

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 6/23/2023 Revision date: 6/23/2023 Supersedes: 1/12/2021

SECTION 1: Identification	
1.1. Identification	
Product form Product name CAS-No. Product code Other means of identification	 Mixture Nuline 13-92 Mixture 1628 - Mix13-92 Resin Bonded Magnesia-Carbon Brick
1.2. Recommended use and restrictions on	
Use of the substance/mixture Recommended use	: 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.</u>	<u>com</u>
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	Suiside USA & Canada +1705741-5370
2.1. Classification of the substance or mixt	ILE
GHS US classification Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2B Specific target organ toxicity – Single exposure, Cat Respiratory tract irritation Full text of H statements : see section 16	H315 Causes skin irritation H320 Causes eye irritation egory 3, H335 May cause respiratory irritation
2.2. GHS Label elements, including precaut	ionary 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 eye protection, protective gloves, Safety shoes.
2.3. Other hazards which do not result in cl	assification
No additional information available	
2.4. Unknown acute toxicity (GHS US) No additional information available	
SECTION 3: Composition/Information	n ingradiante
3.1. Substances	
Not applicable	
3.2. Mixtures	
Name	Product identifier % GHS US classification
Magnesium Oxide	CAS-No.: 1309-48-4 75 – 95 Not classified
graphite	CAS-No.: 7782-42-5 5 – 10 Not classified
Phenolic Resin	CAS-No.: 108-95-2 1 – 5 Not classified
Aluminum - metal powder magnesium, metal	CAS-No.: 7429-90-5 1 – 5 Not classified CAS-No.: 7439-95-4 1 – 5 Not classified
Full text of hazard classes and H-statements : see s	

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SECTION 4: First-aid measures		
4.1. Description of first aid measures		
First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.	
First-aid measures after inhalation	: Dust when sawing or tear out. Remove the victim into fresh air.	
First-aid measures after skin contact First-aid measures after eye contact	: Gently wash with plenty of soap and water. : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present	
T list-alu measures aller eye contact	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 (a	icute and delayed)	
Most Important Symptoms/Effects	: No additional information available.	
4.3. Immediate medical attention and special	treatment, if necessary	
No additional information available		
SECTION 5: Fire-fighting measures		
5.1. Suitable (and unsuitable) extinguishing		
	: Use extinguishing media appropriate for surrounding fire. : No unsuitable extinguishing media known.	
5.2. Specific hazards arising from the chemic		
5.3. Special protective equipment and preca	: Non-flammable. Do not breathe fumes from fires or vapors from decomposition.	
	: Exercise caution when fighting any chemical fire.	
	: 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 measure	es	
6.1. Personal precautions, protective equipm	nent and emergency procedures	
6.1.1. For non-emergency personnel		
	: Safety glasses. Protective gloves. Safety shoes.	
Emergency procedures 6.1.2. For emergency responders	: Avoid contact with skin and eyes.	
Protective equipment	: Equip cleanup crew with proper protection.	
Emergency procedures	: 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 a	nd cleaning up	
	: Collect spillage.	
0 1	: 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		
	: Avoid contact with skin and eyes.	
Hygiene measures	: 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 an	ny incompatibilities	
Storage conditions	: Store this product in a dry location where it can be protected from the elements.	
Incompatible products Incompatible materials	 Strong acids. Oxidizing agents and strong acids. 	
SECTION 8: Exposure controls/persona		
8.1. Control parameters		

