

SAFETY DATA SHEET

Apex® For Industrial Use Only None Known.

Manufacturer/Supplier information

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2. Hazard(s) identification

Classified hazards	This item is defined as an article per OSHA (29 CFR 1910.1200) and is therefore exempt from labeling. A Safety Data Sheet is available.
	This item is not hazardous per OSHA 29 CFR 1910.1200(c). However, individual customer processes (such as grinding, sawing, or blasting) may result in the formation of dust that may present health hazards. May cause respiratory irritation, lung injury, or cancer by inhalation. Limit skin contact. Wash hands after handling. Dispose of waste and residues in accordance with local authority requirements. Wear protective gloves, protective clothing, and eye protection. Dust may cause cancer.
Label elements	This item is defined as an article per OSHA (29 CFR 1910.1200) and is therefore exempt from labeling. A Safety Data Sheet is available.
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Hazard(s) not otherwise classi	fied (HNOC)

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3. Composition/information on ingredients

Chemical Name	Common Name/Synonyms	CAS Number	%
Magnesium Oxide		1309-48-4	*
Graphite		7782-42-5	*
Aluminum		7429-90-5	*
Aluminum Oxide (Non-Fibrous)		1344-28-1	*
Phenol		108-95-2	*
Ethane-1,2-diol		107-21-1	*
Formaldehyde		50-00-0	*
Other components below			

reportable levels

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation	Remove the victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use the mouth-to-mouth method if the victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a POISON CENTER or doctor/physician.
Skin contact	Take off immediately all contaminated clothing. Wash with plenty of soap and water. Get medical advice/attention if you feel unwell. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Eye contact	Do not rub your eyes. Immediately flush your eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present, and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical advice/attention if you feel unwell.
Most important symptoms/eff	ects, acute and delayed

Indication of immediate medic	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Coughing. Skin irritation. May cause redness and pain. al attention and special treatment needed
	Provide general supportive measures and treat
	symptomatically. Keep the victim under observation.
	Symptoms may be delayed.
General information	Take off immediately all contaminated clothing. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media

Not available.

Specific hazards arising from the chemical

Not available.

Special protective equipment and precautions for firefighters

Not available.

6. Accidental release measures

Personal precautions, protective equipment, and emergency procedures

Keep unnecessary personnel away. Keep people away from, and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of dust. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see Section 8 of the SDS.

Methods and materials for containment and cleaning up

Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Stop the flow of material, if this is without risk. Cover with a plastic sheet to prevent spreading. Absorb in vermiculite, dry sand, or earth and place into containers. Large Spills: Wet down with water and dike for later disposal. Shovel the material into a waste container. Prevent product from entering drains. Following product recovery, flush the area with water. Small Spills: Sweep up or vacuum up spillage and collect it in a suitable container for disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean the surface thoroughly to remove residual contamination.

Environmental precautions	Never return spills to original containers for reuse. For waste disposal, see Section 13 of the SDS. Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses, or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental
	releases.

7. Handling and storage

Precautions for safe handling Minimize dust generation and accumulation. Avoid breathing dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink, or smoke. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in the original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form
Aluminum	PEL	5 mg/m ³	Respirable fraction.
(CAS 7429-90-5)		15 mg/m ³	Total dust.
Graphite	PEL	5 mg/m³	Respirable fraction.
(CAS 7782-42-5)		15 mg/m³	Total dust.
Magnesium Oxide (CAS 1309-48-4)	PEL	15 mg/m ³	Total particulate.

US OSHA Table Z-3 (29 CFR 1910.1000)

Components	Туре	Value	Form
Graphite	TWA	15 mppcf	
(CAS 7782-42-5)			

US ACGIH Threshold Limit Values

Components	Туре	Value	Form
Aluminum (CAS 7429-90-5)	TWA	1 mg/m ³	Respirable fraction.
Graphite (CAS 7782-42-5)	TWA	2 mg/m ³	Respirable fraction.

