Material Safety Data Sheet

Microgrit Aluminum Oxide, Alumina Series

1. Product and company identification

Common name	: Microgrit Aluminum Oxide, Alumina Series
Trade name	 Microgrit A-17; Microgrit PXA; Microgrit A-13; Microgrit WA; Microgrit A; Microgrit WCA; Microgrit PLP; Microgrit GB; Microgrit CR.3, Microgrit P 3; Microgrit DD; Microclear EC
Material uses	: Lapping and Polishing.
Supplier/Manufacturer	: Micro Abrasives Corporation 720 Southampton Road P.O. Box 669 Westfield, MA 01085 Tel: (413) 562-3641 Fax: (413) 562-6046
In case of emergency	: 1-866-213-4266

2. Hazards identification

Physical state	: Solid. [Powder or crystal.]
Odor	: Odorless.
Color	: White.
Hazard status	: This material is classified as not hazardous under OSHA regulations in the United States, the WHMIS in Canada and the NOM-018-STPS-2000 in Mexico.
Emergency overview	: No specific hazard. USE WITH CARE. Follow good industrial hygiene practice.
Routes of entry	: Dermal contact. Eye contact. Inhalation. Ingestion.
Potential acute health effects	
Eyes	: Slightly irritating to the eyes.
Skin	: Slightly irritating to the skin.
Inhalation	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Potential chronic health effects	: CARCINOGENIC EFFECTS: A4 (Not classifiable for humans or animals.) by ACGIH. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available.
Medical conditions aggravated by over- exposure	: Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.
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See toxicological information (section 11)

3. Composition/information on ingredients

United States		
Name	CAS number	%
Aluminum Oxide	1344-28-1	60 - 100

Date of issue



						Microy	it Aluminum Oxid	
			Canada	1				
Name							CAS number	%
Aluminum Oxide							1344-28-1	60 - 100
			Mexico					
			Clas	ssific	atio	n		
Name	UN number	IDLH	н	F	R	Special	CAS number	%
Aluminum Oxide	Not regulated.	-	1	0	0		1344-28-1	60 - 100
4. First aid m	easures							
Eye contact							of contact with eyes tion if symptoms or	
Skin contact	: Wash with	n soap and w	vater. Get	med	ical	attention if	symptoms occur.	
Inhalation		remove to f f symptoms		fnot	brea	thing, give	artificial respiration	. Get medical
Ingestion		luce vomiting ttention if sy				ing by mou	ith to an unconscio	ous person. Get
Notes to physician	• No specifi	c antidote N	/ledical sta	iff mi	ist ci	ontact Pois	on Control Center.	

5. Fire-fighting measures

Flammability of the product	: Non-flammable.
Products of combustion	 Decomposition products may include the following materials: metal oxide/oxides
Extinguishing media	
Suitable	: Use an extinguishing agent suitable for the surrounding fire.
Not suitable	: None known.
Special exposure hazards	: No specific fire or explosion hazard.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

Personal precautions	:	No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods for cleaning up	:	Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.



7. Handling and storage

Handling

: Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Storage

: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. Exposure controls/personal protection

United States Exposure limits Product name Aluminum Oxide ACGIH TLV (United States, 1/2006). TWA: 10 mg/m³ 8 hour(s). NIOSH REL (United States, 12/2001). TWA: 5 mg/m³, (as AI) 10 hour(s). OSHA PEL (United States, 11/2006). TWA: 5 mg/m³ 8 hour(s). Form: Respirable fraction Canada **Product name Exposure limits** ACGIH TLV (United States, 1/2006). Aluminum Oxide TWA: 10 mg/m³ 8 hour(s). **Mexico** Product name **Exposure limits** Aluminum Oxide NOM-010-STPS (Mexico, 9/2000). LMPE-PPT: 10 mg/m³ 8 hour(s). : No special ventilation requirements. Good general ventilation should be sufficient to **Engineering measures** control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits. : Safety glasses. Eyes Skin : Lab coat. Respiratory : A respirator is not needed under normal and intended conditions of use. Hands : Natural rubber (latex).



