

SAFETY DATA SHEET

SECTION 1: PRODUCT IDENTIFICATION

Product Identifier: Walnut Shell

Recommended Use: Blast Cleaning, deburring, deflashing, polishing

Restrictions on Use: None

Supplier Identifier: Bell & Mackenzie Co. Ltd. 500 Sherman Ave., N., P.O. Box 844 LCD #1 Hamilton, Ontario L8N 3N9 Telephone #1-905-527-6000 or 1-888-794-5665

Emergency Telephone Number: See above

SECTION 2: HAZARD(S) IDENTIFICATION

Hazard Classification: Not Classified

Hazard Statements:

Walnut Shell does not meet the criteria for classification to OSHA (*Occupational Safety and Health Administration*) Hazard Communication Standard 2012 1900.1200 (HCS 2012)

Precautionary Statements:

Direct contact with eyes may cause temporary irritation. Walnut Shell may contain trace amounts of walnut proteins that have been known to cause allergic reaction.

Label Elements:

Hazard Pictogram: None

Signal Word: None

Hazard Statement: Walnut Shell does not meet the criteria for classification to OSHA Hazard Communication Standard 2012 1900.1200 (HCS 2012)

Prevention: Observe good industrial hygiene practices

Response: Wash hands thoroughly after handling

Storage: Store in a well-ventilated place. Keep container tightly closed.

Disposal: Dispose of contents and container in accordance with all local, provincial, federal, regional, national and international regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight % **
Natural processed Walnut Shell	n/a	100

** The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200

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SECTION 4: FIRST AID MEASURES

Inhalation: Move person to fresh air and get medical attention if symptoms develop or persist.

Skin Contact: Wash exposed skin with soap and water. Get medical attention if irritation develops or persists.

Eye Contact: Immediately flush eyes thoroughly with plenty of water or an ophthalmic saline solution. Do not rub eyes. If irritation persists, seek medical attention.

Ingestion: Rinse mouth with water. Get medical attention if symptoms occur.

Most Important Symptoms and Effects, Acute and Delayed: Direct contact with eyes or skin may cause temporary irritation. Walnut shell may contain trace amounts of walnut proteins that have been known to cause allergic reaction. Seek medical attention if you feel unwell.

Immediate Medical Attention and Special Treatment: Treat symptomatically. In case of accident or you feel unwell, seek medical advice (show the label or SDS where possible).

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing Media, Suitable: Water, Fog, Foam, Dry chemical powder. Carbon Dioxide (CO₂)

Extinguishing Media, Unsuitable: None

Specific Hazards Arising from the Product: None

Special Protective Equipment and Precautions for Fire-Fighters: Wear full protective clothing and use NIOSH (*National Institute for Occupational Safety and Health*) approved self-contained breathing apparatus.

Notes: If improperly handled or stored and/or exposed to an ignition source, this material may burn. High concentrations of airborne dust can explode if sufficient temperature and ignition source occurs. Proper grounding of all equipment is necessary to eliminate static electricity.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures: Wear appropriate clothing and respiratory protection (see Section 8).

Methods and Materials for Containment and Clean Up: Material may be collected by sweeping, using a shovel or vacuum and placed into proper containers. Use appropriate Personal Protection Equipment (PPE). Stop the flow of material, if this is without risk. Large spill areas should be flushed with water after product recovery into proper containers. Small spill areas should be surface cleaned thoroughly to remove residual contamination. Never return spills to original containers for re-use. Avoid discharge into drains, water courses or onto the ground.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling: Use good industrial hygiene practices. Use proper protection.

Conditions for Safe Storing: Store in appropriate containers and away from incompatible materials.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters: Follow standard monitoring procedures

Appropriate Engineering Controls: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain levels to an acceptable level.

Individual Protection Measures

Eye/Face Protection: Wear appropriate protective safety goggles with side shields where particles could cause eye injury. Use personal protective equipment as required.

Skin Protection: Maintain good personal hygiene practices that include washing exposed skin with soap and water and laundering work clothing that becomes dusty. Wear suitable protective clothing and suitable abrasive blaster's gloves.

