

Product Brite Bio Laundry Powder
 Revision date 14 May 2021
 Revision 2



Safety Data Sheet (SDS)
 according to Regulation (EC) No. 1907/2006

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

1.1 Product identifier

Product name	Brite Bio Laundry Powder
Product no.	LMBRITEBIO
Other means of identification	No information available.

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

Identified uses	Cleaning agent. For professional use only.
Uses advised against	No uses advised against are identified.

1.3 Details of the supplier of the safety data sheet

Supplier	Kitchenmaster NI Ltd 11 Comber Road Belfast BT8 8AN United Kingdom Tel: 028 90814777
Contact person	sales@kitchenmaster-ni.com

1.4 Emergency telephone number

Emergency telephone	Emergency Telephone Number: 028 9081 4777 08:30 – 17:00 Monday to Thursday 08:30 – 16:30 Friday
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Section 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (EC 1272/2008)	
Physical and chemical hazards	Me. Corr 1 - H290
Human health	Skin Corr. 1B - H314
Environment	Not classified

2.2 Label elements

Contains	Disodium metasilicate pentahydrate
Detergent labeling	≥5% <15% oxygen-based bleaching agents ≥15% <30% Phosphates <5% anionic surfactants <5% non-ionic surfactants

Label in accordance with (EC) no. 1272/2008



Signal word	Danger
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Hazard statements	H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage.
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Precautionary statements**Prevention**

P260 Do not breathe dust/fume/ gas/mist/vapours/spray.
 P280 Wear protective gloves/ protective clothing/eye protection/face protection.

Response

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/ shower.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTER or doctor/physician.

2.3 Other hazards

None known.

Section 3: Composition/information on ingredients**3.1 Substance**

Not applicable.

3.2 Mixtures

Name	Product identifier	Regulation (EC) No 1272/2008	%
sodium carbonate	CAS-No.: 497-19-8 EC No.: 207-838-8 REACH Reg No.: 01-2119485498-19-XXXX	Eye Irrit.2A - H319	20-30%
disodium carbonate, compound with hydrogen peroxide (2:3)	CAS-No.: 15630-89-4 EC No.: 239-707-6	Ox Sol 2- H272, Acute Tox 4 - H302, Eye Dam. 1 - H318	5-10%
Disodium metasilicate pentahydrate	CAS-No.: 10213-79-3 EC No.: 229-912-9 REACH Reg No.: 01-2119449811-37-XXXX	Me. Corr 1 - H290, Me. Corr 1 - H290, Skin Corr. 1B - H314, STOT SE 3 - H335	5-10%
ALCOHOLS, C12-14, ETHOXYLATED, PROPOXYLATED	CAS-No.: 68439-51-0 EC No.: 614-484-1	Aquatic Chronic 3 - H412	1-5%
subtilisin	CAS-No.: 9014-01-1 EC No.: 232-752-2	Skin Irrit.2 - H315, Eye Dam. 1 - H318, Resp. Sens 1 - H334, STOT SE 3 - H335	<0.1%
diethyl phthalate	CAS-No.: 84-66-2 EC No.: 201-550-6		<0.1%
benzyl acetate	CAS-No.: 140-11-4 EC No.: 205-399-7	Aquatic Chronic 3 - H412	<0.1%

The full text for all hazard statements are displayed in section 16.

Composition comments

The data shown are in accordance with the latest EC Directives.

Section 4: First aid measures**4.1 Description of first aid measures****General information**

As a general rule, in case of doubt or if symptoms persist, always call a doctor. Seek medical attention for all burns and eye injuries, regardless how minor they may seem. First aid personnel must be aware of own risk during rescue. Provide general first aid, rest, warmth and fresh air.

Inhalation

If inhaled, remove to fresh air. Keep person warm and at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and seek medical attention.

Ingestion

If this product is ingested, remove victim immediately from source of exposure. Rinse mouth thoroughly. Seek medical advice (show the label where possible). Never give anything by mouth to an unconscious person. Do not induce vomiting.

Skin contact

Remove affected person from source of contamination Remove contaminated clothing. In case of skin contact flush exposed area with copious amounts of water. Continue to rinse for at least 15 minutes. Get medical attention if irritation develops or persists.

Eye contact

Do not rub eye. Avoid contaminating unaffected eye. Rinse with a gentle stream water for at least 15 minutes. Hold eye lids open. Remove contact lenses if present and easy to do so. Get prompt medical attention.