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Nuline 13-92 (Mixture)		
No additional information available		
Magnesium Oxide (1309-48-4)		
USA - ACGIH - Occupational Exposure Limits	S	
ACGIH OEL TWA	10 mg/m ³ inhalable dust	
USA - OSHA - Occupational Exposure Limits		
OSHA PEL (TWA) [1]	10 mg/m ³ respirable dust	
graphite (7782-42-5)		
USA - ACGIH - Occupational Exposure Limits	S	
ACGIH OEL TWA	2 mg/m ³ (Respirable fraction)	
Phenolic Resin (108-95-2)		
No additional information available		
Aluminum - metal powder (7429-90-5)		
USA - ACGIH - Occupational Exposure Limits	S	
ACGIH OEL TWA	1 mg/m ³ (Respirable fraction)	
magnesium, metal (7439-95-4)		
No additional information available		
 8.2. Appropriate engineering controls Appropriate engineering controls 8.3. Individual protection measures/Pers Personal protective equipment: Avoid all unnecessary exposure. 	: Dust when sawing or tear out. Provide adequate ventilation to minimize dust concentrations. sonal protective equipment	
Hand protection:		
Wear protective gloves.		
Eye protection:		
Chemical goggles or safety glasses		
Skin and body protection:		
Safety shoes. Wear suitable protective clothing		
Respiratory protection:		
Dust when sawing or tear out. Wear appropriate	nask	
SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and c Physical state Appearance Color Odor Odor threshold	 Solid Solid in various shapes. Black Resin Odor No data available 	
pH Melting point Freezing point Boiling point Flash point Relative evaporation rate (butyl acetate=1) Flammability (solid, gas) Vapor pressure Relative vapor density at 20°C Relative density Solubility	 No data available > 2800 °F No data available Not flammable. No data available No data available available No data available Insoluble in water. 	
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Auto-ignition temperature Decomposition temperature Viscosity, kinematic Viscosity, dynamic Explosion limits Explosive 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 incomple combustion by poor air handling practices may exceed	mbustion when temperature is applied to this product. The intent of this note is as follows: (1) to ete combustion, and (2) to advise that the chemical compounds produced by incomplete d TLV's for specific air contaminates. The specific chemical compounds witch may be produced ldehyde, phenol, alcohols, glycols, and other solvents.
SECTION 11: Toxicological information	
11.1. Information on toxicological effects	
	: Not classified
Acute toxicity (dermal)	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)	
pH	7 (1.3 %)
•	: Causes eye irritation.
Magnesium Oxide (1309-48-4)	
pH	11 (10 %)
graphite (7782-42-5)	
рН	7 (1.3 %)
Respiratory or skin sensitization	: Not classified

: Not classified

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Carcinogenicity :	Not classified	
Phenolic Resin (108-95-2)		
IARC group	3 - Not classifiable	
Reproductive toxicity :	Not classified	
	May cause respiratory irritation. Not classified	
STOT-repeated exposure : Aspiration hazard :	Not classified	
	No data available	
Magnesium Oxide (1309-48-4)		
Viscosity, kinematic	Not applicable (solid)	
	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	Not applicable	
BOD (% of ThOD)	Not applicable	
Aluminum - metal powder (7429-90-5)		
Persistence and degradability	Biodegradability in soil: not applicable.	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
BOD (% of ThOD)	Not applicable	
magnesium, metal (7439-95-4)		
Persistence and degradability	Biodegradability: not applicable.	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
BOD (% of ThOD)	Not applicable	
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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 test data of component(s) available.	
magnesium, metal (7439-95-4)	1	
BCF - Other aquatic organisms [1]	41 – 44 (Lamellibranchiata, Intestines)	
12.4. Mobility in soil		
Magnesium Oxide (1309-48-4)	1	
Surface tension	No data available in the literature	
Ecology - soil	No data available.	
Aluminum - metal powder (7429-90-5)		
Ecology - soil	Contains component(s) that adsorb(s) i	nto the soil.
12.5. Other adverse effects		
No additional information available		
SECTION 13: Disposal considerations		
13.1. Disposal methods Product/Packaging disposal recommendations :	Dispose in a safe manner in accordance	with local/national regulations
SECTION 14: Transport information		man local mational regulations.
In accordance with DOT / TDG / IMDG / IATA 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		
Nuline 13-92 (Mixture)		
Note	This information must be included in all	SDS's that are copied and distributed for this material.
All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for:		
Aluminum - metal powder	CAS-No. 7429-90-5	1 – 5%
magnesium, metal	CAS-No. 7439-95-4	1 – 5%
Phenolic Resin (108-95-2)		
Subject to reporting requirements of United States SARA 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	

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Phenolic Resin	(108-95-2)	
SARA Section 302 (TPQ)	Threshold Planning Quantity	10000 lb 500lb if the substance is solid in powder form with particle size less than 100 microns, or is in solution or molten form
Aluminum - met	al powder (7429-90-5)	
Note		This information must be included in all SDS's that are copied and distributed for this material.
15.2. Internation	al regulations	
CANADA		
Magnesium Oxid	de (1309-48-4)	
Listed on the Canadian DSL (Domestic Substances List)		
graphite (7782-42-5)		
Listed on the Canad	dian DSL (Domestic Substances Lis	st)
Phenolic Resin	(108-95-2)	
Listed on the Canadian DSL (Domestic Substances List)		t)
EU-Regulations No additional inform National regulation No additional inform	S	
15.3. US State re	gulations	
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 Hazar Substance List; U.S Pennsylvania - RTK (Right to Know) List		U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous
SECTION 16: C	other information	
		y, March 26, 2012 / Rules and Regulations
Revision date Other information		6/23/2023 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-phra	ses	
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.