Magnesium Oxide (CAS 1309-48-4)	TWA	10 mg/m ³	Inhalable fraction.
US NIOSH: Pocket Guide to Ch	emical Hazards		
Components	Туре	Value	Form
Aluminum (CAS 7429-90-5)	TWA	5 mg/m ³	Welding fume or pyrophoric powder.
		5 mg/m³ 10 mg/m³	Respirable. Total.
Graphite (CAS 7782-42-5)	TWA	2.5 mg/m ³	Respirable.
Biological limit values	No biological expo ingredient(s).	osure limits were	noted for the
Exposure guidelines	(less than 100ppm formaldehyde. Und decomposition pro	e low toxicity, w in this refractor der certain condi oducts may still i dioxide, formalc	ith minimal free-phenol y product) and no free- itions, thermal nclude carbon lehyde, phenol, and
Appropriate engineering contr			
	hour) should be us to conditions. If ap exhaust ventilation maintain airborne limits. If exposure maintain airborne facilities and an en when handling this	ed. Ventilation r oplicable, use pro- n, or other engine levels below reco limits have not b levels to an acce nergency showe s product.	ommended exposure een established, ptable level. Eye wash r must be available
Individual protection measures			
Eye/face protection Skin protection	wear salety glasse	es with side shiel	us (or goggles).
Hand protection Other	Wear appropriate Wear appropriate impervious apron	chemical-resista	nt clothing. Use of an
Respiratory protection	Use a NIOSH/MSH	A-approved resp	pirator if there is a risk c ceeding the exposure
Thermal hazards	Wear appropriate necessary.	thermal protecti	ve clothing, when

General Hygiene Considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance Physical state Solid. Form Solid. Color Not available. Odor Not available. Odor threshold Not available. pН Not available. Melting point/freezing point Not available. Initial boiling point and boiling range Not available. Flash point Not available. **Evaporation rate** Not available. Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits Flammability limit - lower (%) Not available. Flammability limit - upper (%) Not available. Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available. Vapor pressure Not available. Vapor density Not available. **Relative density** Not available. Solubility(ies) Solubility (water) Not available. Partition coefficient (n-octanol/water) Not available. Auto-ignition temperature Not available. **Decomposition temperature** Not available. Viscosity Not available. 10. Stability and reactivity

for scapincy and reactiv	
Reactivity	The product is stable and non-reactive under normal
	conditions of use, storage, and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reacti	ions
	No dangerous reaction is known under conditions of
	normal use.
Conditions to avoid	Contact with incompatible materials. Refractories containing crystalline silica may, after service, contain

more or less crystalline silica. Care must be taken to avoid and/or control dust from demolition. If in doubt of the proper protection, seek advice from a safety professional. The organic binder in this product falls into a class known as phenolic resin. Refractory products using this type of binder are supplied in two forms, (1) shaped products such as brick and (2) monolithics such as refractory plastics and rams. The hazards associated with phenolic resin are different in the two forms. For pre-cured shapes (brick), the binder has been reacted or polymerized by heat to its solid form before shipment. On decomposition by heating, where there is sufficient air and heating rate, the gaseous products are mostly carbon dioxide and water. Under low or limited oxygen supply, decomposition products during heat-up and early service may include phenol, as well as aromatic and/or aliphatic derivatives. After a campaign in service, this refractory product should be completely coked and, in that condition, the material for disposal would be carbon and an inorganic oxide. During field installation of non-cured unshaped products (monolithics), there is a possibility of exposure to trace amounts of phenol by skin contact and inhalation. After the product has been heated to high temperatures in service, it will have similar decomposition characteristics to pre-cured shapes.

Incompatible materials

Phosphorus. Chlorine.

Incompatibility is based strictly upon potential theoretical reactions between chemicals and may not be specific to industrial application exposure. Contact your sales representative for clarification.

Hazardous decomposition products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Toxic if inhaled.	
Skin contact	Toxic in contact with skin. Causes skin irritation.	
Eye contact	Causes serious eye irritation.	
Ingestion	Expected to be a low ingestion hazard.	
Symptoms related to the physical, chemical, and toxicological characteristics:		
	Severe eye irritation. Symptoms may include stinging,	
	tearing, redness, swelling, and blurred vision. Coughing.	
	Skin irritation. May cause redness and pain.	
Information on toxicological ef	fects	
Acute toxicity	Toxic if inhaled. Toxic in contact with skin.	
Skin corrosion/irritation	Causes skin irritation.	
Sorious ava damaga/ava	virritation	

