

SAFETY DATA SHEET

Safety data sheet according to (EC) No. 1907/2006

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier:**

Burnblock JG 30

UFI: H300-W0XH-N00A-GYCH

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

Fire retardant. Powder dissolves before use.

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

Burnblock ApS

Wilders Plads 15C Phone: +45 70232053

DK-1403 Copenhagen K

Responsible person for the safety data sheet (e-mail): info@burnblock.com**1.4. Emergency telephone number:**

National Poisons Information Centre (Ireland): +353 (1) 809 2166 (8.00 a.m. to 10.00 p.m. 7 days a week).

Healthcare Professionals: +353 (1) 809 2566 (24-hour service).

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture:**

Irritant powder.

CLP (1272/2008): Eye Irrit. 2;H319

2.2. Label elements:

WARNING

H319: Causes serious eye irritation.

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

P264: Wash hands thoroughly after handling.

P280: Wear eye protection/face protection.

P337+P313: If eye irritation persists: Get medical advice/attention.

2.2. Other hazards:

PBT/vPvB: No ingredients are PBT/vPvB, according to the criteria in REACH Annex XIII.

Endocrine disrupting properties: The substances are not identified as having endocrine disrupting properties in accordance with the criteria set out in Regulation 2023/707.

SECTION 3: Composition/information on ingredients**3.2. Mixtures:**

% w/w	Substance name	CAS-no.	EC-no.	Index-no.	REACH reg.-no.	Classification
2.5-<10	Citric acid	77-92-9	201-069-1	607-750-00-3	01-2119457026-42	Eye Irrit. 2;H319 STOT SE 3;H335
2.5-<10	Sodium benzoate	532-32-1	208-534-8	-	01-2119460683-35	Eye Irrit. 2;H319

Wording of hazard statement(s) – see Section 16.

SECTION 4: First-aid measures

4.1. Description of first aid measures:

- Inhalation: Move the affected person to fresh air. Keep at rest. Clean the nose thoroughly. If symptoms persist: Seek medical advice.
- Skin contact: Remove all contaminated clothing. Wash skin with water and mild soap. If irritation persists: Seek medical advice.
- Eye contact: Flush with water or physiological salt water for at least 15 minutes, holding eyelids open; remember to remove contact lenses, if any. If irritation persists: Seek medical advice.
- Ingestion: Rinse mouth and drink plenty of water. Keep at rest. In case of discomfort: Seek medical advice.

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

Irritation of eyes with redness and pain.

4.3. Indication of any immediate medical attention and special treatment needed:

Show this safety data sheet to a physician or emergency ward.

SECTION 5: Firefighting measures

5.1. Extinguishing media:

Not relevant. Not combustible.

5.2. Special hazards arising from the substance or mixture:

Against surrounding fire: Do not inhale smoke fumes.

5.3. Advice for firefighters:

When extinguishing surrounding fires use breathing apparatus with an independent source of air.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment - see section 8. Reduce dust generation.

6.2. Environmental precautions:

Do not empty into drains – see section 12. Inform appropriate authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up:

Collect and dispose of as chemical waste. Flush area of spill with water. Further handling of spillage - see section 13.

6.4. Reference to other sections:

See references above.

SECTION 7: Handling and storage

7.1. Precautions for safe handling:

Provide adequate ventilation. Avoid inhalation of dust. Avoid contact with skin and eyes. Avoid generation of dust and spreading. Rinse immediately if skin is contaminated. Change contaminated clothing. Required access to water and eye wash fountain. Take action to prevent static discharges.

7.2. Conditions for safe storage, including any incompatibilities:

Keep container tightly closed and dry at 5-30°C. Maximum storage time: 24 months.

Store securely and out of reach of unauthorized personnel and separated from food, feed etc.

7.3. Specific end use(s):

See section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters:

Occupational exposure limit values (2020):	8-hour TWA	15-min STEL	Notes
Dusts non-specific – total inhalable	10 mg/m ³	-	-
Dusts non-specific – respirable	4 mg/m ³	-	-

SECTION 8: Exposure controls/personal protection (continued)

