



MARBLE POLISHING POWDER

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SAFETY DATA SHEET

according to 1907/2006/EC, Article 31 (REACH)

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

1.1 Identification of the substance or preparation

Commercial name: Marble Polishing Powder

1.2 Use of the substance / preparation

Intended Use: Polishing for marble and stone (solid to use on automatic machines, powder for floors polishing to be used by hand or with suitable machine).

Uses advised against: Not recommended for granite.

1.3 Company identification

Name Granite Tool Supplies (Wholesale) Ltd
Full Address / Country Unit LB4 Landermere Hall Farm
Walton Road, Thorpe-le-Soken,
Essex CO16 0NJ, GB
Tel. +44 (0)1255 863139
Company Registration No: 07201544
e-mail address of the competent person responsible for the Safety Data Sheet:
info@granitertools.co.uk

1.4 Emergency telephone: +44 (0)1255 863139 - 09:00-17:00 GMT.

2. HAZARDS IDENTIFICATION

2.1 Substance/Preparation Classification.

This product is dangerous under Regulation (CE) 1272/2008 (CLP) (and subsequent amendments). Therefore, this product requires a safety data sheet according to the Regulation (EC) 1907/2006 and subsequent amendments. You can find further information on health and/or environmental hazards in sections 11 and 12 of this sheet.

2.1.1 1272/2008 (CLP) regulation and following amendments and adjustments

Classification and warning informations:

Acute Tox. 4 H302 + H312

2.1.2 67/548/CEE directive and following amendments and adjustments

Warning symbols: Xn

Phrases R: 21/22

Full text of risk phrases (R) and hazard statements (H) are given in section 16.

2.2 Label Elements

Danger labeling under Regulation (CE) 1272/2008 and following amendments and adjustments.

Symbol(s):



Signal Word(s): Warning

CLP Hazard statements:

H302+312 Harmful if swallowed or in contact with skin.

CLP Precautionary statements:

P264 Wash the hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.



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P301+P312 IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.

Contains:

Potassium trihydrogen dioxalate

2.3 Other hazards

This document is specific to the product supplied. A comprehensive assessment to determine the degree of danger, must consider also the material that is abraded.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substance

Not applicable information.

3.2 Mixtures

Contains:

Name.	Conc. %.	Classification 67/548/EEC.	Classification 1272/2008 (CLP).
Potassium trihydrogen dioxalate			
CAS. 127-96-8	60 - 80	Xn R21/22, Nota A	Acute Tox. 4 H312, Acute Tox. 4 H302, Nota A
CE. 204-874-6			
INDEX. 607-007-00-3			
Nr. Reg. 01-2119979573-22-0000			

T+ = Very toxic (T+), T = Toxic (T), Xn = Harmful (Xn), C = Corrosive (C), Xi = Irritant (Xi), O = Oxidizing (O), E = Explosive (E), F+ = Extremely flammable (F+), F = Highly flammable (F), N = Dangerous for the environment (N)

The complete text of -R- phrases is specified in section 16.

4. FIRST AID MEASURES

4.1. Description of first aid measures

EYES: remove any contact lenses. Wash immediately with plenty of water for at least 15 minutes, opening her eyelids. Consult a doctor if the problem persists.

SKIN: Wash immediately with plenty of water. Remove contaminated clothing. If irritation persists, seek medical attention. Wash contaminated clothing before using them again.

INHALATION: bring the person outdoors. If breathing is difficult, seek medical advice immediately.

INGESTION: Obtain immediate medical attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person.

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

See section 11 for more detailed information on health effects and symptoms.

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

Seek medical attention when indicated at the paragraph 4.1.

See section 11 for more detailed information on health effects and symptoms.

5. FIREFIGHTING MEASURES

5.1. Extinguishing media

SUITABLE EXTINGUISHING MEDIA

Water fog, Carbon Dioxide (CO₂), foam, dry chemical, depending on the materials involved.

UNSUITABLE EXTINGUISHING MEDIA

None.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products (carbon oxide, toxic pyrolysis products, etc.). The product is combustible and, when the powders are dispersed in air in sufficient concentrations and in the presence of an ignition source, it can give explosive mixtures with air. The fire may grow or be further fueled by the solid, possibly leaking from the container when it reaches high temperatures or by contact with sources of ignition.