4.2 Most important symptoms and effects, both acute and delayed

General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	May cause chemical burns in mouth and throat.
Ingestion	May cause irritation or tissue damage in mucous membranes, throat, oesophagus and stomach. May cause stomach pain or vomiting. May cause chemical burns in mouth and throat.
Skin contact	Corrosive. Causes severe skin burns.
Eye contact	Causes severe eye damage.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to the physician	Treat symptomatically.
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Section 5: Firefighting measures**5.1 Extinguishing media**

Extinguishing media	Use fire-extinguishing media appropriate for surrounding materials. Water spray or CO ₂ .
Unsuitable extinguishing media	Do not use dry chemicals or foams. High volume water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products	During fire, toxic gases (CO, CO ₂) are formed. May produce oxygen if heated to decomposition.
Unusual fire & explosion hazards	Slowly decomposes at temperatures exceeding 50°C forming sodium carbonate and hydrogen peroxide. Dust clouds may be explosive.
Specific hazards	Decomposition is accelerated by heat and may be accompanied by evolution of oxygen, which may enhance the combustion of other flammable materials. Containers can burst violently when heated, due to excess pressure build-up.

5.3 Advice for firefighters

Special fire fighting procedures	Ventilate closed spaces before entering them. Keep up-wind to avoid fumes. Avoid breathing fire vapours. If possible, fight fire from protected position.
Protective equipment for firefighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

Section 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

For non-emergency personnel	Eliminate all sources of ignition. Read and follow manufacturer's recommendations. Avoid prolonged or repeated exposure. In case of inadequate ventilation, use respiratory protection. Do not touch or walk through spilled material. Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of dust or vapours and contact with skin and eyes. Avoid raising powdered materials into airborne dust.
For emergency responders	Follow safe handling advice and personal protective equipment recommendations for normal use of product.

6.2 Environmental precautions

Environmental precautions	Avoid release to the environment. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.
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6.3 Methods and material for containment and cleaning up

Spill clean up methods	Prevent further leakage or spillage if safe to do so. Ventilate and evacuate the area. Eliminate all ignition sources. Wear necessary protective equipment. Wear respirator if ventilation is not adequate. Sweep/shovel up residues. Take care not to raise dust. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container.
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6.4 Reference to other sections

Reference to other sections For waste disposal, see section 13. See section 1 for emergency contact. For personal protection, see section 8.

Section 7: Handling and storage**7.1 Precautions for safe handling**

Handling Avoid inhalation of dust and contact with skin and eyes. Use personal protective equipment, see Section 8. Ensure good dust ventilation during handling. Wear appropriate respirator when ventilation is inadequate.
Keep away from heat, sparks and open flame. Keep away from flammable materials and incompatible substances. Avoid generation of dust clouds/accumulation of dust in work area. Never return spilled product into its original container for re-use. (Risk of decomposition).

7.2 Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly closed original container in a dry, cool and well-ventilated place. Keep away from incompatible materials (see section 10).
Storage class Chemical storage. Store separately from other chemicals.

7.3 Specific end use(s)

Specific end use(s) The identified uses are in section 1 of this Safety Data Sheet.
Usage description Use only according to directions. Replace and tighten cap after use.

Section 8: Exposure controls/Personal protection**8.1 Control parameters**

Component	STD	TWA (8 Hrs)	STEL (15mins)	Notes
subtilisin	WEL		0.00004 mg/m ³	Sen
subtilisin	OEL		0.00006 mg/m ³	Sens.
diethyl phthalate	WEL		5 mg/m ³	10 mg/m ³
benzyl acetate	OEL	10 ppm		

Ingredient comments Ireland, Occupational Exposure Limits 2021.
WEL - Workplace Exposure Limits - EH40/2005 Workplace exposure limits.

8.2 Exposure Controls**Protective equipment****Engineering measures**

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

Respiratory equipment

If ventilation is inadequate, suitable respiratory protection must be worn. EN 136/140/145/143/149. The specific respirator selected must be based on contamination levels found in the work place. Where risk assessment shows air-purifying respirators are appropriate a full face respirator conforming to EN143 should be used, and suitable respirator cartridges as a backup to engineering controls. Use respiratory equipment with particle filter - Type P3. Consult manufacturer for specific advice.

Hand protection

Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374) is recommended. (EU Directive 89/686/EEC). Gloves must be inspected prior to use. Suggested material: Butyl-rubber. Layer thickness: 0.11 mm. Breakthrough time: >480 minutes. Consult manufacturer for advice.
Selection of the glove material depends on consideration of the penetration times, rates of diffusion and degradation, and concentration specific to the workplace. Use proper glove

	removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.
Eye protection	Wear safety goggles or face shield to prevent any possibility of eye contact. Use equipment for eye protection tested and approved under appropriate government standards such as EN 166(EU).
Other protection	Body protection must be chosen in consultation with a specialist, depending on activity and possible exposure, e.g. apron, protective boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).
Hygiene measures	Observe normal hygiene standards. Wash promptly if skin becomes contaminated. When using do not eat, drink or smoke. Wash hands after use.
Process conditions	Ensure that eye flushing systems and safety showers are located close by in the work place.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Powder.
Colour	White with blue specks.
Odour	Characteristic.
Odour threshold - lower	No information available as testing has not been completed.
Odour threshold - upper	No information available as testing has not been completed.
pH-Value, Conc. Solution	Not applicable as the product is a diluted solution.
pH-Value, Diluted solution	11 - 12 (2% Solution)
Melting point	No information available as testing has not been completed.
Initial boiling point and boiling range	No information available as testing has not been completed.
Flash point	Non-Flammable
Evaporation rate	No information available as testing has not been completed.
Flammability state	Not applicable as the product is not flammable.
Flammability limit - lower(%)	Not applicable as the product is not flammable.
Flammability limit - upper(%)	Not applicable as the product is not flammable.
Vapour pressure	No information available as testing has not been completed.
Vapour density (air=1)	No information available as testing has not been completed.
Relative density	No information available as testing has not been completed.
Bulk density	No information available as testing has not been completed.
Solubility	Soluble in water.
Decomposition temperature	No information available as testing has not been completed.
Partition coefficient; n-Octanol/Water	Not applicable as the product is a mixture.
Auto ignition temperature (°C)	Not applicable as the product is not flammable.
Viscosity	Not applicable as the product is a solid.
Explosive properties	Danger of dust explosion.
Oxidising properties	The product does not meet the criteria to be classified as oxidising.

9.2 Other information

Molecular weight	Not applicable as the product is a mixture.
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Volatile organic compound	No information available as testing has not been completed.
Other information	None noted.

Section 10: Stability and reactivity

10.1 Reactivity

Reactivity	Reactions may occur with strong oxidizing agents and acids. May be corrosive to metals. Avoid generation of dust, which at sufficient concentrations can form explosive mixtures with air.
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10.2 Chemical stability

Stability	Stable under normal temperature conditions and recommended use.
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10.3 Possibility of hazardous reactions

Hazardous reactions	For information on hazardous reaction see section 10.1.
Hazardous polymerisation	Unknown
Polymerisation description	Unknown.

10.4 Conditions to Avoid

Conditions to avoid	Slowly decomposes at temperatures exceeding 50°C forming sodium carbonate and hydrogen peroxide. Heat, sparks, open flames, temperature extremes and direct sunlight.
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10.5 Incompatible materials

Materials to avoid	Do not mix with other chemicals unless listed on directions. Contains SODIUM PERCARBONATE: Avoid contact with metals, metallic ions, alkalis, reducing agents and organic matter (e.g. alcohol, terpenes) as this may produce self-accelerated thermal decomposition. Strong oxidising substances. Strong acids.
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10.6 Hazardous decomposition products

Hazardous decomposition products	In case of fire, toxic gases (CO, CO ₂) may be formed. When heated, vapours/gases hazardous to health may be formed. Sodium carbonate. Oxygen. Hydrogen peroxide.
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Section 11: Toxicological information

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

Toxicological information	No toxicological information for the overall finished product.
Acute toxicity (Oral LD50)	No information available as testing has not been completed.
Acute toxicity (Dermal LD50)	No information available as testing has not been completed.
Acute toxicity (Inhalation LD50)	No information available as testing has not been completed.
Serious eye damage/irritation	Causes serious eye damage.
Skin corrosion/irritation	The product is classified as a skin corrosion/irritation hazard.
Respiratory sensitisation	The product is not classified as a respiratory hazard.
Skin sensitisation	The product is not classified as a skin sensitisation hazard.
Germ cell mutagenicity	The product is not classified as a mutagen.
Carcinogenicity	The product is not classified as a carcinogen hazard.
Specific target organ toxicity - Single exposure:	
STOT - Single exposure	The product is not classified as a single exposure specific target organ toxin.
Specific target organ toxicity - Repeated exposure:	
STOT - Repeated exposure	The product is not classified as a repeat exposure specific target organ toxin.
Inhalation	May cause chemical burns in mouth and throat.
Ingestion	May cause irritation or tissue damage in mucous membranes, throat, oesophagus and

Skin contact	stomach. May cause stomach pain or vomiting. May cause chemical burns in mouth and throat.
Eye contact	Corrosive. Causes severe skin burns.
Waste management	Causes severe eye damage. When handling waste, consideration should be made to the safety precautions applying to handling of the product.
Routes of entry	Eyes, skin, ingestion or inhalation.
Target organs	Eyes, skin, digestive system, respiratory system.
Aspiration hazards:	The product is not classified as an aspiration hazard.
Reproductive toxicity:	The product is not classified as a reproductive hazard.

