1. Identification of the substance/mixture and of the Company/undertaking

1.1 Product identifier

Product Name:	Block Paving, The Original Eco Cleaner, Block Blitz
Product Code:	BP02/BBO2, BP04/BBO4, BP08/BBO8
REACH Registration No.:	N/A

1.2 Relevant identified uses

Outdoor surface cleaner/treatment

Uses advised against

NOT SUITABLE FOR USE AS A READY TO USE PRODUCT, DILUTION REQUIRED

1.3 Company Details

Company Name:	Block Blitz Ltd
Address:	1 Willoughton Place, Gainsborough, DN21 1EB
Telephone:	+44 (0) 1302 246451
Email:	enquiries@blockblitz.co.uk

1.4 Emergency Telephone Number

+44 (0) 1302 246451 (not 24 hrs.)

2. Hazards Identification

2.1 Classification of the mixture

2.1.1 Classification according to Regulation (EC) 1272/2008 [CLP/GHS]

Classification: Metal Corrosion (Category 1)
Skin Corrosion (Category 1)

2.1.2 Classification according to Directives 1999/45/EEC

Classification: Causes severe burns (C)

2.2 Labelling

2.2.1 Labelling according to Regulation (EC) 1272/2008[CLP/GHS]

CLP Hazard Pictograms:

Signal Word: Danger

Hazard Statements:

H290:	May be corrosive to metals
H314:	Causes severe skin burns and eye damage

Precautionary Statements:

P260:	Do not breathe dust
P264:	Wash hands thoroughly after handling
P280:	Wear skin and eye protection
P301 + P330 + P331:	IF SWALLOWED: Rinse mouth. DO NOT induce vomiting
P303 + P361 + P353:	IF ON SKIN (or hair): Remove /Takeoff 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
P501:	Dispose of contents in accordance with local regulations, triple rinse and dispose of container to appropriate domestic recycling stream
P102:	Keep out of reach of children

According to European Directive 67/548/EEC as amended.

Symbol:

Risk Phrases:

R34:	Causes Burns
R35:	Causes severe burns

Safety Phrases:

S22:	Do not breathe dust
S26:	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S27:	Take off immediately all contaminated clothing
S28:	After contact with skin, wash immediately with plenty of water
S37/39:	Wear suitable gloves and eye protection
S59:	Refer to manufacturer on recovery/recycling
S62:	If swallowed, do not induce vomiting: seek medical advice immediately and show this document

3. Composition/Information on ingredients

3.1 Mixtures

EC Classification No 1272/2008

Hazardous Ingredient(s)	Content %	CAS No.	EC No.	REACH Registration No.	Risk phrases
Sodium hydroxide	03 – 11%	1310-73-2	215-135-5	01-2119457892-27-####	R35
Sodium metasilicate	02 – 8%	10213-79-3	229-912-9	01-2119449811-37-####	R34 R35

3.2 Composition Comments

Sodium hydroxide and sodium metasilicate content expressed % as physically modified within the mixture. All of the substances used in this product are being supported for the relevant application in REACH.

4. First aid measures

4.1 Description of first aid measures

First aid instructions

If inhaled:	Move person into fresh air, rest and seek medical advice if any ill- effects occur
If on skin (or hair):	Immediately wash affected skin with plenty of water. Wash clothes before reuse
If in eyes:	Immediately wash affected eyes for several minutes under running water with eyelids held open. Remove contact lenses if possible. Consult a physician
If swallowed:	Never give anything by mouth to an unconscious person. Rinse mouth and throat. Drink 1-2 glasses of water. DO NOT induce vomiting. Consult a physician
Other first aid advice:	If vomiting occurs spontaneously, keep airways clear. Give more water when vomiting stops. Consult a physician

4.2 Most important symptoms and effects, both acute and delayed

If inhaled:	Inhalation of dust may cause irritation and a burning sensation to mucous membranes and upper respiratory tract. Symptoms may include irritation, coughing and tightness of breath
If on skin (or hair):	Where not washed, exposure may result in redness and itchiness. Burns can occur to skin especially when already sore or dry according to contact time
If in eyes:	Exposure to eyes will result in an immediate burning sensation and intense pain. Permanent damage to the eye can occur if not washed within minutes of exposure
If swallowed:	Ingestion can cause burns to the mouth, gastrointestinal tract Severe pain is likely to occur quickly after ingestion with vomiting and

bleeding

4.3 Indication of any immediate medical attention and special treatment needed

Medical treatment:	Supportive for burns

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:	All extinguishing agents permitted
Unsuitable extinguishing media:	None known

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products:	Oxides of sodium and carbon. Does not decompose when used and stored as recommended
Other special hazards during fire:	None known

5.3 Advice for firefighters

Protective actions during firefighting:	Wear self-containing breathing apparatus Special protective equipment No special instructions
Other advice:	N/A

6. Accidental release measures

6.1 Personal Precautions

Non-emergency personnel PPE:	See section 8.2
Emergency responders PPE:	See section 8.2
Controlling risks from accidental release:	Keep away from acids and other alkaline sensitive materials
Emergency procedures:	Evacuate personnel to safe areas