OXALIC ACID SALTS: Combustion may form caustic fumes of potassium oxide.



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5.3. Advice for firefighters.

GENERAL INFORMATION

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Always wear full fire prevention. Collect extinguishing water which must not be discharged into drains. Discharge the contaminated water according to applicable regulations.

EQUIPMENT

Normal clothing to fight the fire, like an open circuit breathing apparatus with compressed air (EN 137), complete with flame retardant (EN469) flame-resistant gloves (EN 659) and boots Firefighter (HO A29 or A30).

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures.

Avoid dust formation by spraying with water, if there are no contraindications. In the case of airborne dust adopt respiratory protection. For information on the risks about health and environment, protection of the respiratory track, ventilation and equipment of protection, please refer to other sections of this sheet. These indications are valid both for the employees that for the emergency team.

6.2. Environmental precautions.

Should not be released into the environment. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3. Methods and material for containment and cleaning up.

Collect mechanically the leaked product with anti-sparking machines and place in containers for recovery or disposal. Discard the residue with water spray if there are no contraindications. Ensure adequate ventilation of the area affected by the spillage. Verify any incompatibilities for the material of the containers in section 7. You have to make the disposal of contaminated material in accordance with the provisions of section 13.

6.4. Reference to other sections.

For personal protection, see section 8. For waste disposal, see section 13.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling.

Handle the product after consulting all other sections of this MSDS. Avoid the dispersion of the product in the environment. Do not eat, drink or smoke while handling it. Remove contaminated clothing and protective equipment before entering areas where you eat.

7.2. Conditions for safe storage, including any incompatibilities.

Store only in the original container. Store in closed containers in well-ventilated areas, away from direct sunlight. Keep far away from incompatible substances, see section 10.

7.3. Specific end use(s).

The identified uses for this product are detailed in Section 1.2.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters:

Name	Standard	Country	TWA/8h		STEL/15min	
			mg/m ³	ppm	mg/m ³	ppm
ALUMINA	TLV	CH	3		Respir	
	TLV-ACGIH		1	0,9		
Potassium trihydrogen dioxalate	OEL			1		2

DNEL for workers:

Local effects - acute: DNEL (derived not effect level) dermal: 0.69 mg / cm²

Systemic effects - long term: DNEL (derived not effect level) dermal: 2.29 mg / kg bw / day

Systemic effects - long term: DNEL (derived not effect level) inhalation: 4.03 mg / m³

DNEL for the general population:

Local effects - acute: DNEL (derived not effect level) Dermal: 0.35 mg / cm²

Systemic effects - long term: DNEL (derived not effect level) Dermal: 1.14 mg / kg bw / day

Systemic effects - long term: DNEL (derived not effect level) Oral: 1.14 mg / m³

PNEC water (freshwater): 0.1622 mg / L

PNEC water (sea water): 0.01622

PNEC water (intermittent spills): 1,622 mg / L



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8.2. Exposure controls.

The use of appropriate technical measures should always take priority over personal protection equipment. Ensure good ventilation at the workplace through effective local aspiration. While using the product refer to the label's information for hazard details. When selecting personal protective equipment if necessary, request advice from the chemical supplier. The personal protective equipment must comply with regulations here described. During use, refer to the instructions of the machines, and to the national regulations. Using in machine, depending on the material being processed, may require special precautions to protect operators.

Must be keep attention to the characteristics of the processed material and cooler liquid, because much of the dust particles origin itself, during use, from them. So installing, where necessary, appropriate protections and devices. Observe personal and professional hygiene measures established by the local service of prevention and protection.

HAND PROTECTION

In case there is a prolonged contact with the product, it is recommended to protect your hands with gloves and Category III (ref. Directive 89/686/EEC and standard EN 374), such as PVC, neoprene, nitrile, or equivalent. Final selection of glove material must be considered work: degradation, breakage times and permeation. In the case of mixture the resistance of protective gloves should be checked before use, as it can be unpredictable. The gloves have a time limit depends on the duration of exposure.

