

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						
Product form	: Mixture					
Product name	: Nuline 3-99					
CAS-No.	: Mixture					
Product code Other means of identification	: 4812 - Mix3-9	9 I Magnesia-Carb	on Brick			
1.2. Recommended use and restrictions on		i Magnesia-Carb				
Use of the substance/mixture	: Refractory Bri	ck				
Recommended use	: 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 Outside USA	/ ONLY (CHEMT & Canada +1 703		Canada 1-80	0-424-9300	
SECTION 2: Hazard(s) identification						
2.1. Classification of the substance or mixt	ure					
GHS US classification Skin corrosion/irritation Category 2		H315	Causes ski	n irritation		
Serious eye damage/eye irritation Category 2B Specific target organ toxicity – Single exposure, Cate Respiratory tract irritation	egory 3,	H320 H335	Causes eye		tation	
Full text of H statements : see section 16	ionomy of tomo	unto.				
2.2. GHS Label elements, including precaut	ionary stateme	ents				
GHS US labeling Hazard pictograms (GHS US)						
ignal word (GHS US) : Warning azard statements (GHS US) : H315 - Causes skin irritation H320 - Causes eye irritation H335 - May cause respiratory irritation						
Precautionary statements (GHS US)	: P280 - Wear e			es, Safety sho	es.	
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 of	on ingredients	\$				
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			7782-42-5	10 – 20	Not classified	
Aluminum - metal powder			7429-90-5	1-5	Not classified	
Phenolic Resin magnesium, metal			108-95-2 7439-95-4	1 – 5 1 – 5	Not classified Not classified	
Full text of hazard classes and H-statements : see so	ection 16	0/0-110	1-00-00-4	1-5		

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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 : Gently wash with plenty of soap and water. First-aid measures after eye contact : 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 (acute 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 media Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.
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 : Gently wash with plenty of soap and water. First-aid measures after ingestion : 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 (acute 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 media Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.
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Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.
Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media : No unsuitable extinguishing media known.
5.2. Specific hazards arising from the chemical
Fire hazard : Non-flammable. Do not breathe fumes from fires or vapors from decomposition.
5.3. Special protective equipment and precautions for fire-fighters
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 measures
6.1. Personal precautions, protective equipment and emergency procedures
6.1.1. For non-emergency personnel
Protective equipment : Safety glasses. Protective gloves. Safety shoes.
Protective equipment: Safety glasses. Protective gloves. Safety shoes.Emergency procedures: Avoid contact with skin and eyes.
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Protective equipment : Safety glasses. Protective gloves. Safety shoes. Emergency procedures : Avoid contact with skin and eyes. 6.1.2. For emergency responders : Equip cleanup crew with proper protection. Protective equipment : Equip cleanup crew with proper protection. Emergency procedures : Collect spillage. On land, sweep or shovel into suitable containers.
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Protective equipment : Safety glasses. Protective gloves. Safety shoes. Emergency procedures : Avoid contact with skin and eyes. 6.1.2. For emergency responders : Equip Cleanup crew with proper protection. Emergency procedures : Collect spillage. On land, sweep or shovel into suitable containers. 6.2. Environmental precautions : Collect spillage. On land, sweep or shovel into suitable containers. 6.3. Methods and material for containment and cleaning up : Collect spillage. 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 : Avoid contact with skin and eyes. Precautions for safe handling : Avoid contact with skin and eyes. Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
Protective equipment : Safety glasses. Protective gloves. Safety shoes. Emergency procedures : Avoid contact with skin and eyes. 6.1.2. For emergency responders : Equip cleanup crew with proper protection. Emergency procedures : Collect spillage. On land, sweep or shovel into suitable containers. 6.2. Environmental precautions : Collect spillage. On land, sweep or shovel into suitable containers. 6.3. Methods and material for containment 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 : 5.2. Environment : 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 : Avoid contact with skin and eyes. Precautions for safe handling : Avoid contact with skin and eyes. Precautions for safe storage, including any incompatibilities : 7.2. Conditions for safe storage, including any incompatibilities :
Protective equipment : Safety glasses. Protective gloves. Safety shoes. Emergency procedures : Avoid contact with skin and eyes. 6.1.2. For emergency responders : Equip cleanup crew with proper protection. Emergency procedures : Collect spillage. On land, sweep or shovel into suitable containers. 6.2. Environmental precautions : Collect spillage. On land, sweep or shovel into suitable containers. 6.3. Methods and material for containment and cleaning up : Collect spillage. 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 : Avoid contact with skin and eyes. 7.1. Precautions for safe handling : Avoid contact with skin and eyes. Hygiene measures : Wash hands and other exposed areas with mild scap and water before eating, drinking or smoking and when leaving work. 7.2. Conditions for safe storage, including any incompatibilities : Store this product in a dry location where it can be protected from the elements. Incompatible products
Protective equipment : Safety glasses. Protective gloves. Safety shoes. Emergency procedures : Avoid contact with skin and eyes. 6.1.2. For emergency responders : Equip cleanup crew with proper protection. Emergency procedures : Collect spillage. On land, sweep or shovel into suitable containers. 6.2. Environmental precautions : Collect spillage. On land, sweep or shovel into suitable containers. 6.3. Methods and material for containment and cleaning up : Collect spillage. For containment : Collect spillage. Methods for cleaning up : Mechanically recover the product. 6.4. Reference to other sections : Mechanically recover the product. SECTION 7: Handling and storage : Avoid contact with skin and eyes. 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 any incompatibilities : Store this product in a dry location where it can be protected from the elements.