6.2 Environmental Precautions

Avoid excessive undiluted discharges into the environment (rivers, water courses, soil etc.) Dilute any uncontrolled discharges with lots of water

6.3 Methods and material for containment and cleaning up of undiluted product

Containing/cleaning up a spill:	Wear appropriate PPE, use plastic shovel & brush to move undiluted powder to alkaline resistant container e.g plastic HDPE, PE polythene or stainless steel. Dilute remaining product with cold water and mop up. Clean any equipment with clean cold water, if on floor rinse again
Other information on spill handling:	Undiluted product can damage certain floor surfaces and paints, will corrode certain metals, may represent a slip hazard. Collected powder can now be diluted with water at a ratio of 1 part powder to 25 parts water and disposed of via foul drainage

6.4 Reference to other sections

References to other sections:	See section 8.2 for personal protective equipment See section 13.1 for disposal considerations

7. Handling and storage

7.1 Personal Precautions

Protective measures:	Keep dust levels to a minimum. Ensure adequate ventilation Wear protective equipment (see Section 8.2)
Safe handling recommendations:	Wash hands and exposed skin before meals and after use Wear gloves and eye protection when handling the product
Handling incompatibles:	Do not use acids
Reducing environmental risk:	Do not discharge undiluted product into drains and water courses
Occupational hygiene advice:	Wash hands after using this product and before eating drinking or smoking. Remove contaminated clothing and protective equipment before entering eating areas

7.2 Conditions for safe storage, including any incompatibilities

Safe storage:	Managing risks during storage:
Explosive atmospheres formed during storage:	N/A
Corrosive conditions during storage:	N/A
Flammability during storage:	N/A
Incompatible substances or mixtures:	Incompatible with acidic materials and is corrosive to aluminium
Evaporative conditions:	N/A
Potential ignition sources, including	N/A

Safe storage:	Controlling effects of ambient conditions:
Weather conditions:	Do not store outside uncontained
Ambient pressure:	N/A
Temperature:	N/A
Sunlight:	N/A
Humidity:	Keep sealed, do not leave product exposed directly to a humid atmosphere
Vibration:	N/A

Safe storage:	Other advice:
Ventilation requirements for storage:	No specific ventilation requirements
Specific designs for storage rooms regulatory or vessels:	No specific design criteria on storage areas apart from normal requirements for substances of this type
Quantity limits under storage conditions:	N/A
Suitable packaging for the substance:	Keep in original container, can be stored in HDPE plastic and PE polythene and stainless steel. Do not place in aluminium

7.3 Specific end use(s)

Uses:	Use as an outdoor surface cleaner, must be diluted

8. Exposure controls/personal protection

8.1 Control Parameters

8.1.1 Occupational Exposure Standards

Not listed by H&SE (Guidance Note EH40) or ACGIH

Recommended Limits: WEL 6mg/m³ (total dust) (8hr TWA)
3mg/m³ (respirable dust) (8hr TWA)

8.1.2 DNEL's/PNEC

Exposure route of relevance	DNELs (local effects)			
	Workers		General population	
	Long Term	Acute	Long Term	Acute
Inhalation	6 mg /m³		6 mg /m³	

PNEC- Environmental classification not warranted

8.1.3 Biological Limit Values: N/A

8.1.4 Current recommended monitoring procedures: N/A

8.1.5 Air contaminants formed when using the product as intended: N/A

8.2 Exposure controls

8.2.1 Appropriate engineering controls: Handle in accordance with good industrial hygiene

8.2.2 Personal Protection Equipment
Eye protection: Where appropriate use safety goggles or alternatively close-fitting eye protection

Face protection: Not required

Hand protection: Use nitrile, latex or rubber gloves, which satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it

Other skin protection: Do not wear open footwear, wear rubber/plastic boots, wear suitable clothing to cover exposed skin areas

Respiratory protection: In the case of high dust levels wear suitable respiratory protective equipment e.g. dust mask or respirator, that conforms to national/ international standard, EN143. Recommended filter type P2

Thermal hazards: Not required

Environmental exposure controls: Do not release undiluted mixture to surface water

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:	Powder
Physical state:	Solid
Colour:	White to off-white
Odour:	Minimal
Odour threshold:	Data not available
pH:	7-13>
Melting point:	N/A
Freezing point:	N/A
Initial boiling point:	N/A
Boiling range:	N/A
Flash point:	N/A
Flash point method:	N/A
Evaporation rate:	N/A
Flammability (if solid or gas):	N/A
Upper and lower flammability or Explosive limits:	N/A
Vapour pressure:	N/A
Vapour density:	N/A
Relative density:	1.5 @ 20ºc g/cm³
Solubility(ies):	Soluble
Partition coefficient: n-octanol/water:	N/A
Auto-ignition temperature:	N/A
Decomposition temperature:	N/A
Viscosity:	N/A
Explosive properties:	N/A
Oxidising properties:	N/A

