

10X ENGINEERED MATERIALS

SAFETY DATA SHEET

Created: 01-Aug-2018

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Version: 1.5

1. IDENTIFICATION			
Product Name	10X Engineered Abrasive		
Recommended Use	Abrasive applications (i.e. abrasive blasting, cleaning, surface preparation, surfacing, rust removal)		
Manufacturer Address	10X Engineered Materials, LLC 1162 Manchester Ave. Wabash, IN 46992 United States		
Company Phone Number	(260) 209-1207		
Emergency Telephone	(260) 209-0154 (after 5 p.m. EST and weekends)		
2. HAZARDS IDENTIFICATION			
OSHA Regulatory Status	This material is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)		
Label elements	The product contains no substances which, at their given concentration, are considered to be hazardous to health.		
Hazards not otherwise classified (HNOC)	May cause temporary skin and mucous membranes itching due to mechanical abrasion effect of material.		
Unknown acute toxicity	No information available		
3. COMPOSITION/INFORMATION ON INGREDIENTS			
Components			
Oxide	Chemical Formula	CAS Number	Weight %
Amorphous Silicon Dioxide	SiO ₂	7631-86-9	33-43
Calcium Oxide	CaO	1305-78-8	23-33
Magnesium Oxide	MgO	1309-48-4	8-14
Aluminum Oxide	Al ₂ O ₃	1344-28-1	7-13
Iron Oxide	FeO	1345-25-1	1-5
Additional Information - This product, as supplied, contains no Crystalline Silica or Beryllium.			
4. FIRST AID MEASURES			
Description of First Aid Measures			
Eye contact	<ul style="list-style-type: none"> - Rinse thoroughly with plenty of water as well as under the eyelids. - DO NOT rub or scratch eyes. - If eye irritation persists, get medical advice/attention. 		
Skin contact	<ul style="list-style-type: none"> - Wash off immediately with soap and cold water. - Use a washcloth to help remove dust from skin. - Never use compressed air to remove materials from skin or clothing. 		
Inhalation	<ul style="list-style-type: none"> - Remove to fresh air. - If symptoms persist, call a physician. 		
Ingestion	<ul style="list-style-type: none"> - Accidental ingestion of this material is unlikely. - Rinse mouth with water and drink water to remove dust from the throat. 		
Note to physicians	<ul style="list-style-type: none"> - Treat symptomatically 		
5. FIRE-FIGHTING MEASURES			
Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.		
Unsuitable extinguishing media	None		
Specific hazards arising from the chemical	No information available		
Explosion data	<ul style="list-style-type: none"> - Sensitivity to Mechanical Impact: None - Sensitivity to Static Discharge: None 		
Protective equipment and precautions for firefighters	No special equipment is necessary for this material.		
6. ACCIDENTAL RELEASE MEASURES			
Personal precautions, protective equipment, and emergency procedures			
Personal precautions	<ul style="list-style-type: none"> - Avoid contact with eyes and skin. - Use personal protective equipment as required. - Wash thoroughly after handling. 		
Environmental precautions	<ul style="list-style-type: none"> - See Section 12 for additional ecological information. - Dispose of contents/container to an approved waste disposal facility. 		
Methods and material for containment and cleaning up			
Methods for containment	<ul style="list-style-type: none"> - Prevent further leakage or spillage if safe to do so. 		
Methods for cleaning up	<ul style="list-style-type: none"> - Use personal protective equipment as required. - Pick up and transfer to properly labeled containers. - Avoid creating dust. - Clean contaminated surface thoroughly. - Dispose of in accordance with Local, State, Federal and Provincial regulations. 		
7. HANDLING AND STORAGE			
Conditions for safe storage, including any incompatibilities			

