

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 7/10/2023 Revision date: 7/10/2023 Supersedes: 1/12/2021

SECTION 1: Identification	
1.1. Identification	
Product form	: Mixture
Product name	: Nuline R-5 TL0924
CAS-No. Product code	: Mixture : 7465
Other means of identification	: Resin Bonded Magnesia-Carbon Brick
1.2. Recommended use and restrictions on	
Jse of the substance/mixture	: Refractory Brick
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.co</u>	<u>om</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	
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, Cate 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 precauti	onary statements
GHS US labelling 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 cla	ssification
No additional information available	
2.4. Unknown acute toxicity (GHS US)	
No additional information available	
SECTION 3: Composition/information o	n 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
Phenolic Resin	CAS-No.: 108-95-2 1 – 5 Not classified CAS-No.: 7782-42-5 1 – 5 Not classified
graphite Full text of hazard classes and H-statements : see se	
SECTION 4: First-aid measures	
4.1. Description of first aid measures First-aid measures general	Never give anything by mouth to an unconscious parson. If you fool upwell, eack modical advis
First-aid measures general	 Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advid Dust when sawing or tear out. Remove the victim into fresh air.

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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 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 effect	cts (acute and delayed)
No additional information available	
4.3. Immediate medical attention and sp	ecial treatment, if necessary
No additional information available	
SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguish	
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 ch Fire hazard	
	: Non-flammable. Do not breathe fumes from fires or vapours from decomposition.
5.3. Special protective equipment and p	
Firefighting instructions Protection during firefighting Other information	 Exercise caution when fighting any chemical fire. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. 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 mea	sures
6.1. Personal precautions, protective eq	uipment 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	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 containme	
For containment Methods for cleaning up	Collect spillage. 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, includi	
Storage conditions Incompatible products Incompatible materials	 Store this product in a dry location where it can be protected from the elements. Strong acids. Oxidizing agents and strong acids.
SECTION 8: Exposure controls/pers	
8.1. Control parameters	
Nuline R-5 TL0924 (Mixture)	
No additional information available	

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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	
8.2. Appropriate engineering controls	
	: Dust when sawing or tear out. Provide adequate ventilation to minimize dust concentrations.
8.3. Individual protection measures/Persona	I protective equipment
Personal protective equipment: Avoid all unnecessary exposure.	
Hand protection:	
Wear protective gloves.	
Eve 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 mas	sk
SECTION 9: Physical and chemical prop	perties
9.1. Information on basic physical and chem	ical properties
Physical state	: Solid
Appearance Colour	: Solid in various shapes. : Black
Odour	: Resin Odor
Odour threshold	: No data available
pH Matting point	: No data available
Melting point Freezing point	: > 2800 °F : No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas) Vapour pressure	: Not flammable. : No data available
Relative vapour density at 20°C	: No data available
Relative density	: ≈ 2.9
Solubility	: Insoluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature Decomposition temperature	: No data available : No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive limits	: No data available
Explosive properties Oxidising properties	: No data available : No data available
9.2. Other information	
No additional information available	

No additional information available

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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	
The phenolic resin binder may undergo incomplete com apprise the customer/user of the potential for incomplete	bustion 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.
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 bodyweight (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 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 %)
	Causes eye irritation.
Magnesium Oxide (1309-48-4)	
pH	11 (10 %)
graphite (7782-42-5)	
рН	7 (1.3 %)
'	Not classified
	Not classified
- · ·	Not classified
Phenolic Resin (108-95-2)	
IARC group	3 - Not classifiable
	Not classified
	May cause respiratory irritation.
	Not classified
	Not classified
Viscosity, kinematic :	No data available

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Magnesium Oxide (1309-48-4)	
Viscosity, kinematic	Not applicable (solid)
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
12.3. Bioaccumulative potential	
Magnesium Oxide (1309-48-4)	
Bioaccumulative potential	No bioaccumulation data available.
graphite (7782-42-5)	
Bioaccumulative potential	Not bioaccumulative.
12.4. Mobility in soil	
Magnesium Oxide (1309-48-4)	
Surface tension	No data available in the literature
Ecology - soil	No data available.
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 Transport by sea Not regulated	

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Air transport Not regulated SECTION 15: Regulatory information	
15.1. US Federal regulations	
Nuline R-5 TL0924 (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

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
SARA Section 302 Threshold Planning Quantity (TPQ)	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
15.2. International regulations	
CANADA	
Magnesium Oxide (1309-48-4)	
Listed on the Canadian DSL (Domestic Substances List)	

graphite (7782-42-5)

Listed on the Canadian DSL (Domestic Substances List)

Phenolic Resin (108-95-2)	
Listed on the Canadian DSL (Domestic Substances List)	
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	Manday March 20, 2040 / Dulas and Degulations

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Revision date	: 7/10/2023	
Other information	: Report language name. English. In the event of any conflict between the English and other	
	language versions, the English version shall prevail.	
Full text of H-statements		
H315	Causes skin irritation.	

H320	Causes eye irritation
H335	May cause respiratory irritation.
Safaty Data Sheet (SDS) LISA	

Satety 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.