

nora PU MR95 Adhesive, Part A

Safety Data Sheet

acc. to OSHA 29 CFR 1910.1200

Revision date: 02/08/2022 Supersedes date: n/a

Revision number: 1.0

nora[®]
by **Interface**[®]

SECTION 1: IDENTIFICATION

Product name: nora[®] PU MR95[™]

Relevant identified uses of the substance or mixture and uses advised against:

- Recommended use: No information available.
- Uses advised against: No information available.

Details of the supplier of the safety data sheet:

- Responsible Party:
nora systems, Inc.
9 Northeastern Blvd.
Salem, NH 03079
T: 1.800.332.NORA

Information department: see Responsible Party

Emergency telephone number:

- CHEMTREC (Transport/Environmental) 1.800.424.9300 / (Outside U.S.) 1.703.527.3887
- Rocky Mountain Poison Center: 1.866.767.5089

SECTION 2: HAZARD(S) IDENTIFICATION

Classification of the substance or mixture:

- Not a dangerous substance or mixture according to OSHA 29 CFR 1910.1200.

Label Elements:

- Emergency Overview:
Not a dangerous substance or mixture according to OSHA 29 CFR 1910.1200.
Appearance: Paste
Physical state: Liquid
Odor: No information available.

Precautional Statements:

- Prevention: Not applicable.
- Response: Not applicable.
- Storage: Not applicable.
- Disposal: Not applicable.

Hazards not otherwise classified (HNOC):

- Not applicable.

Other information:

- Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substances:

- Not applicable

Mixtures:

Chemical name	CAS No	Weight-%
Limestone	1317-65-3	30 – 60
Castor oil	8001-79-4	15 – 40
Carbonic acid, calcium salt (1:1)	471-34-1	1 – 5
Aluminum oxide (Al2O3)	1344-28-1	1 – 5

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Quartz	14808-60-7	0.1 – 1
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**The exact percentage (concentration) of composition has been withheld as a trade secret*

SECTION 4: FIRST-AID MEASURES

Description of first aid measures:

- Eye contact: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Hold eyelids apart and consult a physician.
- Skin contact: Wash off immediately with soap and plenty of water. Get medical attention if symptoms occur.
- Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- Ingestion: If swallowed, rinse mouth with water (only if the person is conscious). If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. Most important symptoms and effects, both acute and delayed:
- Self-protection of the first aider: Use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed:

- Symptoms: None known.

Indications of any immediate medical attention and special treatment needed:

- Note to physicians: Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing. Treat symptomatically.

Reference to other sections: Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION. Section 11: TOXICOLOGY INFORMATION.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing media:

- Suitable Extinguishing Media: Carbon dioxide (CO₂). Extinguishing powder. Water spray or fog. Alcohol resistant foam.
- Unsuitable extinguishing media: Strong waterjet.

Special hazards arising from the substance or mixture:

- Specific hazards arising from the chemical: Thermal decomposition can lead to release of toxic/corrosive gases and vapors. Carbon monoxide. Carbon dioxide (CO₂).
- Hazardous combustion products: Carbon dioxide (CO₂).

Explosion data:

- Sensitivity to mechanical impact: None.
- Sensitivity to static discharge: None.

Advice for firefighters:

- Special protective equipment for fire-fighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:

- Personal precautions: Use personal protection equipment. Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling.

Environmental precautions:

- Environmental precautions: Prevent entry into waterways, sewers, basements, or confined areas. Do not allow to enter into soil/subsoil. See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up:

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- Methods for containment: Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).
- Methods for cleaning up: Use personal protective equipment as required. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly.

Reference to other sections: Section 7: HANDLING AND STORAGE. Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION. Section 13: DISPOSAL CONSIDERATIONS

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling:

- Advice on safe handling: Use personal protective equipment as required. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink, or smoke when using this product. Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes, or clothing. Wash hands thoroughly after handling.

Conditions for safe storage, including any incompatibilities:

- Storage Conditions: Keep in properly labeled containers. Keep away from food, drink, and animal feeding stuffs. Keep containers tightly closed in a cool, well-ventilated place.
- Recommended storage temperature: Keep from freezing. Recommended storage temperature. 50 - 95 °F.
- Incompatible materials: None known.

Specific end use(s):

- Other information: No information known.

References to other sections: Section 10: STABILITY AND REACTIVITY. Section 13: DISPOSAL CONSIDERATIONS.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

- This product contains substances which in their raw state are powder form, however in this product they are in a non-respirable form. Inhalation of powder/dust particles is unlikely to occur from exposure to this product. Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing.

Chemical name	ACGIH TLV	NIOSH	OSHA PEL	Mexico
Limestone 1317-65-3	No data available	TWA: 10 mg/m ³ total dust TWA: 5 mg/m ³ respirable dust	TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable dust	-
Carbonic acid, calcium salt (1:1) 471-34-1	No data available	TWA: 10 mg/m ³ total dust TWA: 5 mg/m ³ respirable dust	-	-
Aluminum oxide (Al ₂ O ₃) 1344-28-1	TWA: 1 mg/m ³ respirable particulate matter	-	TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable dust	TWA: 10 mg/m ³ TWA: 1 ppm
Quartz 14808-60-7	TWA: 0.025 mg/m ³ respirable particulate matter	IDLH: 50 mg/m ³ respirable dust TWA: 0.05 mg/m ³ respirable dust	TWA: 50 µg/m ³ TWA: 50 µg/m ³ excludes construction work, agricultural operations, and exposures that result from the processing of sorptive clays: (250)/(%SiO ₂ + 5)	TWA: 0.025 mg/m ³