Storage conditions	Keep in a dry place									
Known incompatible materials	Mild reaction and odor when contacted with strong acids. Should the material be contaminated with acid, provide adequate ventilation and respiratory protection to clean the area. Do not use contaminated product and dispose in accordance with governing laws and standards for safe handling, spill remediation, and disposal of acids.									
8. EXPOSURE CONTROLS/PERSONAL PROTECTION										
Control Parameters										
Exposure Guidelines	This product, as supplied, does not contain hazardous materials with occupational exposure limits established by federal or state regulatory agencies.									
Engineering Controls	<ul style="list-style-type: none"> - Provide local exhaust and/or general ventilation to control dust. - Dust collection system should be used to reduce exposure to dust. - Vacuum or wet clean-up methods should be used. - Using this material in an uncontrolled environment (outside a blast booth or similar enclosure) may create particulate dust, appropriate controls are recommended. 									
Individual protection measures, such as personal protective equipment										
Eye/face protection	- Wear safety glasses with side shields (or goggles).									
Skin and body protection	<ul style="list-style-type: none"> - Wear protective gloves. - Wear long-sleeved shirt and long pants. 									
Respiratory protection	<ul style="list-style-type: none"> - When workers are facing airborne particulates/dust concentrations above the exposure limits, they must use an appropriate certified respirator. - A properly fitted NIOSH approved disposable N95 type dust respirator or better is recommended when using the material. 									
General hygiene consideration	<ul style="list-style-type: none"> - Wash hands before breaks and immediately after handling products. - Take off all contaminated clothing and wash it before reuse. 									
9. PHYSICAL AND CHEMICAL PROPERTIES										
Physical state	Solid									
Appearance	Solid particulate									
Odor	Low									
Color	Black, gray									
Melting point	1150°C / 2102°F									
Water solubility	Insoluble in water									
Material Density	2.7-2.9 g/cc									
Bulk Density - Abrasive 20/40	90-95 lb/ft ³									
Bulk Density - Abrasive 40/70	95-105 lb/ft ³									
Bulk Density - Abrasive 70/100	100-110 lb/ft ³									
10. STABILITY AND REACTIVITY										
Reactivity	No known reactivity									
Chemical stability	Stable									
Possibility of hazardous reactions	None under normal processing									
Conditions to avoid	Extremes of temperature									
Incompatible materials	Mild reaction with strong acids									
Hazardous decomposition products	None									
11. TOXICOLOGICAL INFORMATION										
Information on likely routes of exposure										
Chemical Name	ACGIH	IARC	NTP	OSHA						
Mineral Solids	-	-	-	5 mg/m ³ PEL-TWA						
Particulates not regulated aside from total and respirable dust. Dust may cause temporary skin and mucous membrane irritation due to mechanical abrasion. Mechanical abrasion is not considered as a health hazard as defined by the Hazard Communication Standard (HCS 2012) OSHA Regulation. Inhalation may cause coughing, nose and throat irritation and sneezing. High exposures may cause difficult breathing, congestion, and chest tightness.										
12. ECOLOGICAL INFORMATION										
This product is not hazardous to the environment.										
13. DISPOSAL CONSIDERATIONS										
Disposal should be in accordance with applicable regional, national, and local laws and regulations.										
14. TRANSPORT INFORMATION										
This product is not subject to regulation as a hazardous material for shipping.										
15. REGULATORY INFORMATION										
International Inventories										
Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Mineral Solids										
Legend:										
TSCS - United States Toxic Substances Control Act Section 8(b) Inventory										
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List										
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances										
ENCS - Japan Existing and New Chemical Substances										
IECSC - China Inventory of Existing Chemical Substances										
KECL - Korean Existing and Evaluated Chemical Substances										
PICCS - Philippines Inventory of Chemicals and Chemical Substances										

AICS - Australian Inventory of Chemical Substances											
US Federal Regulations											
SARA 313	Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.										
SARA 311/312 Hazard Categories	<table border="0"> <tr> <td>- Acute health hazard</td> <td>- No</td> </tr> <tr> <td>- Chronic health hazard</td> <td>- No</td> </tr> <tr> <td>- Fire hazard</td> <td>- No</td> </tr> <tr> <td>- Sudden release of pressure hazard</td> <td>- No</td> </tr> <tr> <td>- Reactive hazard</td> <td>- No</td> </tr> </table>	- Acute health hazard	- No	- Chronic health hazard	- No	- Fire hazard	- No	- Sudden release of pressure hazard	- No	- Reactive hazard	- No
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- Chronic health hazard	- No										
- Fire hazard	- No										
- Sudden release of pressure hazard	- No										
- Reactive hazard	- No										
CWA (Clean Water Act)	This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (CWA) (40 CFR 122.21 and 40 CFR 122.42).										
CERCLA (Comprehensive Environmental Response Compensation and Liability Act)	This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.										
US State Regulations											
California Proposition 65	This product does not contain any Proposition 65 chemicals. Certification in process.										
US State Right-to-Know Regulations											
16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION											
Creation Date	01-Aug-2018										
Revision Date	16-Aug-2019										
Revision Note	No information available										
Disclaimer	Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use.										
End of Safety Data Sheet											