HMIS Code/Personal protective equipment	:	В
Personal protection in case of a large spill Hygiene measures		Safety glasses, goggles or face shield. Impervious gloves. Full suit. Boots. Wear NIOSH- approved self-contained breathing apparatus or equivalent and full protective gear. Wash hands, forearms and face thoroughly after handling compounds and before eating, smoking and using the lavatory and at the end of the day. Follow good industrial hygiene practice.

9. Physical and chemical properties

Physical state	: Solid. [Powder or crystal.]
Color	: White.
Odor	: Odorless.
Molecular weight	: 101.96 g/mole
Molecular formula	: Al ₂ O ₃
Boiling/condensation point	: 2977°C (5390.6°F)
Melting/freezing point	: 2050°C (3722°F)
Relative density	: 4
Solubility	: Insoluble in water.

10. Stability and reactivity

Stability and reactivity	: The product is stable.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hazardous polymerization Conditions of reactivity	: Will not occur. : None known.

11. Toxicological information

Acute Effects

Eyes	: Slightly irritating to the eyes.
Skin	: Slightly irritating to the skin.
Inhalation	: No known significant effects or critical hazards.
Ingestion Potential chronic health effects	 No known significant effects or critical hazards. CARCINOGENIC EFFECTS: A4 (Not classifiable for humans or animals.) by ACGIH. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available.

12. Ecological information

Environmental precautions	: No known significant effects or critical hazards.
Products of degradation	: Not applicable.



13. Disposal considerations

Waste disposal

: The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

14. Transport information

Regulatory information

UN/ IMDG/ IATA DOT/ TDG : Not regulated.

15. Regulatory information

SARA 302/304 emergency planning and notification: No products were found. SARA 302/304/311/312 hazardous chemicals: No products were found. SARA 311/312 MSDS distribution - chemical inventory - hazard identification:N products were found.Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: No products were found. Clean Air Act (CAA) 112 accidental release prevention: No products were found. Clean Air Act (CAA) 112 regulated flammable substances: No products were found. Clean Air Act (CAA) 112 regulated toxic substances: No products were found.State regulations: Connecticut Carcinogen Reporting: This material is not listed. Connecticut Hazardous Material Survey: This material is not listed. Florida substances: This material is not listed. Illinois Chemical Safety Act: This material is not listed.	C		
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Canada inventory : This material is listed or exempted.	WHMIS (Canada)	:	Not regulated.
	Canada inventory	:	This material is listed or exempted.



CEPA Toxic substances: This material is not listed. Canadian ARET: This material is not listed. Canadian NPRI: This material is listed. Alberta Designated Substances: This material is not listed. Ontario Designated Substances: This material is not listed. Quebec Designated Substances: This material is not listed.

This product has been classified in accordance with the hazard criteria of the Canadian CPR, the United States OSHA and the Mexican NOM -018-STPS-2000. This MSDS contains all the information required by the CPR, OSHA, the American National Standard Institute (ANSI) Z400.1 and NOM -018-STPS-2000.



Classification

Health 1 0 Flammability Special HAZARD RATINGS

4- Extreme 3- Serious 2- Moderate 1- Slight 0- Minimal

International regulations

International lists

: This product, (and its ingredients) is (are) listed on national inventories, or is (are) exempted from being listed, in Australia (AICS), in Europe (EINECS/ELINCS), in Korea (TCCL), in Japan (METI), in the Philippines (RA6969).

16. Other information

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Label requirements (U.S.A) : MAY CAUSE EYE AND SKIN IRRITATION. Hazardous Material Information System (U.S.A) : HMIS RATING HAZARD RATINGS Imprime the system (U.S.A) : HMIS RATING 4-Extreme 3-Serious 2-Moderate 1-Slight 0-Minimal See section 8 for more detailed information on personal protection. National Fire Protection Association (U.S.A.) : Host I and the system of the system					
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	References	29CFR Part1910.1200 OSHA MSDS Requirements 49CFR Table List of Hazardous Materials, UN#, Proper Shipping Names, PG Canada Gazette Part II, Vol. 122, No. 2. Registration SOR/88-64, 31 December 1987. Hazardous Products Act "Ingredient Disclosure List" - Canadian Transport of Dangerous Goods, Regulations and Schedules, Clear Language version 2005 Official Mexican Standards NOM-018-STPS-2000 and			
Version : 1		: 01/	/01/2013		
	Version	: 1			



Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