9.2 Other information

N/A

10. Stability and reactivity

10.1 Reactivity

Can react with acids and strong oxidising agents

10.2 Chemical Stability

Product is stable under anticipated storage and handling conditions

10.3 Possibility of hazardous reactions

Exothermic reaction with water and acids

10.4 Conditions to Avoid

Humid atmospheres, which can cause caking and dissolution

10.5 Incompatible materials

Acids, alkaline sensitive materials

10.6 Hazardous decomposition products

No known hazardous decomposition products known

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity:	N/A
Skin corrosion/irritation:	Classified as corrosive to skin
Serious eye damage/irritation:	Classified as corrosive to eyes
Germ cell mutagenicity:	N/A
Respiratory or skin sensitisation:	May cause respiratory system irritation
Carcinogenicity:	N/A
Reproductive toxicity:	N/A
STOT-repeated exposure:	N/A

11.2 Other information

No other information

12. Ecological information

12.1 Toxicity

Not classified as an environmental hazard.

Data has been extrapolated from raw materials. Note that any adverse effects to the environment will derive from short term local changes to pH and negligible increases in salinity. Powder mixture dissociates readily into sodium, carbonate and silica ions in the environment. The ions originally exist in nature, and their concentrations in the environment are dependent on various factors, such as geological parameters, weathering and human activities. Therefore, there is a continuous source of all ions into the environment and have been measured extensively in ecosystems

12.2 Persistence and degradability

Rapid biodegradation:	Inorganic elements:
In water:	Quickly dissociates
In soil:	Soluble, mobile, ionization/neutralisation
In sediment:	Soluble, mobile, ionization/neutralisation

12.3 Bio accumulative Potential

Not bio accumulative (inorganic elements that in water dissociate into carbonate, silica and sodium ions, which do not accumulate in living tissues)

12.4 Mobility in Soil

Neutralised by soil and organic acids, breaks down into natural elements

12.5 Results of PBT and vPvB Assessment

The mixture is not identified as a PBT or vPvB substance

This substance Is not considered to be persistent, bioaccumulating and toxic

12.6 Other Adverse Effects

No other adverse effects are identified

13. Disposal considerations

13.1 This material, if discarded as produced, is to be treated as controlled waste. Special disposal required according to local regulations.

Dilute with plenty of water at a ratio of 1 part powder to 25 parts water. Solution can also be neutralised with acid.

Empty contaminated packings thoroughly and rinse. They can be recycled after thorough and proper cleaning. If heavily soiled or disposal judged as necessary, dispose to landfill in accordance with the Directive on waste 2008/98/EC.

Alkaline resistant containers to be used for contaminated packaging, packaging should be rinsed and recycled where possible. Dilute washings should be recycled where possible.

14. Transport information

14.1 UN Number

UN 3262

14.2 UN proper shipping name

Corrosive Solid, Basic, N.O.S.

14.3 Transport hazard class(es)

8

14.4 Packing group

III

14.5 Environmental hazards

None

14.6 Special precautions for user

No special precautions

14.7 Transport in bulk according to Annex II of MAPOL73/78 and the IBC Code

N/A

15. Regulatory information

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

Water hazard class:	WGK 1, VwVwS (Germany)
Ozone depleting substance (EC No 2037/2000):	N/A
Persistent organic pollutants (EC No 850/2004):	N/A
Export and import of dangerous chemicals (EC No 689/2008):	N/A
COMAH/ Seveso II categories or named substance:	N/A
REACH Authorisations and/or Restrictions:	N/A
Any other relevant Safety, health and environmental regulations:	N/A

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out

16. Other information

16.1 Key (or legend):

PPE:	Personal Protective Equipment
IOELV:	Indicative Occupational Exposure Limit Values
TWA:	Time Weighted Average
WEL:	Workplace Exposure Limit
LC50:	Lethal Concentration affecting 50% of a sample population
EC50:	Effective Concentration affecting 50% of a sample population

16.2 Further Information

16.2.1 To our best present knowledge, the information given is correct and complete as of the date of this document and is given in good faith but without warranty, either expressed or implied, nor do we accept any liability in relation to this information or its use. The user must determine the suitability of the product for the required use. This version of the SDS supersedes all previous versions.

16.2.2 Literature references

†Determined using the CIPAC MT 186 method, Handbook K

European Chemicals Agency:
http://echa.europa.eu/web/guest/information-on-chemicals/registered-substances

HSE – EH40:2005 Workplace Exposure Limits:
http://www.hse.gov.uk/pubns/priced/eh40.pdf

NLM – Toxicology Data Network:
https://www.nlm.nih.gov/

Human and Environmental Risk Assessment on Ingredients of Household Cleaning Products:
http://www.heraproject.com

SEWRPC Community Assistance Planning Report No. 316:
http://www.sewrpc.org/SEWRPCFiles/Environment/RootRiverWshedRestorationPlan/CAPR-316- APPENDIX-E-DRAFT_05-01-13_MTG-00211016.pdf

Some data has been derived from constituent safety datasheets.

16.3 Appropriate training for workers:

Training for product handling is recommended

16.4 Classification method:

CLP classification, CHIP classification