Respiratory Protection: In case of insufficient ventilation use appropriate NIOSH certified respiratory protection.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Light brown granules

Odor: None

Odor Threshold: Not Available

pH (at 25°C in water): 4-6

Melting Point and Freezing Point: Not Available

Initial Boiling Point and Boiling Range: Not Available

Flashpoint: 380°F/193°C

Evaporation Rate: Not Available

Flammability (solid, gas): Not Flammable

Lower Flammability or Explosive Limit: Not Available

Upper Flammability or Explosive Limit: 470°F/243°C

Explosive Limit: Not Available

Vapor Pressure: Not Available

Vapor Density (air = 1): Not Available

Relative Density (water = 1): 1.2

Solubility in Water: Insoluble

Solubility in Other Liquids: Not Available

Auto-ignition Temperature: Not Available

Partition Coefficient: n-octanol/water: Not Available

Decomposition Temperature: Not Available

Viscosity: Not Available

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Not reactive under normal conditions of use.

Chemical Stability: This material is stable under normal conditions of use, storage and transport.

Possibility of Hazardous Reactions: No dangerous reaction known under conditions of normal use.

Conditions to Avoid: Contact with incompatible materials.

Incompatible Materials: None known

Hazardous Decomposition Products: None known

SECTION 11: TOXICOLOGICAL INFORMATION

Likely Routes of Exposure:

Inhalation: Inhalation is an unlikely route of exposure. No adverse effects are expected.

Ingestion: Ingestion is an unlikely route of exposure. Expected to be a low ingestion hazard.

Skin Contact: No adverse effects are expected.

Eye Contact: Particulates may cause temporary irritation if direct contact with eyes.

Acute Toxicity: Walnut Shell may contain trace amounts of walnut proteins that have been known to cause an allergic reaction.

Calculated Overall Chemical Acute Toxicity Values

LC50 (inhalation)	LD50 (oral)	LD50 (dermal)
>5 mg/kg (dust and mist)	>2000 mg/kg	>2000 mg/kg

Skin Corrosion/Irritation: This product is not expected to cause skin corrosion or irritation based on available data. Prolonged skin contact may cause dryness, redness and/or cracking.

Serious Eye Damage/Irritation: This product is not expected to cause serious eye damage or irritation based on available data. Temporary irritation may be caused with direct contact with eyes.

STOT (Specific Target Organ Toxicity) – Single Exposure: Not Classified as an STOT

Aspiration Toxicity: This product is not expected to cause aspiration toxicity based on available data.

STOT (Specific Target Organ Toxicity) – Repeated Exposure: Not Classified as an STOT

Respiratory and/or Skin Sensitization: Walnut shells may contain trace amounts of walnut proteins that have been known to cause allergic reaction.

Carcinogenicity: This product is not classified as a carcinogen.

Mutagenicity: No data is available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Reproductive Toxicity: This product is not expected to cause reproductive or developmental effects.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: Walnut shell is not known to be ecotoxic however, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Bioaccumulative Potential: No data is available

Persistence and Degradability: Very slow if exposed to moisture and other organic materials. No

known acute toxicity in water, waste water or soil.

Mobility in soil: No data is available

This product is not expected to present an environmental hazard.

SECTION 13: DISPOSAL CONSIDERATIONS

This material must be disposed of in accordance with all applicable local, provincial/state and federal regulations in light of the contamination present. Local regulations may be more stringent than regional and national requirements. It is the responsibility of the waste generator to determine the toxicity and physical characteristics of the material to determine the proper waste identification and disposal in compliance with applicable regulations.

SECTION 14: TRANSPORT INFORMATION

This product is not regulated for transportation under the U.S. DOT, Canadian TDG, IMDG, or IATA Regulations.

SECTION 15: REGULATORY INFORMATION

Canada:

WHIMS Classification: Not a controlled product.

United States:

SARA/CERCLA: No components of this product are found at concentrations greater than or equal to 0.1% and are subject to the SARA/CERCLA reporting Requirements.

OSHA: Specifically Regulated Substances (29 CFR 1910.1001-1050). No components of this product are present at concentration greater than or equal to 0.1% and are identified as a carcinogen or potential carcinogen by OSHA.

Mexico:

Hazard Classification: 1-1-0

Carcinogen Status: No data available

Provincial, State, National or local emergency planning, community right-to-know or other laws, regulations or ordinances may be applicable—consult applicable provincial, state, national or local laws.

SECTION 16: OTHER INFORMATION

Hazardous Material Information System (HMIS):

Health 1

Flammability 1

Physical Hazard 0

National Fire Protection Association (NFPA):

Health 1

Flammability 1

Reactivity 0

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