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	-		
Nuline 3-99 (Mixture)			
No additional information available			
Magnesium Oxide (1309-48-4)			
USA - ACGIH - Occupational Exposure Limits			
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			
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			
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	: Dust when sawing or tear out. Provide adequate ventilation to minimize dust concentrations.		
8.3. Individual protection measures/Persor	nal protective equipment		
Personal protective equipment: Avoid all unnecessary exposure.			
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 m			
SECTION 9: Physical and chemical pro	·		
9.1. Information on basic physical and che			
Physical state Appearance	: Solid : Solid in various shapes.		
Color	: Black		
Odor	: Resin Odor		
Odor threshold pH	: No data available : No data available		
Melting point	: > 2800 °F		
Freezing point	: No data available		
Boiling point Flash point	: No data available : No data available		
Relative evaporation rate (butyl acetate=1)	: No data available		
Flammability (solid, gas)	: Not flammable.		
Vapor pressure Relative vapor density at 20°C	: No data available : No data available		
Relative density	: ≈ 2.9		
Solubility	: Insoluble in water.		
Partition coefficient n-octanol/water (Log Pow) Auto-ignition temperature	: No data available : No data available		
Decomposition temperature	: No data available		
N			
Viscosity, kinematic Viscosity, dynamic	: No data available : No data available		

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Explosion limits	: No data available
Explosive properties	: No data available
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 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 idehyde, phenol, alcohols, glycols, and other solvents.
SECTION 11: Toxicological information	
11.1. Information on toxicological effects	
	: Not classified
Acute toxicity (dermal) Acute toxicity (inhalation)	: 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/m ³ air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental
Skin corrosion/irritation	value, Inhalation (dust)) : Causes skin irritation.
	. Causes skin initiation.
Magnesium Oxide (1309-48-4) pH	11 (10 %)
graphite (7782-42-5)	
pH	7 (1.3 %)
Serious eye damage/irritation	: Causes eye irritation.
Magnesium Oxide (1309-48-4)	
pH	11 (10 %)
graphite (7782-42-5)	
pH	7 (1.3 %)
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Phenolic Resin (108-95-2)	
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause respiratory irritation.
STOT-repeated exposure	Not classified
Aspiration hazard	: Not classified : No data available
Viscosity, kinematic	
Magnesium Oxide (1309-48-4) Viscosity, kinematic	Not applicable (solid)
	No additional information available

Most Important Symptoms/Effects

: No additional information available.

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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	
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)		
BCF - Other aquatic organisms [1]	41 – 44 (Lamellibranchiata, Intestines)	
	41 – 44 (Lamenibranchiata, intestines)	
12.4. Mobility in soil		
Magnesium Oxide (1309-48-4)		
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) into the soil.	
12.5. Other adverse effects		
No additional information available		
SECTION 13: Disposal considerations		
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		
Department of Transportation (DOT)		
In accordance with DOT		
Not regulated		
Transportation of Dangerous Goods		
Not regulated		

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	register / vol. //, No. 30 / Monday, March		
Transport by sea			
Not regulated			
Air transport			
Not regulated			
	Regulatory information		
15.1. US Federal	l regulations		
Nuline 3-99 (Mix	(ture)		
Note		This information must be inclu	uded in all SDS's that are copied and distributed for this material.
		s Active on the United States E	nvironmental Protection Agency Toxic Substances Control Act
(TSCA) inventory, e			
Aluminum - metal p	bowder	CAS-No. 7429-90-5	1 – 5%
magnesium, metal		CAS-No. 7439-95-4	1 – 5%
Dhanalia Daain	(409.05.2)		
Phenolic Resin			
Subject to reporting	g requirements of United States SAF	KA Section 313	
	ardous Air Pollutant (HAPS)	4000 lb	
CERCLA RQ		1000 lb	
RQ (Reportable qui	antity, section 304 of EPA's List of	1000 lb	
SARA Section 302	Threshold Planning Quantity	10000 lb 500lb if the substan	ce is solid in powder form with particle size less than 100 microns,
(TPQ)	3	or is in solution or molten forr	
		•	
Aluminum - met	tal powder (7429-90-5)		
Note		This information must be inclu	uded in all SDS's that are copied and distributed for this material.
15.2. Internation	al regulations		
	lai regulations		
CANADA			
Magnesium Oxi			
Listed on the Cana	dian DSL (Domestic Substances Lis	st)	
graphite (7782-4			
Listed on the Cana	dian DSL (Domestic Substances Lis	st)	
Phenolic Resin	(108-95-2)		
	dian DSL (Domestic Substances Lis	st)	
EU-Regulations	(/	
No additional inform	nation available		
National regulation			
No additional inform			
15.3. US State re	egulations		
Component		State or local regulation	e
Magnesium Oxide	(1300-48-4)		To Know List; U.S New Jersey - Right to Know Hazardous
Magnesium Oxide	(1309-40-4)	-	vlvania - RTK (Right to Know) List
Graphite (7782-42-	5)		To Know List; U.S New Jersey - Right to Know Hazardous
Graphile (1102-42-	-5)		ylvania - RTK (Right to Know) List
Phenolic Resin (10	9 05 2)	LLS Massachusotte Pight	To Know List; U.S New Jersey - Right to Know Hazardous
	6-95-2)		ylvania - RTK (Right to Know) List
SECTION 46. C			
	Other information	March 00, 0010 (D. J.	De mulationer
	al Register / Vol. 77, No. 58 / Monday		Regulations
Revision date		6/9/2023	a the state of a second of the second state of the
Other information		Report language name. Englis versions, the English version s	sh. In the event of any conflict between English and other language shall prevail.
Full text of H-phra		, <u> </u>	·
H315	Causes skin irritation		
H320	Causes eye irritation		
H335	May cause respiratory irritation		
Safety Data Sheet (SDS) LISA		

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.