Material Safety Data Sheet Mg-35 Industrial Abrasive



Section I: Product and Company Identification			
Product Name:	Mg-35, Mg35-10 and other filtered versi	ons of Mg-35	
Use:	Abrasive applications; lapping; polishing		
Manufacturer:	EnviroDiamond Technologies Inc.		
Address:	406-2067 Prospect Street, Burlington, C	Ontario, Canada	L7R IZ3
Telephone:	905-333-6287	Emergencies:	905-467-3341
Email:	GlobalSolutions@EnviroDiamond.com		

Section 2: Hazards Identification		
Emergency Overvi	ew	
Appearance:	Very fine grey powder	
Odor:	Faint odor	
Precautions:	CAUTION: Product may cause eye, skin and respiratory	
	irritation. Product dust may be irritating to eyes, skin and respiratory	
	system. Particle sizes range from 100 nanometers to 212	
	micrometers. Use personal protective equipment as required (See	
	Section 8 - Exposure Controls and Personal Protection).	
Environmental	Product is an inorganic solid, reactive only at low pH and non-toxic.	
Precautions:	1 Todact is all morganic solid, reactive only at low piri and non-toxic.	
Potential Health	a) Eyes: Irritating to eyes	
Effects:	b) Skin: May cause skin dryness and irritation	
	c) Inhalation: Irritating to respiratory system, resulting in coughing	
	and sneezing	
	d) Ingestion: Non-toxic	
	e) Chronic Exposure: Does not accumulate in the body	

Section 3: Composition/Information on Ingredients	
Composition	
Magnesium Oxide	>95%, CAS#: 1309-48-4
(MgO)	7 7 576, - C/ (3/1. 1507-10-1
Carbon (C)	1% - 3% in phases consisting of:
	a) amorphous, CAS#: 7782-42-5
	b) graphite, CAS#: 7782-42-5
	c) diamond, CAS#: 7782-40-3
Magnesium Aluminum	<1%, CAS#: 12068-51-8
Oxide (MgAl ₂ O ₄)	1%, CA3#. 12006-31-6
Iron Oxide (Fe ₃ O ₄)	<1%, CAS#: 1317-61-9
Aluminum Oxide	<1%, CAS#: 1344-28-1
(Al_2O_3)	
Amorphous Silica	<1%, CAS#: 7631-86-9
(SiO ₂)	

Section 4: First Aid Measures	
Eye Contact	If irritation occurs, immediately flush eyes with water for at least 10 minutes. Obtain medical attention.
Skin Contact	Not expected to cause a problem. However, if irritation occurs, flush affected area with water. If irritation persists, obtain medical attention.
Inhalation	May cause irritation of the upper respiratory passages. Inhalation of magnesium oxide may cause metal fume fever. Symptoms of metal fume fever include: cough, tightness of chest, sweating, headache, fever, muscle aches, nausea, vomiting and tiredness. If symptoms of irritation from exposure are experienced, remove victim to fresh air. Obtain medical attention.
Ingestion	Rinse mouth with and/or drink water if conscious. Obtain medical attention.

Section 5: Fire Fighting Measures		
Conditions of	Not Applicable. This product does not ignite	
Flammability	Not Applicable – This product does not ignite	
Firefighting Procedures	Use whatever appropriate methods are required for the fire	
The lighting Trocedures	surrounding the product.	
Flashpoint and limits	Not Applicable – This product does not ignite	
Upper Flammable Limit	Not Applicable – This product does not ignite	
Lower Flammable	Not Applicable – This product does not ignite	
Limit	Not Applicable — This product does not ignite	
Autoignition	Not Applicable – This product does not ignite	
Temperature	140t Applicable — This product does not ignite	
Hazardous	Not Applicable – This product does not ignite	
Combustion Products	Not Applicable — This product does not ignite	
Sensitivity to	No special sensitivity	
Mechanical Impact	140 special selisitivity	
Sensitivity to Static	Not Sensitive	
Discharge	1 AOC SELISICIAE	

Section 6: Accidental Release Measures		
Leak and Spill	Pick-up spills without creating airborne dust. Place material into a dry container and cover. Hold in sealed container for disposal.	
Procedures	Use personal protective equipment as required (See Section 8 - Exposure Controls and Personal Protection).	

Section 7: Handling and Storage		
Handling Procedures and Equipment	Avoid generation of and inhalation of dust. Clean area frequently to avoid dust build-up, preferably with a vacuum or wet cloth rather than dry sweeping. Wear applicable personal protective equipment as indicated in Section 8 – Exposure Controls and Personal Protection.	
Storage Requirements	Store in a dry area in sealed containers. Keep away from incompatible materials such as interhalogens and strong acids. Product is only very slightly soluble in water and reacts to form non-toxic magnesium hydroxide, which is detectable by measuring an increase in pH.	

