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SAFETY DATA SHEET

This Safety Data Sheet has been compiled in accordance with Article 31 of REACH (Requirements for Safety Data Sheets) and Annex II of REACH, particularly as amended by Commission Regulation (EU) No.1907/2006, No.1272/2008 and No.453/2010.

Number of revision: 2

Date of issue: May 2015

SECTION 1: Identification of product and company

1.1 Product identifier

BRILLMAX

For REACH purposes this product is a mixture.

1.2 Relevant identified use

A solid abrasive compound for finishing of metallic materials, intended for use by application to a rotating wheel or mop.

1.3 Details of supplier of SDS

Lea Manufacturing Company, Unit 1,
Tongue Lane Industrial Estate, Fairfield, Buxton,
Derbyshire SK17 7LN, United Kingdom

Telephone:

01298-25335

(0044-1298-25335 outside UK)

Fax:

01298-79945

(0044-1298-79945 outside UK)

E-mail:

info@lea.co.uk

1.4 Emergency telephone

01298-25335 (only available during office hours 08:20-17:00 Monday-Thursday & 08:20-12:30 Friday, UK time).

SECTION 2: Possible hazards

2.1 Classification of the mixture

This product does **NOT** meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. However, a Safety Data Sheet is supplied on request as the product contains components for which there are Community Workplace Exposure Limits.

The Safety Data Sheet also serves to communicate information down the supply chain in accordance with Article 32 of REACH.

2.2 Label elements

Hazard Pictograms: none required
Risk Phrases: none required

Safety Phrases:

S24 and **S25** are relevant. For industrial and professional users (as distinct from consumers, who do not receive the SDS) they are given in full in Section 7.1 of this SDS in order to avoid the need to print them on the label.

2.3 Other Hazards

Use of the product may generate dust, which is not classified as harmful but has a Workplace Exposure Limit. Experience shows that tendency for the dust to become airborne is limited because it is wetted with wax. Dust hazard from foreseeable use of the product is therefore minimal, but it is recommended that appropriate precautions be taken by the user, for more information please refer to Section 8.

SECTION 3: Composition/information on ingredients

For REACH classification purposes this product is a **mixture**. It consists of particulate Aluminium Oxide, Barium Sulphate and Magnesium Silicate abrasives suspended in a solid binder of naturally occurring lipids and hydrocarbon waxes. No registration number is given as the product does not contain any substances that presents a hazard to health or environment, in concentrations equal or greater than those laid down by Regulation (EC) No. 453/2010; however Aluminium Oxide, Barium Sulphate and Magnesium Silicate are shown because they have Workplace Exposure Limits (*refer to section 8*).

Component	CAS Number	EC Number	REACH Number	Index No.	Concentration
Aluminium Oxide	1344-28-1	215-691-6	01-2119529248-35-xxxx	-	55 – 65 %
Barium Sulphate	231-784-4	7727-43-7	01-2119491274-35-xxxx	-	6 – 8 %
Magnesium Silicate	1348-88-0	215-681-1	01-2119556793-27-xxxx	-	3 – 5 %

Classification under REACH	N/A
Symbol letters	N/A
R phrases	N/A

This product contains no components of animal origin.

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation	If exposed to excessive levels of dust, remove to fresh air.
Eye contact	Flush with water for 15 min, also under eyelids. Seek medical advice.
Skin contact	Wash with plenty of soap and water.
Ingestion	Product is non-toxic. Drink large quantity of water, do not induce vomiting.
Further advice	No delayed effects are expected. Removal of clothes and shoes is not necessary. Personal protective equipment for first aid responders is not necessary

4.2 Symptoms and effects

Severe inhalation	May result in shortness of breath
Eye contact	May result in redness or swelling

SECTION 5: Fire fighting measures

5.1 Suitable extinguishing media	:	CO ₂ , water fog / dry powder
Unsuitable extinguishing media	:	Water jet

5.2 Specific exposure hazards, combustion products etc.

This product is combustible, but not flammable. Experience shows that if ignited it will burn slowly with a smoky flame. In a large fire, or in an enclosed space, the resulting smoke could be a hazard. Burning creates carbon dioxide, and if burnt in a restricted supply of air there may also be potential for the creation of carbon monoxide.

