## Nuline R-10 SA

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-10 SA
CAS-No.
Mixture
Product code
2508 - Mix3319
Other means of identification

### 1.2. Recommended use and restrictions on use

| Use of the substance/mixture | $:$ Refractory Brick |
| :--- | :--- |
| Recommended use | $:$ Industrial use |
| 1.3. Supplier  |  |
| Ruser |  |

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One Robinson Plaza, Suite 300
6600 Steubenville Pike
Pittsburgh, PA, 15205
United States
412-494-4491
SDS@RescoProducts.com - WWW.RescoProducts.com
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 mixture

GHS-US classification

Skin corrosion/irritation, Category 2 H315
Serious eye damage/eye irritation, Category 2B
Specific target organ toxicity - Single exposure, Category 3,
Respiratory tract irritation
Full text of H-statements: see section 16

Causes skin irritation.
Causes eye irritation
May cause respiratory irritation.
2.2. GHS Label elements, including precautionary 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.
: P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements (GHS US)
2.3. Other hazards which do not result in classification

No additional information available
2.4. Unknown acute toxicity (GHS US)

No additional information available
SECTION 3: Composition/information 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 | CAS-No.: 7782-42-5 | $5-10$ | Not classified |
| Phenolic Resin | CAS-No.: 108-95-2 | $1-5$ | Not classified |
| Aluminum - metal powder | CAS-No.: 7429-90-5 | $1-5$ | Not classified |
| Si | CAS-No.: 7440-21-3 | $1-5$ | Not classified |

Full text of hazard classes and H-statements : see section 16

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## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

First-aid measures general
First-aid measures after inhalation
First-aid measures after skin contact
First-aid measures after eye contact
First-aid measures after ingestion
: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.
: 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.
: Rinse mouth with water. Do not induce vomiting.

### 4.2. Most important symptoms and effects (acute and delayed)

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. |
| :--- | :--- |
| 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 vapours from decomposition.
5.3. Special protective equipment and precautions for fire-fighters

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.


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| Nuline R-10 SA (Mixture) |  |
| :---: | :---: |
| No additional information available |  |
| Magnesium Oxide (1309-48-4) |  |
| USA - ACGIH - Occupational Exposure Limits |  |
| ACGIH OEL TWA | $10 \mathrm{mg} / \mathrm{m}^{3}$ inhalable dust |
| USA - OSHA - Occupational Exposure Limits |  |
| OSHA PEL TWA [1] | $10 \mathrm{mg} / \mathrm{m}^{3}$ respirable dust |
| graphite (7782-42-5) |  |
| USA - ACGIH - Occupational Exposure Limits |  |
| ACGIH OEL TWA | $2 \mathrm{mg} / \mathrm{m}^{3}$ (Respirable frac |
| Phenolic Resin (108-95-2) |  |
| No additional information available |  |
| Aluminum - metal powder (7429-90-5) |  |
| USA - ACGIH - Occupational Exposure Limits |  |
| ACGIH OEL TWA | $1 \mathrm{mg} / \mathrm{m}^{3}$ (Respirable frac |
| Si (7440-21-3) |  |
| No additional information available |  |
| 8.2. Appropriate engineering controls |  |
| Appropriate engineering controls <br> : Dust when sawing or tear out. Provide adequate ventilation to minimize dust concentratio 8.3. Individual protection measures/Personal protective equipment |  |
|  |  |
| Personal protective equipment: <br> 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 mask |  |
| SECTION 9: Physical and chemical properties |  |
| 9.1. Information on basic physical and chemical properties |  |
| Physical state | Solid |
| Appearance | Solid in various shapes. |
| Colour | Black |
| Odour | Resin Odor |
| Odour threshold | No data available |
| pH | No data available |
| Melting point | $>2800{ }^{\circ} \mathrm{F}$ |
| Freezing point | No data available |
| Boiling point | No data available |
| Flash point | No data available |
| Relative evaporation rate (butylacetate=1) | No data available |
| Flammability (solid, gas) | Not flammable. |
| Vapour pressure | No data available |
| Relative vapour density at $20^{\circ} \mathrm{C}$ | No data available |
| Relative density |  |
| Solubility | Insoluble in water. |

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Partition coefficient n-octanol/water (Log Pow) : No data available
Auto-ignition temperature
Decomposition temperature
No data available
Viscosity, kinematic No data available

Viscosity, dynamic No data available

Explosive limits
Explosive properties No data available
No data available
Oxidising properties

## No data available

: 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

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 11: Toxicological information

11.1. Information on toxicological effects

Skin corrosion/irritation : Causes skin irritation.

| Magnesium Oxide (1309-48-4) |  |
| :--- | :--- |
| pH | $11(10 \%)$ |
| graphite (7782-42-5) | $7(1.3 \%)$ |
| pH | $:$ Causes eye irritation. |
| Serious eye damage/irritation |  |
| Magnesium Oxide (1309-48-4) | $11(10 \%)$ |
| pH |  |

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| Si (7440-21-3) |  |
| :---: | :---: |
| Persistence and degradability | Biodegradability: not applicable. |
| Chemical oxygen demand (COD) | Not applicable (inorganic) |
| ThOD | Not applicable (inorganic) |
| 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. |
| Si (7440-21-3) |  |
| 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. |
| Aluminum - metal powder (7429-90-5) |  |
| Ecology - soil | Contains component(s) that adsorb(s) into the soil. |
| Si (7440-21-3) |  |
| Ecology - soil | Highly mobile in 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) <br> In accordance with DOT <br> Not regulated <br> Transportation of Dangerous Goods <br> Not regulated <br> Transport by sea <br> Not regulated <br> Air transport <br> Not regulated |  |
| SECTION 15: Regulatory information |  |
| 15.1. US Federal regulations |  |
| Nuline R-10 SA (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

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| Phenolic Resin (108-95-2) |  |
| :--- | :--- |
| Subject to reporting requirements of United States SARA Section 313 <br> Listed on EPA Hazardous Air Pollutant (HAPS) |  |
| CERCLA RQ | 1000 lb |
| RQ (Reportable quantity, section 304 of EPA's List of <br> Lists) | 1000 lb |
| SARA Section 302 Threshold Planning Quantity <br> (TPQ) | 10000 lb 500 lb if the substance is solid in powder form with particle size less than 100 microns, <br> or is in solution or molten form |

### 15.2. International regulations

## CANADA

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Magnesium Oxide (1309-48-4)
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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)

| Si (7440-21-3) |  |
| :---: | :---: |
| 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 |
| Si (7440-21-3) | U.S. - New Jersey - Right to Know Hazardous Substance List |
| SECTION 16: Other information |  |
| according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations |  |
| 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. |

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.

