

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 6/9/2023 Revision date: 6/9/2023 Supersedes: 12/18/2020

SECTION 1: Identification	
1.1. Identification	
	: Mixture : Nuline 5LA : Mixture : 7468
	: Resin Bonded Magnesia-Carbon Brick
1.2. Recommended use and restrictions on u	
	: Refractory Brick : Industrial use
1.3. Supplier	
Resco Products, Inc. One Robinson Plaza, Suite 300 6600 Steubenville Pike Pittsburgh, PA, 15205 United States 412-494-4491 <u>SDS@RescoProducts.com</u> - <u>WWW.RescoProducts.com</u>	om
1.4. Emergency telephone number	
Emergency number	: EMERGENCY ONLY (CHEMTREC) USA & Canada 1-800-424-9300 Outside USA & Canada +1 703-741-5970
SECTION 2: Hazard(s) identification	Ouiside USA & Canada +1703-741-3970
2.1. Classification of the substance or mixtu	re
GHS US classification	
Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2B Specific target organ toxicity – Single exposure, Categore Respiratory tract irritation Full text of H statements : see section 16	H315 Causes skin irritation H320 Causes eye irritation gory 3, H335 May cause respiratory irritation
2.2. GHS Label elements, including precaution	onary statements
GHS US labeling Hazard pictograms (GHS US)	
Signal word (GHS US) Hazard statements (GHS US)	 Warning H315 - Causes skin irritation H320 - Causes eye irritation H335 - May cause respiratory irritation
Precautionary statements (GHS US)	P280 - Wear protective gloves/protective clothing/eye protection/face protection.
2.3. Other hazards which do not result in class	ssification
No additional information available	
2.4. Unknown acute toxicity (GHS US)	
No additional information available	· · · · · · · · · · · · · · · · · · ·
SECTION 3: Composition/Information or	h ingredients
3.1. Substances	
Not applicable	
3.2. Mixtures	
Name	Product identifier % GHS US classification
Magnesium Oxide Aluminum - metal powder	CAS-No.: 1309-48-4 75 – 95 Not classified CAS-No.: 7429-90-5 1 – 5 Not classified
Phenolic Resin	CAS-No.: 7429-90-5 1 – 5 Not classified
graphite	CAS-No.: 7782-42-5 1 – 5 Not classified
Full text of hazard classes and H-statements : see sec	
SECTION 4: First-aid measures	
4.1. Description of first aid measures	
	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advic

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First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact	 Dust when sawing or tear out. Remove the victim into fresh air. Gently wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. 	
First-aid measures after ingestion	: Rinse mouth with water. Do not induce vomiting.	
4.2. Most important symptoms and effects		
Most Important Symptoms/Effects	: No additional information available.	
4.3. Immediate medical attention and spec	cial treatment, if necessary	
No additional information available		
SECTION 5: Fire-fighting measures		
5.1. Suitable (and unsuitable) extinguishin	ng media	
Suitable extinguishing media Unsuitable extinguishing media	 Use extinguishing media appropriate for surrounding fire. No unsuitable extinguishing media known. 	
5.2. Specific hazards arising from the che		
Fire hazard	: Non-flammable. Do not breathe fumes from fires or vapors from decomposition.	
5.3. Special protective equipment and pre-		
Firefighting instructions	: Exercise caution when fighting any chemical fire.	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus.	
Other information	 Product will not burn, but does contain small quantities of chemicals which can generate toxic and/or irritating vapors when initially heated. Under fire conditions hazardous combustion products such as carbon monoxide may be generated. The phenolic resin binder may undergo incomplete combustion when temperature is applied to this product. The intent of this note is as follows: (1) to apprise the customer/user of the potential for incomplete combustion, and (2) to advise that the chemical compounds produced by incomplete combustion by poor air handling practices may exceed TLV's for specific air contaminates. The specific chemical compounds witch may be produced include but are not limited to: carbon monoxide, formaldehyde, phenol, alcohols, glycols, and other solvents. 	
SECTION 6: Accidental release measu	ires	
6.1. Personal precautions, protective equi	pment and emergency procedures	
6.1.1. For non-emergency personnel Protective equipment Emergency procedures 6.1.2. For emergency responders	 Safety glasses. Protective gloves. Safety shoes. Avoid contact with skin and eyes. 	
Protective equipment Emergency procedures	 Equip cleanup crew with proper protection. Collect spillage. On land, sweep or shovel into suitable containers. 	
6.2. Environmental precautions		
No additional information available		
6.3. Methods and material for containment	t and cleaning up	
For containment	: Collect spillage.	
Methods for cleaning up	: Mechanically recover the product.	
6.4. Reference to other sections		
No additional information available		
SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling Hygiene measures	 Avoid contact with skin and eyes. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. 	
7.2. Conditions for safe storage, including any incompatibilities		
Storage conditions Incompatible products	 Store this product in a dry location where it can be protected from the elements. Strong acids. 	
Incompatible materials	Oxidizing agents and strong acids.	
SECTION 8: Exposure controls/perso		
8.1. Control parameters		
Nuline 5LA (Mixture)		
No additional information available		