DNEL:	Exposure	Value	Population	Effects
Sodium benzoate	Long term, dermal	62.5 mg/kg	Worker	Systemic
	Long term, inhalation	0.1 mg/m ³	Worker	Local
	Long term, inhalation	3 mg/m ³	Worker	Systemic
	Long term, ingestion	16.6 mg/kg	Consumer	Systemic
	Long term, dermal	31.25 mg/kg	Consumer	Systemic
	Long term, inhalation	0.06 mg/m ³	Consumer	Local
	Long term, inhalation	1.5 mg/m ³	Consumer	Systemic
PNEC:	Medium	Value		
Sodium benzoate	Fresh water	0.13 mg/l		
	Sea water	0.013 mg/l		
	Fresh water sediment	1.76 mg/kg		
	Sea water sediment	0.176 mg/kg		
	Sewage treatment plant	10 mg/l		
	Soil	0.06 mg/kg		
	Intermittent release	0.305 mg/l		
	Secondary poisoning	0.3 g/kg		
Citric acid	Fresh water	0.44 mg/l		
	Sea water	0.044 mg/l		
	Fresh water sediment	34.6 mg/kg		
	Sea water sediment	3.46 mg/kg		
	Sewage treatment plant	1000 mg/l		
	Soil	33.1 mg/kg soil		

8.2. Exposure controls:

Appropriate engineering controls: Ensure adequate ventilation. Take precautions against static electricity.

Personal protective equipment:

Respiratory protection: Not required when sufficient ventilation is provided. In case of inadequate ventilation/dust formation: Use an approved mask with a particle filter type P2 (EN 149). The filter has a limited lifetime and must be changed. Read the instruction.

Skin protection: Wear protective gloves of e.g., nitrile rubber (EN 374). There are no available data for breakthrough time therefore, it is recommended to change the glove if contaminated.

Eye protection: Wear tightly fitting safety goggles (EN ISO 16321-1).

Environmental exposure controls: None particular.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties:

Physical state:	Powder
Colour:	Not determined
Odour:	Not determined
Melting point/freezing point (°C):	Not determined
Boiling point or initial boiling point and boiling range (°C):	Not determined
Flammability (solid, gas):	Not determined
Lower and upper explosion limit (vol-%):	Not determined
Flash point (°C):	Not determined
Auto-ignition temperature (°C):	800
Decomposition temperature (°C):	Not determined
pH:	Not determined
Kinematic viscosity:	Not determined
Solubility (mg/l, 20°C):	Soluble in water
Partition coefficient n-octanol/water (log value):	Not relevant – mixture (see section 12)
Vapour pressure (Pa v. 25°C):	Not determined
Density and/or relative density (g/cm ³ , 20°C):	1,041
Relative vapour density:	Not determined
Particle characteristics:	Not determined
9.2. Other information:	None

SECTION 10: Stability and reactivity

10.1. Reactivity:

No available data.

10.2. Chemical stability:

Stable under normal conditions (see section 7).

10.3. Possibility of hazardous reactions:

No available data.

10.4. Conditions to avoid:

No available data.

10.5. Incompatible materials:

Strong acids and bases.

10.6. Hazardous decomposition products:

Thermal decomposition may produce oxides of carbon.

SECTION 11: Toxicological information

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

Acute 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: Eye Irrit. 2;H319 Causes serious eye irritation.

Respiratory or skin sensitization: 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.

Hazard class	Data	Test	Reference
Acute toxicity:			
Inhalation	LC ₅₀ (rat, dust) > 5 mg/l (Citric acid)	No info	Supplier
	LC ₅₀ (rat, dust) > 5 mg/l (Sodium benzoate)	No info	Supplier
Dermal	LD ₅₀ (rat) > 2000 mg/kg (Citric acid)	OECD 402	ECHA
	LD ₅₀ (rat) > 2000 mg/kg (Sodium benzoate)	No info	Supplier
Oral	LD ₅₀ (mouse) = 5400 mg/kg (Citric acid)	OECD 401	ECHA
	LD ₅₀ (rat) = 4070 mg/kg (Sodium benzoate)	No info	Supplier
Corrosion/irritation:	No skin irritation, rabbit (Citric acid)	OECD 404	Supplier
	Eye irritation, rabbit (Citric acid)	OECD 405	Supplier
	No skin irritation, rabbit (Sodium benzoate)	OECD 404	IUCLID
Sensitization:	No skin sensitization, guinea pig (Citric acid)	OECD 406	Supplier
	No skin sensitization, in-vitro (Sodium benzoate)	OECD 406	ECHA
CMR:	No mutagenic effects, in-vitro (Citric acid)	OECD 374	Supplier
	No carcinogenic effects, rodents (Sodium benzoate)	No info	IUCLID
	No mutagenicity, in-vitro (Sodium benzoate)	OECD 471	Supplier
	No mutagenicity, in-vivo (Sodium benzoate)	OECD 475	Supplier
	No reprotoxic effects, rodents (Sodium benzoate)	No info	IUCLID

Information on likely routes of exposure: Lungs and gastrointestinal tract.