EYE PROTECTION

You should wear protective airtight goggles (ref. Standard EN 166). Should there be a risk of exposure to splashes or squirts during work performed, should be provided adequate protection of the mucous membranes (mouth, nose, eyes) in order to prevent accidental absorption.

SKIN PROTECTION

Wear work clothes with long sleeves and safety shoes for professional use category II (ref. Directive 89/686 / EEC and standard EN ISO 20344). Wash with soap and water after removing protective clothing.

RESPIRATORY PROTECTION

We recommend the use of a facial mask filter type P (ref. Standard EN 149), or equivalent device, the class (1, 2 or 3) and the actual need to be defined depending on the outcome of the risk assessment.

ENVIRONMENTAL EXPOSURE CONTROLS.

Emissions from production processes, including those from ventilation should be checked for the purposes of compliance with environmental protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance: Solid or powder

Colour: Yellow

Odour: Typical

Odor Threshold: Not determined

pH: Not determined

Melting point (°C): Not determined

Initial boiling point and boiling range: Not determined

Flash point: Not determined

Evaporation Rate: Not determined

Gas / Solid Flammability: Not determined

Upper/Lower Flammable Limits (Approximate volume % in air): Not determined

Explosive properties: Not determined

Vapour pressure: (20 °C) Not determined

Vapour density: Not determined

Specific gravity: Not determined

Solubility: Not determined

Partition Coefficient (N-Octanol/Water): Not determined

Auto Ignition Temperature (°C): Not determined

Decomposition temperature (°C): Not determined

Viscosity: Not determined

Oxidizing properties: Not determined

9.2. Other information.

None.

10. STABILITY AND REACTIVITY

10.1. Reactivity.



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There are no known reactivity hazards associated with this product at standard conditions.

10.2. Chemical stability.

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions.

The product is stable in normal conditions of use and storage.

10.4. Conditions to avoid.

None. Follow the usual precautions against chemicals.

10.5. Incompatible materials.

None.

10.6. Hazardous decomposition products.

In the event of thermal decomposition or fire, vapours potentially dangerous to health may be released.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects.

In the absence of experimental toxicological data on the product itself, the potential risks of the product to health were evaluated according to properties of substances, according to criteria provided by the reference standard for the classification. Consider, therefore, the concentration of each substance dangerous possibly mentioned in sect. 3, to evaluate the toxicological effects from exposure to the product.

Acute Effects: This product is harmful if absorbed through the skin and if swallowed. May cause irritation of the site of contact usually accompanied by an increase in skin temperature, swelling and itchiness. Even small amounts ingested can cause serious health problems (stomach pain, nausea, vomiting, diarrhea).

The product may cause mild irritation of the mucous membranes and upper respiratory tract, and eyes. Exposure symptoms may include: stinging and irritated eyes, mouth, nose and throat, coughing, difficulty breathing, dizziness, headache, nausea and vomiting.

Potassium trihydrogen dioxalate

LD50 (Oral): 375 mg/kg bw (according to the method of Smyth, rat)

LD50 (Dermal): 20000 mg/kg bw (Pesticide Action Network, North America, rabbit)

12. ECOLOGICAL INFORMATION

Handle it according to good working practices. Avoid litter. Do not contaminate soil, sewers and waterways. Inform the competent authorities, should the product reach waterways or sewers or contaminate soil or vegetation.

12.1. Toxicity.

Potassium trihydrogen dioxalate:

Acute/Prolonged toxicity to aquatic plants

Toxicity threshold (8 days) for freshwater algae: 80.0 mg/l

Toxicity to terrestrial plants

EC50 (72 h) for terrestrial plants: 8 mM.

Potassium trihydrogen dioxalate:

EC50 (48h): 162,2 mg/l for freshwater invertebrates: (OECD 202, Daphnia)

LC50 (96h): 160 mg/l for freshwater fish: (Deutsche Einheitsverfahren zur Wasser, Abwasser und Schlamm-Untersuchung)

12.2. Persistence and degradability.

Potassium trihydrogen dioxalate is readily biodegradable, meeting the 10-d window. The biodegradation in seawater occurs at the same rate. Also the anaerobic biodegradation occurs rapidly.

12.3. Bioaccumulative potential.

Not relevant for potassium trihydrogen dioxalate because this substance is readily biodegradable and highly soluble in water, and LogKow is negative.