5.3 Special advice for firefighters

Breathing apparatus should be worn.

SECTION 6: Accidental release measures

6.1 Personal precautions

- 6.1.1 For non-emergency personnel : The product is a waxy solid and in the event of spillage or accidental release there is unlikely to be a significant dust hazard, or any need for provision of ventilation or respiratory protection. Minimise skin contact, avoid eye contact, and remove ignition sources.
- 6.1.2 For emergency responders: There are no special requirements for personal protection or suitable protective fabrics.

6.2 Environmental precautions

- 6.2.1 Although the product is non-toxic and partly biodegradable, it is still desirable that spillage should be kept away from drains, water, and soil. See also Section 12 of this SDS 'Ecological Information'.
- 6.2.2 There is no need to alert the neighbourhood in the event of a spillage.

6.3 Methods for cleaning up

- 6.3.1 Spilt product can be picked up for re-use, reclamation or proper disposal.
- 6.3.2 No particular precautions are required other than those applicable to normal handling.

SECTION 7: Handling and storage

For industrial and professional users, certain precautionary statements are given in this section in order to avoid the need to print them on the label.

7.1 Precautions for safe handling

The product is not hazardous, and no special provisions are required other than normal good housekeeping and precautions regarding hygiene, lifting, etc. Do not eat, drink or smoke in work areas, and wash hands after using or handling the product.

No Risk Phrases are required. However, Safety Phrases S24 (Avoid contact with skin) and S25 (Avoid contact with eyes) do apply. These precautions are recommended purely because of the mechanical effect of the abrasive content, and not because of any inherent toxicity or chemical property.

7.2 Conditions for safe storage, including any incompatibilities

The product should be kept away from direct sunlight and other sources of heat. No incompatibility is expected between the product and other substances in normal industrial use. However, contact with strongly oxidising materials should be avoided.

7.3 Specific end use

The product is used by applying it to a rotating wheel or mop, the heat of friction softening the wax binder and facilitating transfer of compound from bar to mop. The combination of rotating machinery and compound transfer has clear safety and cleanliness issues, and it is intended that operators will use their judgement and adopt safe working practices. Protective measures as described in Section 8 should be heeded, and care in the application of compound to the mop will help maintain cleanliness in the workplace.

See also Section 12 of this SDS 'Ecological Information'.

SECTION 8: Exposure controls and personal protection

8.1 Control parameters

8.1.1 National Limit Values

The only applicable control parameter is the concentration of airborne dust generated during use. The currently applicable parameter is the Workplace Exposure Limit (WEL).

None of the components of the product are classifiable as hazardous under REACH, and a Chemical Safety Report was not required. However Aluminium Oxide, Barium Sulphate and Magnesium Silicate may be released during use and these are subject to the Workplace Exposure Limits given below. The values shown are taken from the HSE Guidance Notes "Workplace Exposure Limits" (reference EH40/2005, amended 2011).

8.1.2 Occupational Exposure limit values

Aluminium Oxide	WEL (8hr TWA)
Total inhalable dust	10 mg/m ³
Respirable dust	4 mg/m ³

Barium Sulphate	WEL (8hr TWA)
Total inhalable dust	10 mg/m ³
Respirable dust	4 mg/m ³

Magnesium Silicate	WEL (8hr TWA)
Total inhalable dust	1 mg/m ³
Respirable dust	-

8.1.3 Information on monitoring procedures

The current recommended monitoring procedure is Personal Sampling, in accordance with the HSE booklet "*General methods of sampling and gravimetric analysis of respirable and total inhalable dust*" (reference MDHS 14/3). This procedure gives a result in milligrams of dust per cubic metre, which relates directly to the published WEL standards.

