

No known delayed effects. Consult a physician for all exposures except for minor instances.

Following inhalation

Move source of dust or move person to fresh air. If necessary seek medical advice.

Following skin contact

Wash affected area with water. Remove contaminated clothing. If necessary seek medical advice.

Following eye contact

Rinse eyes immediately with plenty of water and seek medical advice.

Following ingestion

Clean mouth with water and drink plenty of water afterwards. Obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Birchset CR is not toxic via the oral, dermal, or inhalation route. There is no concern for adverse systemic effects.



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4.3 Indication of any immediate medical attention and special treatment needed

Follow the advice given in section 4.1

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

5.1.1 Suitable extinguishing media

Use a dry powder, foam or CO₂ fire extinguisher to extinguish the surrounding fire. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.1.2 Unsuitable extinguishing media

None known.

5.2 Special hazards arising from the substance or mixture

Hydrogen chloride (HCl) and Sulphur dioxide (SO₂) may be released in the event of a fire. Exposure to decomposition products may cause a health hazard.

5.3 Advice for fire fighters

Use breathing apparatus. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Ensure adequate ventilation.

Avoid contact with skin, eyes and clothing – wear suitable protective equipment (see section 8).

6.1.2 For emergency responders

Ensure adequate ventilation.

Keep unprotected persons away.

Avoid contact with skin, eyes and clothing – wear suitable protective equipment (see section 8).

Avoid inhalation of dust – ensure that sufficient ventilation or suitable respiratory protective equipment is used, wear suitable protective equipment (see section 8).

6.2 Environmental precautions

Contain the spillage. Keep the material dry if possible. Cover area if possible to avoid unnecessary dust hazard. Avoid uncontrolled spills to watercourses and drains. Any large spillage into watercourses must be alerted to the Environment Agency or other regulatory body.

6.3 Methods and material for containment and cleaning up

Keep the material dry if possible.

Pick up the product mechanically in a dry way.



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Use vacuum suction unit, or shovel into bags.

6.4 Reference to other sections

For more information on exposure controls/personal protection or disposal considerations, please check section 8 and 13 and the Annex of this safety data sheet.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

7.1.1 Protective measures

Avoid contact with skin and eyes. Wear protective equipment (refer to section 8 of this safety data sheet). Minimize dust generation. Enclose dust sources, use exhaust ventilation (dust collector at handling points). Handling systems should preferably be enclosed. When handling bags usual precautions should be paid to the risks outlined in the Council Directive 90/269/EEC.

7.1.2 Advice on general occupational hygiene

Avoid inhalation or ingestion and contact with skin and eyes. General occupational hygiene measures are required to ensure safe handling of the substance. These measures involve good personal and housekeeping practices (i.e. regular cleaning with suitable cleaning devices), no drinking, eating and smoking at the workplace. Shower and change clothes at end of work shift. Do not wear contaminated clothing at home.

7.2 Conditions for safe storage, including any incompatibilities

The substance should be stored under dry conditions. Any contact with air and moisture should be avoided. Keep out of reach of children.

7.3 Specific end use(s)

Please check the identified uses in table 1 of the Appendix of this SDS.

For more information please see the relevant exposure scenario, available via your supplier/given in the Appendix, and check section 2.1: Control of worker exposure.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Substance name silicon dioxide, chemically prepared

CAS no. 7631-86-9

EC no. 231-545-4

Workplace Exposure Limit (WEL), 8 h TWA: 6 mg/m³ amorphous silica respirable dust

Occupational Exposure Limit (OEL), 8h TWA: 2.4 mg/m³ amorphous silica respirable dust



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8.2 Exposure controls

To control potential exposures, generation of dust should be avoided. Further, appropriate protective equipment is recommended.

8.2.1 Appropriate engineering controls

If user operations generate dust, use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne dust levels below recommended exposure limits.

8.2.2 Individual protection measures, such as personal protective equipment

8.2.2.1 Eye/face protection

For powders, tight fitting goggles with side shields, or wide vision full goggles.

8.2.2.2 Skin protection

The use of protective gloves (nitrile), protective standard working clothes fully covering skin, full length trousers, long sleeved overalls are required to be worn.

8.2.2.3 Respiratory protection

Local ventilation to keep levels below established threshold values is recommended. A suitable particle filter mask is recommended, depending on the expected exposure levels.

8.2.2.4 Thermal hazards

The substance does not represent a thermal hazard, thus special consideration is not required.

8.2.3 Environmental exposure controls

All ventilation systems should be filtered before discharge to atmosphere.

Avoid releasing to the environment.

Contain the spillage. Any large spillage into watercourses must be alerted to the regulatory authority responsible for environmental protection or other regulatory body.

For detailed explanations of the risk management measures that adequately control exposure of the environment to the substance please check the relevant exposure scenario, available via your supplier.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	White powder
Odour:	Fatty odour
Odour threshold:	not applicable
pH:	not applicable
Melting point:	not applicable
Boiling point:	not applicable (solid)
Flash point:	not applicable (solid)
Evaporation rate:	not applicable (solid)



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Flammability:	non flammable (study result, EU A.10 method)
Explosive limits:	non explosive (void of any chemical structures commonly associated with explosive properties)
Vapour pressure:	not applicable (solid)
Vapour density:	not applicable
Relative density:	not applicable (EU A.3 method)
Density:	1.1 g/cm ³
Solubility in water:	Essentially insoluble (EU A.6 method)
Partition coefficient:	not applicable
Auto ignition temperature:	no relative self-ignition temperature below 400 °C (study result, EU A.16 method)
Decomposition temperature:	not applicable
Viscosity:	not applicable (solid with a boiling point > 315 °C)
Oxidising properties:	no oxidising properties (Based on the chemical structure, the substance does not contain a surplus of oxygen or any structural groups known to be correlated with a tendency to react exothermally with combustible material)

9.2 Other information

Not available



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10. STABILITY AND REACTIVITY

10.1 Reactivity

Stable, none known.