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USA - ACGIH - Occupational Exposure Limits		
10 mg/m ³ inhalable dust		
10 mg/m ³ respirable dust		
graphite (7782-42-5)		
2 mg/m ³ (Respirable fraction)		
1 mg/m ³ (Respirable fraction)		
Dust when sawing or tear out. Provide adequate ventilation to minimize dust concentrations.		
protective equipment		
K		
erties		
ical properties		
Solid Solid in various shapes. Black Resin Odor No data available No data available > 2800 °F No data available No data available No data available No data available No data available No data available No data available ≈ 2.9 Insoluble in water. No data available No data available		

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Oxidizing properties :	No data available	
9.2. Other information		
No additional information available		
SECTION 10: Stability and reactivity		
10.1. Reactivity		
No additional information available		
10.2. Chemical stability		
Stable under normal conditions.		
10.3. Possibility of hazardous reactions		
No additional information available		
10.4. Conditions to avoid		
No additional information available		
10.5. Incompatible materials		
Strong acids.		
10.6. Hazardous decomposition products		
apprise the customer/user of the potential for incomplete	abustion when temperature is applied to this product. The intent of this note is as follows: (1) to e combustion, and (2) to advise that the chemical compounds produced by incomplete TLV's for specific air contaminates. The specific chemical compounds witch may be produced lehyde, phenol, alcohols, glycols, and other solvents.	
11.1. Information on toxicological effects	Not classified	
	Not classified	
	Not classified	
Magnesium Oxide (1309-48-4)		
LD50 oral rat	> 5000 mg/kg (Rat, Literature study, Oral)	
LD50 dermal rabbit	> 2000 mg/kg body weight (Rabbit, Literature study, Dermal)	
graphite (7782-42-5)		
LD50 oral rat	> 2000 mg/kg (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral)	
LC50 Inhalation - Rat	> 2000 mg/m³ air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (dust))	
Skin corrosion/irritation :	Causes skin irritation.	
Magnesium Oxide (1309-48-4)		
рН	11 (10 %)	
graphite (7782-42-5)		
рН	7 (1.3 %)	
Serious eye damage/irritation :	Causes eye irritation.	
Magnesium Oxide (1309-48-4)		
рН	11 (10 %)	
graphite (7782-42-5)		
рН	7 (1.3 %)	
	Not classified	
Germ cell mutagenicity :	Not classified	
, ,	Not classified	
Phenolic Resin (108-95-2)		
IARC group	3 - Not classifiable	
Reproductive toxicity :	Not classified	
STOT-single exposure :	May cause respiratory irritation.	