8.2 Exposure controls

8.2.1 Engineering controls

Local Exhaust Ventilation should be provided to maintain exposure below the WEL during use. Where LEV is not available, protective equipment should be employed as described in Section 8.2.2:

8.2.2 Individual protection measures

- | | | |
|------------------------|---|--|
| Respiratory protection | : | A disposable dust mask is adequate. |
| Hand protection | : | Canvas gloves are desirable, for protection primarily against rotating machinery and risk of abrasion. |
| Eye protection | : | Goggles or safety spectacles. |
| Skin protection | : | No further skin protection should be necessary but a barrier cream may be advisable for individuals with sensitive skin. |
| General | : | Overalls should be worn, and changed when contaminated. |

8.2.3 Environmental exposure controls

Other than keeping away from drains, water, and soil, there are no specific requirements.

SECTION 9: Physical and chemical properties

- | | | |
|--------------|---|--------------------------------|
| Appearance | : | Solid waxy bar coloured yellow |
| Odour if any | : | Slight and soap-like |

Odour threshold	:	More perceptible when warm
pH	:	Not applicable
Melting point	:	> 52°C
Boiling point/range	:	Not applicable; product is solid
Flash point	:	Not applicable; product is non-flammable
Evaporation rate	:	Not applicable
Flammability	:	Not applicable; product is non-flammable
Flammability limits	:	Not applicable; product is non-flammable
Vapour pressure	:	Negligible at normal ambient conditions
Vapour density	:	Not applicable; product is not volatile
Relative density at 20°C	:	Approximately 1.7
Water solubility	:	Insoluble
Partition coefficient n-octanol/water :		> 3 (estimated) for wax binder system
Auto-ignition temp	:	> 350°C
Decomposition temp	:	Unknown
Viscosity	:	Not applicable; product is a solid at room temperature
Explosive properties	:	Not applicable; product is not explosive
Oxidising properties	:	Not applicable; product is non-oxidising

SECTION 10: Stability and reactivity

10.1 Reactivity

Experience shows that neither the product nor any of its components have the potential for hazardous reaction under normal conditions of use or storage, on contact with water, or if released into the environment.

10.2 Chemical stability

Under storage at normal ambient temperatures (0°C to 30°C) the product is stable.

10.3 Possibility of hazardous reactions

Experience shows that the product has no potential to react or polymerise, release excess pressure or heat, or create other hazardous conditions.

10.4 Conditions to avoid

The product may become visibly soft if stored at temperatures above normal ambient. This renders the product unusable but has no safety implications. Experience shows that pressure, light, shock, static discharge, vibration or other physical stresses are **not** capable of producing a hazardous situation.

10.5 Incompatible materials

Contact with highly oxidising materials should be avoided.

10.6 Hazardous decomposition products

Decomposition through combustion will produce carbon dioxide, smoke, and possibly carbon monoxide if burnt in a limited supply of air.

SECTION 11: Toxicological information

Neither the product nor its components are toxic, but experience shows the product is capable of causing skin or eye irritation. This is a purely mechanical effect due to the abrasive content, and is not due to any inherent toxicity or chemical property.

SECTION 12: Ecological information

12.1 Toxicity

Neither the product nor its components are toxic.

12.2 Persistence and degradability

The wax binder is readily biodegradable. The abrasives are not biodegradable but are not harmful to the environment.

12.3 Bioaccumulative potential

None of the components have potential to bioaccumulate.

12.4 Mobility in soil

The wax binder components being readily biodegradable have little or no potential to migrate into the groundwater. The solid abrasives do have potential to migrate but they are chemically inert and present no environmental hazard. Quantitative information is not available.

12.5 Results of PBT and vPvB assessment

A chemical safety report was not required so this section is not applicable.

12.6 Others

The product has no potential for ozone depletion.