Section 8: Exposure Controls/Personal Protection		
	Engineering controls may include process enclosure and/or local	
	exhaust ventilation to maintain dust concentrations below	
	allowable exposure limits. Local exhaust ventilation with or	
Engineering Controls	without process enclosure is important where large quantities are	
	handled, as in bagging operations. Isolating operations that involve	
	transferring of the product in its dry state is recommended to	
	minimize potential exposure to airborne particles.	
Personal Protection Equipment		
	If adequate engineering controls are not available, wear a respirator	
	approved for dusts/mists/fumes, as applicable. In conditions of	
Respiratory Protection	oxygen deficiency, or where airborne concentrations exceed 100	
	mg/m³, wear positive pressure or pressure demand supplied air	
	respiratory protection or SCBA.	
	Wear safety goggles or eye protection with side shields in high dust	
Eye Protection	concentrations, unless full face-piece respiratory protection is	
	worn.	
Skin Protection	Wear coveralls and gloves. Do not take contaminated work	
	clothes home; family member may become exposed.	
	Contaminated work clothes should be laundered by an individual	
	who has been notified of the hazards of contamination.	

Section 9: Physical and Chemical Properties	
Appearance	Light grey dusty powder
Melting Point	Approximately 2800°C
Odour	Slight smell
Specific Gravity	Approximately 3.5 g/cm ³
Physical State	Solid
Evaporation Rate	Not Applicable
pН	10.3 in a saturated solution
Partition Coefficient	Not Applicable
Vapor Density	Not Applicable
Viscosity	Not Applicable
Boiling Point	Approximately 3600°C
Solubility in Water	0.0006 g/100 mL

Section 10: Stability and Reactivity		
Chemical Stability	Stable under normal conditions.	
	Avoid contact with chlorine trifluoride, phosphorus pentachloride,	
Conditions to Avoid	performic acid and bromine pentafluoride since violent reactions	
	occur with these.	
Incompatible	Strong Acids such as hydrochloric, sulfuric, and nitric acids as well	
Incompatible Substances	as oxidizing agents such as perchlorates, peroxides, permanganates,	
	chlorates, nitrates, chlorine, bromine and fluorine.	
Hazardous	Does not occur.	
Polymerization	Does not occur.	

Section 11: Toxicological Information	
LD50/LC50	No Data Available
Irritancy	Exposure may cause irritancy of eyes, skin or respiratory system.
Carcinogen	Not carcinogenic
Teratogen	No Data Available
Reproductive Toxin	No Data Available
Mutagen	No Data Available
Synergistic Products	None Known

Section 12: Ecological Information

No Data Available. All components in this product are non-toxic.

Section 13: Disposal Considerations

This product does not meet the criteria of a hazardous waste. Dispose in accordance with all applicable Federal, Provincial/State, and local Environmental Regulations.

Section 14: Transport Information	
Special Shipping	No special requirements.
Information	
Canadian TDG	Not a dangerous product, therefore not regulated.
US DOT	Not regulated by DOT. No UN number assigned.
Maritime Transport	IMDG: Not regulated
	Marine Pollutant: Not listed

Section 15: Regulatory Information	
Magnesium Oxide is the main constituent of this product and is reported on the following	
national inventory and/or regulatory lists	
Australia	Australian Inventory of Chemical Substances (AICS): 1309-48-4
Canada	Domestic Substance List (DSL): 1309-48-4
Europe	European Inventory of Existing Commercial Chemical Substances
	(EINECS): 215-171-9
Japan	Existing and New Chemical Substances (ENCS): 1-465
Korea	Existing and Evaluated Chemical Substances (KECL): KE-22728
Philippines	Inventory of Chemicals and Chemical Substances (PICCS)
USA	Toxic Substance Control Act (TSCA) Inventory List 8(b): 1309-48-4
	Does not meet criteria. This product has been classified in
WHMIS	accordance with the hazard criteria of the CPR (Controlled Products
Classification	Regulations) and this MSDS contains all the information required by
	the CPR.
СЕРА	This product is not listed as a toxic substance under the Canadian
	Environmental Protection Act (CEPA 1999).
CERCLA	Not listed as a hazardous substance
SARA TITLE III	Section 302: Product is not listed as an Extremely Hazardous
	Substance (EHS).
	Section 304: Emergency Release Notification not required.
	Section 311/312: Hazard Category: Acute (nuisance dust).
	MSDS, chemical inventory, Tier I/II reporting are applicable.
	Section 313: Product is not subject to Form R reporting.

Section 16: Other Information

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