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensi			
Respiratory sensit			
	Not a respiratory sensitizer.		
	This product is not expected to cause skin sensitization.		
Germ cell mutagenicity	No data is available to indicate product, or any		
	components present at greater than 0.1% are mutagenic or		
	genotoxic.		
Carcinogenicity	This product is not considered to be a carcinogen by IARC,		
	ACGIH, NTP, or OSHA.		
US OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)			
	Not Listed.		
Reproductive toxicity	This product is not expected to cause reproductive or		
Reproductive toxicity			
	developmental effects.		
Specific target organ toxicity -			
	Not classified.		
Specific target organ toxicity -	repeated exposure		
	Not classified.		
Aspiration hazard	Not an aspiration hazard.		
Chronic effects	Prolonged inhalation may be harmful.		
12. Ecological informatio	n		
Ecotoxicity	Toxic to aquatic life with long-lasting effects.		
Persistence and degradability	No data is available on the degradability of this product.		
	IND UALA IS AVAIIADLE OIT LITE DEGLADADIILY OF LITIS DIODUCL.		

ECOLOXICILY	Toxic to aquatic life with long-lasting effects.
Persistence and degradability	No data is available on the degradability of this product.
Bio-accumulative potential	No data available.
Mobility in soil	No data available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions	This product, in its present state, when discarded or disposed of, is not hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.	
Hazardous waste code	Not applicable.	
Waste from residues / unused products		
Contaminated packaging	Not available. Not available.	

14. Transport information

DOT	Not regulated as dangerous goods.	
ΙΑΤΑ	Not regulated as dangerous goods.	
IMDG	Not regulated as dangerous goods.	
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code		
Not applicable.		

15. Regulatory information

15. Regulato	ry mornatio			
US federal regu	(OSHA Hazard Comm	zardous Chemical" as defined by the unication Standard, 29 CFR 1910.1200 ces in this product are listed on the	
	7	FSCA chemical subst	ance inventory where required.	
TSCA Sectio	TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)			
Not regulated.				
CERCLA Haz	CERCLA Hazardous Substance List (40 CFR 302.4)			
	Not listed.			
SARA 304 E	SARA 304 Emergency release notification			
	Not regulated.			
US OSHA Sp	pecifically Regula [,]	ted Substances (29	CFR 1910.1001-1050)	
		Not listed.		
Superfund Ame	endments and Rea	authorization Act of	1986 (SARA)	
Hazard c	ategories I	mmediate Hazard - N	/es	
	[Delayed Hazard - No		
	F	Fire Hazard - No		
	F	Pressure Hazard - No		
	F	Reactivity Hazard - N	0	
SARA 302 Extre	emely hazardous	substance		
	١	Not listed.		
SARA 311/312 H	azardous Chemic	al		
	١	Not listed.		
SARA 313 (TRI I	reporting)			
Chemical Name	e C,	AS number	% by wt.	
			% by wt. *	_
Chemical Name Aluminum		4 <i>S number</i> 129-90-5	-	
Aluminum	74		-	
Aluminum Other federal re	74 egulations	129-90-5	*	
Aluminum Other federal re	72 egulations Act (CAA) Secti	129-90-5 on 112 Hazardous Ai	-	
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Aluminum (CAS 7429-90-5) Graphite (CAS 7782-42-5) Magnesium Oxide (CAS 1309-48-4)

US Rhode Island RTK Aluminum (CAS 7429-90-5)

US California Proposition 65

This product contains a chemical known to the State of California to cause cancer.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance Formaldehyde (CAS 50-00-0) Listed: January 1, 1988

International Inventories

Country(s) or	Inventory name	On
region		inventory
		(yes/no) *
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical	No
	Substances (EINECS)	
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances	Yes
	(PICCS)	
United States	Toxic Substances Control Act (TSCA) Inventory	Yes
& Puerto Rico		

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

This information is supplied to be informative and to alert the user of the material. The ultimate compliance with federal, state, and/or local regulations concerning the use of this material, or compliance with respect to product liability, rests solely upon the purchaser thereof.

Prepared by:	FRC Global
Date:	October 2020

DISCLAIMER: Reasonable care has been taken in the preparation of the information provided and believed to be correct as of the issue date. However, FRC Global makes no representation or warranties and assumes no responsibility as to the completeness and accuracy thereof Users must make their own determination as to the suitability of the product for their purpose before use. FRC Global will not be responsible for any damages of

any nature directly or indirectly whatsoever resulting from the use of, reliance upon, or misuse of the information contained herein.

End of Safety Data Sheet