SECTION 13: Disposal considerations

13.1 Product / packaging disposal

The fresh product, its packaging, and its residues from foreseeable use, present no hazards and can be disposed of as Non-Hazardous Waste.

13.2 Waste treatment

No special considerations are required. The product and its residues can be landfilled or incinerated as Non-Hazardous Waste. Contaminated packaging can be landfilled or incinerated as Non-Hazardous Waste, and uncontaminated cardboard packaging can be recycled.

13.3 Sewage disposal

In the unlikely event of the product finding its way into sewage, no special considerations are required.

13.4 Other disposal recommendations

The user should refer to the local, national and European provisions regarding waste disposal. See also Section 12 of this SDS 'Ecological Information'.

SECTION 14: Transport information

14.1	UN number	Not applicable
14.2	UN proper shipping name	Not applicable
14.3	Transport hazard class(es)	Not applicable
14.4	Packing group	Not applicable
14.5	Environmental hazards	Not applicable
14.6	Special precautions for user	Not applicable
14.7	Transport in bulk according to Annex II of MARPOL73/78 and the IBC code	Not applicable
14.8	Other relevant information	The product is not classified as a Dangerous Good for any mode of transport.

SECTION 15: Regulatory information

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

EU regulations:	Not applicable
Authorisations and/or restrictions on use	
Authorisations:	Not applicable
Restrictions on use:	Not applicable

Other EU regulations:	Not applicable
Information according to 1999/13 about limitation of emissions of volatile organic compounds (VOC guideline):	Not applicable

15.2 Chemical Safety Assessment

A Chemical Safety Assessment was not necessary for this product. No health and safety information is necessary on the label.

See also Section 12 of this SDS 'Ecological Information'.

SECTION 16: Other information

Data changed compared with previous version

Section

- 1 Product identified as a mixture (was formerly a preparation), addition of office hours to contact details
- 2 No significant change
- 3 Product identified as a mixture (was formerly a preparation)
- 4 Symptoms and effects added
- 5 No significant change
- 6 No significant change
- 7 Expansion of handling information
- 8 No significant change
- 9 New information provided on physical and chemical properties
- 10 New statements regarding stability and potential for hazardous reaction
- 11 No significant change
- 12 New statements regarding mobility in soil and results of PBT and vPvB assessment
- 13 New statements regarding disposal
- 14 No significant change
- 15 No significant change
- 16 No significant change

Sources of key data used to compile this SDS

CLP Regulation reference EC1272/2008

HSE Guidance Notes "Workplace Exposure Limits" reference EH40/2005, amended 2011

European Chemicals Agency "Guidance on the compilation of safety data sheets" version 2.1, February 2014

Croner's reference publications

Raw material suppliers' own Safety Data Sheets and technical information.

Risk phrases : No Risk Phrases are required for this product.

Safety phrases : S24: Avoid contact with skin
S25: Avoid contact with eyes

Training advice

It is recommended that all end users of this product seek guidance from the supplier regarding correct handling and use.

Exposure scenarios

No exposure scenarios are required because this product is not the subject of a Chemical Safety Report. No exposure scenarios, or associated information, have been communicated to us in the health and safety information from our raw material suppliers.

Disclaimer

The information given in this SDS is based upon the present state of our knowledge. The SDS has been compiled for, and is intended solely for, the product identified in Section 1.1.

WARRANTY

We warrant our goods to conform to our standard specifications. This Warranty is in lieu of any and all other warranties or guarantees and our obligation hereunder for breach of such warranty is limited to either refund of the purchase price or replacement of said goods as we may elect.

We believe that the statements, technical information, and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind except as specified above. Beyond that specified above, we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of the use of, or inability to use, our goods. Their quality and suitability for any particular purpose or use should be confirmed by the user's own tests.

The product will remain fit for use for a minimum of five years provided normal care is taken to ensure appropriate storage conditions and that any special storage conditions given on the product labels are adhered to at all times.