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STOT-repeated exposure :	Not classified
Aspiration hazard :	Not classified
	No data available
Magnesium Oxide (1309-48-4)	
Viscosity, kinematic	Not applicable (solid)
Most Important Symptoms/Effects :	No additional information available.
SECTION 12: Ecological information	
12.1. Toxicity	
graphite (7782-42-5)	
LC50 - Fish [1]	> 100 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Static system, Fresh water, Experimental value, Lethal)
EC50 - Crustacea [1]	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Behaviour)
EC50 72h - Algae [1]	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Growth rate)
EC50 72h - Algae [2]	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Cell numbers)
12.2. Persistence and degradability	
Magnesium Oxide (1309-48-4)	
Persistence and degradability	Not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
graphite (7782-42-5)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD BOD (% of ThOD)	Not applicable Not applicable
Aluminum - metal powder (7429-90-5)	Diadagradability is saily sat applicable
Persistence and degradability Chemical oxygen demand (COD)	Biodegradability in soil: not applicable. Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
12.3. Bioaccumulative potential	
-	
Magnesium Oxide (1309-48-4) Bioaccumulative potential	No bioaccumulation data available.
graphite (7782-42-5) Bioaccumulative potential	Not bioaccumulative.
Aluminum - metal powder (7429-90-5) Bioaccumulative potential	No tost data of component(a) available
	No test data of component(s) available.
12.4. Mobility in soil	
Magnesium Oxide (1309-48-4) Surface tension	No data available is the literature
Ecology - soil	No data available in the literature No data available.
Aluminum - metal powder (7429-90-5)	
Ecology - soil	Contains component(s) that adsorb(s) into the soil.
12.5. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
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13.1. Disposal methods	
	Dispose in a safe manner in accordance with local/national regulations.
SECTION 14: Transport information	
In accordance with DOT / TDG / IMDG / IATA	

In accordance with DOT / TDG / IMDG / IATA

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Department of Transportation (DOT)		
In accordance with DOT		
Not regulated		
Transportation of Dangerous Goods Not regulated		
Transport by sea		
Not regulated		
Air transport		
Not regulated		
SECTION 15: Regulatory information		
15.1. US Federal regulations		
(TSCA) inventory, except for:	s Active on the United States Environmental Protection Agency Toxic Substances Control Act	
Aluminum - metal powder	CAS-No. 7429-90-5 1 – 5%	
Phenolic Resin (108-95-2)		
Subject to reporting requirements of United States SAF	24 Section 313	
Listed on EPA Hazardous Air Pollutant (HAPS)		
CERCLA RQ	1000 lb	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	1000 lb	
SARA Section 302 Threshold Planning Quantity	10000 lb 500lb if the substance is solid in powder form with particle size less than 100 microns,	
(TPQ)	or is in solution or molten form	
Aluminum - metal powder (7429-90-5)		
Note	This information must be included in all SDS's that are copied and distributed for this material.	
15.2. International regulations		
CANADA		
Magnesium Oxide (1309-48-4)		
Listed on the Canadian DSL (Domestic Substances Lis	t)	
graphite (7782-42-5)	<u> </u>	
Listed on the Canadian DSL (Domestic Substances Lis	t)	
Phenolic Resin (108-95-2)		
Listed on the Canadian DSL (Domestic Substances Lis	it)	
EU-Regulations		
No additional information available		
National regulations No additional information available		
15.3. US State regulations		
Component	State or local regulations	
Magnesium Oxide (1309-48-4)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List	
Graphite (7782-42-5)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous	
	Substance List; U.S Pennsylvania - RTK (Right to Know) List	
Phenolic Resin (108-95-2)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List	
SECTION 16: Other information		
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations		
	6/9/2023 Report language name. English. In the event of any conflict between English and other language	
	versions, the English version shall prevail.	
Full text of H-phrases		
H315 Causes skin irritation		
H320 Causes eye irritation		
H335 May cause respiratory irritation		

Safety Data Sheet (SDS), USA

This information and recommendations set forth herein are taken from sources believed to be accurate as of the date herein, however, Resco Products, Inc. makes no warranty with respect to the accuracy of the information or the suitability of the recommendations, and assumes no liability to any user thereof.