12.4. Mobility in soil.

Potassium trihydrogen dioxalate: transport through the medium is rate-limiting. Degradation after 30 days at 20°C is up to 73% (based on CO₂ evolution). Potassium trihydrogen dioxalate is easily biodegradable in soil.



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12.5. Results of PBT and vPvB assessment.

Based on the available data, the product does not contain PBT or vPvB percentage greater than 0.1%.

12.6. Other adverse effects.

No other adverse effects are identified.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods.

Recycle if possible. Product residues should be considered special waste. The hazard level of waste containing this product should be evaluated according to applicable regulations. Disposal should be entrusted to an authorized waste management, in compliance with national and local applicable regulations.

CONTAMINATED PACKAGING

Dispose of waste and residues in accordance with local authority requirements.

14. TRANSPORT INFORMATION

This substance is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

15. REGULATORY INFORMATION

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

Restrictions relating to the product or contained substances based on Annex XVII, Regulation (EC) 1907/2006.

None.

Candidate List substances(Art. 59 REACH).

None.

Substances Subject authorization (annex XIV REACH).

None.

15.2. Chemical Safety Assessment

A Chemical Safety Assessment has been carried out for the substance(s) that makes/make up this material or for the material itself, here below:

potassium trihydrogen dioxalate.

16. OTHER INFORMATION

Text of -H- phrases quoted in section 2-3 of the sheet.

Acute Tox. 4: Acute toxicity, class 4

H302+312 Harmful if swallowed or in contact with skin.

H302 Harmful if swallowed.

Text of -R- phrases quoted in section 2-3 of the sheet.

R21/22 Harmful in contact with skin and if swallowed.

LEGEND:

- ADR: European Agreement concerning the transport of dangerous goods by road
- CAS NUMBER: Number of the Chemical Abstract Service
- EC50: Concentration that gives effect to 50% of the population subject to testing
- EC NUMBER: ID number in ESIS (European archive of existing substances)
- CLP: Regulation EC 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonised System for the classification and labeling of chemicals
- IATA DGR: Regulation for the transport of dangerous goods by the International Air Transport Association
- IC50: Concentration of immobilization of 50% of the population subject to testing
- IMDG: International Maritime Code for Dangerous Goods
- IMO: International Maritime Organization
- INDEX NUMBER: ID number in Annex VI of the CLP
- LC50: Lethal concentration, 50%
- LD50: Lethal dose, 50%
- OEL: Occupational Exposure Level
- PBT: Persistent, bioaccumulative and toxic according to REACH



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- PEC: Predicted Environmental Concentration
- PEL: predictable level of exposure
- PNEC: Predicted No Effect Concentration
- REACH Regulation EC 1907/2006
- RID: Regulations concerning the international carriage of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration which should not be exceeded during any time of occupational exposure.
- TWA STEL: Short Term Exposure Limit
- TWA: Time-weighted Average limit value
- VOC: Volatile Organic Compound
- VPvB: Very persistent and very bioaccumulative according to REACH
- WGK: Water hazard class (Germany).

GENERAL BIBLIOGRAPHY:

1. Directive 1999/45/EC and following amendments
2. Directive 67/548/EEC and following amendments and adjustments
3. Regulation (EC) 1907/2006 (REACH) of the European Parliament
4. Regulation (EC) 1272/2008 of the European Parliament (CLP)
5. Regulation (EC) 790/2009 of the European Parliament (I Atp. CLP)
6. Regulation (EC) 453/2010 of the European Parliament
7. Regulation (EC) 286/2011 of the European Parliament (II Atp. CLP)
8. Regulation (EC) 618/2012 of the European Parliament (III Atp. CLP)
9. The Merck Index. Ed. 10
10. Handling Chemical Safety
11. Niosh - Registry of Toxic Effects of Chemical Substances
12. INRS - Fiche Toxicologique
13. Patty - Industrial Hygiene and Toxicology
14. N.I. Sax - Dangerous properties of Industrial Materials-7 Ed., 1989
15. ECHA web site

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product .

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Changes compared to the previous review.

The following sections were modified:

02 / 08 / 11 / 16.