10.2 Chemical stability

Under normal conditions of use and storage (dry conditions), Birchset CR is stable.

10.3 Possibility of hazardous reactions

Stable, none known.

10.4 Conditions to avoid

Minimise exposure to air and moisture to avoid degradation.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

Hydrogen chloride and sulphur dioxide may be released at high temperatures.



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11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Toxicity endpoints	Outcome of the effects assessment
Absorption	None known.
Acute toxicity	Birchset CR is not acutely toxic. Oral LD ₅₀ > no data available. Dermal LD ₅₀ > no data available. Inhalation no data available Classification for acute toxicity is not warranted. For irritating effects to the respiratory tract see below.
Irritation / corrosion	None known.
Sensitisation	No data available. Classification for sensitisation is not warranted.
Repeated dose toxicity	None known. No data available.
Mutagenicity	None known. No data available. Classification for genotoxicity is not warranted.
Carcinogenicity	None known. No data available. Classification for carcinogenicity is not warranted.
Toxicity for reproduction	None known. No data available. Classification for reproductive toxicity according to regulation (EC) 1272/2008 is not required.

12 ECOLOGICAL INFORMATION

12.1 Toxicity

12.1.1 Acute/Prolonged toxicity to fish

None known. No data available.

12.1.2 Acute/Prolonged toxicity to aquatic invertebrates

None known. No data available.

12.1.3 Acute/Prolonged toxicity to aquatic plants

None known. No data available.

12.1.4 Toxicity to micro-organisms e.g. bacteria

None known. No data available.



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12.1.5 Chronic toxicity to aquatic organisms

None known. No data available.

12.1.6 Toxicity to soil dwelling organisms

None known. No data available.

12.1.7 Toxicity to terrestrial plants

None known. No data available.

12.1.8 General effect

None known. No data available.

12.1.9 Further information

None known. No data available.

12.2 Persistence and degradability

None known. No data available.

12.3 Bioaccumulative potential

None known. No data available.

12.4 Mobility in soil

None known. No data available.

12.5 Results of PBT and vPvB assessment

None known. No data available.

12.6 Other adverse effects

No other adverse effects are identified

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal of Birchset CR should be in accordance with local and national legislation. Processing, use or contamination of this product may change the waste management options. Dispose of container and unused contents in accordance with applicable member state and local requirements.

The used packing is only meant for packing this product; it should not be reused for other purposes. After usage, empty the packing completely.

14 TRANSPORT INFORMATION

Birchset CR is not classified as hazardous for transport (ADR (Road), RID (Rail), IMDG / GGVSea (Sea)).



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14.1 UN-Number

Not applicable

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class

Birchset CR is not classified as hazardous in IMDG (Amendment 34-08).

14.4 Packing group

Birchset CR is not classified as hazardous in Air transport (ICAO/IATA)

14.5 Environmental hazards

None

14.6 Special precautions for user

None

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not regulated.

15 REGULATORY INFORMATION

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

Authorisations:	Not required
Restrictions on use:	None
Other EU regulations:	Birchset CR is not a SEVESO substance, not an ozone depleting substance and not a persistent organic pollutant.
National regulations:	None

15.2 Chemical safety assessment

A chemical safety assessment has been carried out for this substance.

16 OTHER INFORMATION

Data are based on our latest knowledge but do not constitute a guarantee for any specific product features and do not establish a legally valid contractual relationship.

16.1 Hazard Statements

None required

16.2 Precautionary Statements

None required



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16.3 Risk Phrases

None required

16.4 Safety Phrases

None required

16.5 Abbreviations

EC₅₀: median effective concentration

LC₅₀: median lethal concentration

LD₅₀: median lethal dose

NOEC: no observable effect concentration

WEL: workplace exposure limit

OEL: occupational exposure limit

PBT: persistent, bioaccumulative, toxic chemical

PNEC: predicted no-effect concentration

STEL: short-term exposure limit

TWA: time weighted average

vPvB: very persistent, very bioaccumulative chemical

16.6 Key literature references

Anonymous, 2006: Tolerable upper intake levels for vitamins and minerals Scientific Committee on Food, European Food Safety Authority, ISBN: 92-9199-014-0 [SCF document]

Anonymous, 2008: Recommendation from the Scientific Committee on Occupational Exposure Limits (SCOEL) for calcium oxide (CaO) and calcium dihydroxide (Ca(OH)₂), European Commission, DG Employment, Social Affairs and Equal Opportunities, SCOEL/SUM/137 February 2008

16.7 Revision

Disclaimer

This safety data sheet (SDS) is based on the legal provisions of the REACH Regulation (EC 1907/2006; article 31 and Annex II), as amended. Its contents are intended as a guide to the appropriate precautionary handling of the material. It is the responsibility of recipients of this SDS to ensure that the information contained therein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. Information and instructions provided in this SDS are based on the current state of scientific and technical knowledge at the date of issue indicated. It should not be construed as any guarantee of technical performance, suitability for particular applications, and does not establish a legally valid contractual relationship. This version of the SDS supersedes all previous versions.