Name	LD50 oral	LD50 dermal	LD50 inhalation
sodium carbonate	2800.00mg/kg Rat	2000.00mg/kg Rat	
subtilisin	>2.00g/kg Rat		
Disodium metasilicate pentahydrate	1152.00mg/kg Rat	>5000.00mg/kg Rat	>2.06g/m ³ Rat 4 Hours

11.2 Information on other hazards

Information on other hazards	None known.
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Section 12: Ecological information

12.1 Toxicity

Acute toxicity - Fish	No information available as testing has not been completed.
Acute toxicity - Aquatic invertebrates	No information available as testing has not been completed.
Acute toxicity - Aquatic plants	No information available as testing has not been completed.
Acute toxicity - Microorganisms	No information available as testing has not been completed.
Chronic toxicity - Fish	No information available as testing has not been completed.
Chronic toxicity - Aquatic invertebrates	No information available as testing has not been completed.
Chronic toxicity - Aquatic plants	No information available as testing has not been completed.
Chronic toxicity - Microorganisms	No information available as testing has not been completed.
Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Eco toxicological information	No ecological toxicity available on the overall finished product.

12.2 Persistence and degradability

Degradability	The degradability of the product has not been stated.
Biological oxygen demand	No information available as testing has not been completed.
Chemical oxygen demand	No information available as testing has not been completed.

12.3 Bioaccumulative potential

Bioaccumulative potential	No data available on bioaccumulation.
Bioaccumulation factor	No information available as testing has not been completed.
Partition coefficient; n-Octanol/Water	Not applicable as the product is a mixture.

12.4 Mobility in soil

Mobility	Soluble in water.
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12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
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12.6 Endocrine disrupting properties

Endocrine disrupting properties The product does not contain any substances with endocrine disrupting properties at a concentration above or equal to 0.1%.

12.7 Other adverse effects

Other adverse effects None known.

Name	Acute toxicity (Fish)	Acute toxicity (Aquatic invertebrates)	Acute toxicity (Aquatic plants)
sodium carbonate	LC50 96 Hours 300.00mg/l Lepomis macrochirus (Bluegill)	EC50 48 Hours 265.00mg/l Daphnia magna	
Disodium metasilicate pentahydrate	LC50 96 Hours 210.00mg/l Brachydanio rerio (Zebra Fish)	EC50 48 Hours 1700.00mg/l Daphnia magna	EC50 72 Hours 207.00mg/l Scenedesmus Subspicatus

Section 13: Disposal considerations

Waste management When handling waste, consideration should be made to the safety precautions applying to handling of the product.

13.1 Waste treatment methods

Disposal methods Dispose of waste and residues in accordance with local authority requirements, and in accordance with all local, national and international regulations. For waste disposal, use a licensed industrial waste disposal agent.

Section 14: Transport information

14.1 UN number or ID number

UN no. (ADR) UN3253
 UN no. (IMDG) UN3253
 UN no. (IATA) UN3253

14.2 UN proper shipping name

ADR proper shipping name DISODIUM TRIOXOSILICATE
 IMDG proper shipping name DISODIUM TRIOXOSILICATE
 IATA proper shipping name DISODIUM TRIOXOSILICATE

14.3 Transport hazard class(es)

ADR class 8
 IMDG class 8
 IATA class 8

Transport labels



14.4 Packing group

ADR/RID/ADN packing group III
 IMDG packing group III
 IATA packing group III

14.5 Environmental hazards

ADR No
 IMDG No
 IATA No

14.6 Special precautions for user

EMS F-A, S-B
 Emergency action code A803
 Hazard no. (ADR) 80

Tunnel restriction code (E)

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

Section 15: Regulatory information

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

EU legislation	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments. The UN Globally Harmonized System (GHS) Safety Data Sheet format (Annex IV) is implemented as Annex II of REACH EU No 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
	REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.
	Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019.
Approved code of practice	Workplace Exposure Limits Guidance Note EH40/2005.
	2021 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations (2001-2021) and the Safety, Health and Welfare at Work (Carcinogens) Regulations (2001-2019)

15.2 Chemical safety assessment

Chemical safety assessment No chemical safety assessment has been carried out.

Section 16: Other information

General information	This Safety Data Sheet is in accordance with Reach Regulation (EC) No 453/2010.
Revision comments	This is a second issue. [1]Information updated. [2]Information updated. [3]Information updated. [4]Information updated. [5]Information updated. [6]Information updated. [8]Information updated. [9]Information updated. [10]Information updated. [11]Information updated. [12]Information updated. [14]Information updated. [15]Information updated.
Revision date	14 May 2021
Supersedes date	07 July 2017
Revision	2
Safety data sheet status	Approved.

Hazard statements in full

H319	Causes serious eye irritation.
H272	May intensify fire; oxidiser.
H302	Harmful if swallowed.
H318	Causes serious eye damage.
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.
H315	Causes skin irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.
H410	Very toxic to aquatic life with long lasting effects.
H228	Flammable solid.
H332	Harmful if inhaled.
H371	May cause damage to organs .
H361	Suspected of damaging fertility or the unborn child .
H400	Very toxic to aquatic life.

Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.