Symptoms:

Inhalation: Inhalation of powder may irritate the upper respiratory tract with coughing and pain, discomfort and nausea.

Skin: May cause irritation.

Eyes: Moderate irritating to eyes with redness and pain.

Ingestion: May irritate the gastrointestinal tract and may cause nausea, vomiting and diarrhea.

Chronic effects: None known.

11.2. Information on other hazards: None known.

SECTION 12: Ecological information

12.1. Toxicity:

Aquatic	Data	Test (Media)	Data source
Fish	LC ₅₀ (Leuciscus idus, 48h): 440 mg/l (Citric acid) LC ₅₀ (Lepomis macrochirus, 96h): 1516 mg/l (Citric acid) LC ₅₀ (Pimephales promelas, 96h) = 484 mg/l (Sodium benzoate)	OECD 203 (FW) No data Flow through (FW)	IUCLID Supplier IUCLID
Daphnia	EC ₅₀ (Daphnia magna, 24h) = 1535 mg/l (Citric acid) EC ₅₀ (Daphnia magna, 48h) < 650 mg/l (Sodium benzoate) NOEC (Daphnia magna, 21d) = 51 mg/l (Sodium benzoate)	No data (FW) No data (FW) OECD 211 (FW)	ECHA IUCLID Supplier
Algae	EC ₅₀ (Scenedesmus quadricauda, 168h) = 425 mg/l (Citric acid) EC ₅₀ (Pseudokirchneriella subcapitata, 72h) > 30.5 mg/l (Sodium benzoate)	No data (FW) OECD 201 (FW)	Supplier Supplier

12.2. Persistence and degradability:

Citric acid is rapidly degradable (28d, 97%) (OECD 301B).

Sodium benzoate is degraded 90% in 7 days in a OECD 301B test, and is therefore rapidly degradable.

12.3. Bioaccumulative potential:

Citric acid: Log K_{ow} = -1.55; BCF = 3 (no significant bioaccumulation is expected).

Sodium benzoate: Log K_{ow} = -2.13 (no significant bioaccumulation is expected).

12.4. Mobility in soil:

Citric acid: Log K_{oc} = -1.72 (Very high mobility expected in soil environments).

Sodium benzoate: K_{oc} (model data) < 20 (Very high mobility expected in soil environments).

12.5. Results of PBT and vPvB assessment:

The ingredient is not considered a PBT/vPvB, according to the criteria in REACH Annex XIII.

12.6. Endocrine disrupting properties:

None known.

12.7. Other adverse effects:

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods:

Disposal should be according to local, state or national legislation. Dispose of through authority facilities or pass to chemical disposal company.

EWC-code:

20 01 14

SECTION 14: Transport information

Not dangerous goods according to ADR/RID/IMDG/IATA).

14.1. UN number or ID number: None.

14.2. UN proper shipping name: None.

14.3. Transport hazard class(es): None.

14.4. Packing group: None.

14.5. Environmental hazards: No.

14.6. Special precautions for user: None.

14.7. Maritime transport in bulk according to IMO instruments: Not relevant.

SECTION 15: Regulatory information

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

None.

15.2. Chemical safety assessment:

No CSR.

SECTION 16: Other information

Hazard statements mentioned in section 3:

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

Abbreviations:

CMR = Carcinogenicity, mutagenicity and reproductive toxicity.

CSR = Chemical Safety Report

DNEL = Derived No-Effect Level

EC₅₀ = Effect Concentration 50%

FW = Fresh Water

LC₅₀ = Lethal Concentration 50%

LD₅₀ = Lethal Dose 50%

PBT = Persistent, Bioaccumulative, Toxic

PNEC = Predicted No-Effect Concentration

vPvB = very Persistent, very Bioaccumulative

Literature:

ECHA = European Chemical Agency Registration dossier

IUCLID = International Uniform Chemical Database Information

Supplier's safety data sheet

Training advice:

No special training is required. However, the user should be well instructed in the execution of his/her task, be familiar with this Safety Data Sheet and have normal training in the use of personal protective equipment.

Changes since the previous edition:

Not relevant

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