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			mppcf TWA respirable fraction: (10)/(%SiO ₂ + 2) mg/m ³ TWA respirable fraction	
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Chemical name	Argentina	Brazil	Chile	Venezuela
Limestone 1317-65-3	TWA: 10 mg/m ³	-	TWA: 7 mg/m ³	-
Carbonic acid, calcium salt (1:1) 471-34-1	-	-	-	TWA: 10 mg/m ³
Aluminum oxide (Al ₂ O ₃) 1344-28-1	TWA: 10 mg/m ³	TWA: 1 mg/m ³	-	TWA: 10 mg/m ³
Quartz 14808-60-7	TWA: 0.05 mg/m ³	TWA: 0.025 mg/m ³	TWA: 0.08 mg/m ³	TWA: 0.025 mg/m ³

Chemical name	ACGIH TLV	NIOSH	OSHA PEL	Mexico
Methyl alcohol 67-56-1	STEL: 250 ppm TWA: 200 ppm S*	IDLH: 6000 ppm TWA: 200 ppm TWA: 260 mg/m ³ STEL: 250 ppm STEL: 325 mg/m ³	TWA: 200 ppm TWA: 260 mg/m ³	TWA: 200 ppm STEL: 250 ppm

Chemical name	Argentina	Brazil	Chile	Venezuela
Methyl alcohol 67-56-1	TWA: 200 ppm Skin STEL: 250 ppm	TWA: 156 ppm TWA: 200 mg/m ³ Skin	TWA: 175 ppm TWA: 229 mg/m ³ Skin	Skin STEL: 250 ppm TWA: 200 ppm

Exposure controls:

- Other Information: Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon Curing.
- Engineering controls: Showers, Eyewash stations, Ventilation systems.

Individual protection measures, such as personal protective equipment (PPE):

- Eye/face protection: Wear safety glasses with side shields (or goggles).
- Skin and body protection: Wear suitable chemical resistant gloves. The selection of suitable gloves does not only depend on the material, but also on further marks of quality and various manufacturers.
- Respiratory protection: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
- General hygiene considerations: Use personal protective equipment as required. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink, or smoke when using this product. Avoid contact with skin, eyes, or clothing. Wash hands thoroughly after handling. Take off contaminated clothing and wash before reuse. Regular cleaning of equipment, work area and clothing is recommended.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

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- Physical state: Paste
- Appearance: Liquid
- Color: No information available.
- Odor: No information available.
- Odor threshold: No information available.

Property	Values	Remarks / Method
pH	No data available.	None known.
Melting point / freezing point	No data available.	None known.
Boiling point and boiling range	No data available.	None known.
Flash point	= 260 °C / 500 °F	
Evaporation rate	No data available.	None known.
Flammability (solid, gas)	Not applicable for liquids.	
Flammability Limit in Air		None known.
Upper flammability or explosive limits	No data available.	
Lower flammability of explosive limits	No data available.	
Vapor pressure	No data available.	None known.
Vapor density	No data available.	None known.
Relative density	No data available.	None known.
Water solubility	No data available.	None known.
Solubility(ies)	No data available.	None known.
Partition coefficient	No data available.	None known.
Autoignition temperature	No data available.	None known.
Decomposition temperature	-	None known.
Kinematic viscosity	No data available.	None known.
Dynamic viscosity	450 - 650 Pa.s	
Explosive properties	No information available.	
Oxidizing properties	No information available.	

Other information:

- Softening point: No information available.
- Molecular weight: No information available.
- Solvent content (%): No information available.
- Solid content (%): No information available.
- Density: 1.65 g/cm³
- VOC Content (%): 0% 0 g/L

SECTION 10: STABILITY AND REACTIVITY

Reactivity: None under normal use conditions.

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: None known.

Conditions to avoid: Exposure to air or moisture over prolonged periods.

Incompatible materials: None known.

Hazardous decomposition products: None under normal use conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

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Information on toxicological effects:

Product Information: No data available.

- Inhalation: Based on available data, the classification criteria are not met.
- Eye contact: Based on available data, the classification criteria are not met.
- Skin contact: Based on available data, the classification criteria are not met.
- Ingestion: Based on available data, the classification criteria are not met.

Component Information:

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Limestone 1317-65-3	>5000 mg/Kg (Rattus)	-	-
Carbonic acid, calcium salt (1:1) 471-34-1	LD50 > 2000 mg/kg (Rattus) OECD 420	LD50 >2000 mg/kg (Rattus) OECD 402	LC50 (4h) >3mg/ml (Rattus)
Aluminum oxide (Al ₂ O ₃) 1344-28-1	>5000 mg/kg (Rattus)	-	-
Quartz 14808-60-7	>2000 mg/kg (Rattus)	-	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure:

- Symptoms: No information available.
- Skin corrosion/irritation: No information available.
- Serious eye damage/eye irritation: No information available.
- Irritation: No information available.
- Corrosivity: No information available.
- Sensitization: No information available.
- Germ cell mutagenicity: No information available.
- Reproductive toxicity: No information available.
- Developmental toxicity: No information available.
- Teratogenicity: No information available.
- STOT – single exposure: No information available.
- STOT – repeated exposure: No information available.
- Chronic toxicity: No information available.
- Target organ effects: No information available.
- Aspiration hazard: Not applicable.
- Carcinogenicity: The table below indicates whether each agency has listed any ingredient as a carcinogen. As Quartz (14808-60-7) is inextricably bound in the polymer matrix, it is not expected to be available as an airborne hazard (dust, mist, or spray) under normal condition of uses.

Chemical name	ACGIH	IARC	NTP	OSHA
Quartz 14808-60-7	A2	Group 1	Known	X

Legend:

ACGIH (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

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NTP (National Toxicology Program)

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

SECTION 12: ECOLOGICAL INFORMATION

Toxicity:

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Limestone 1317-65-3	CE50 (72h) >200mg/L Algae (Desmondasmus subspicatus)	CL50 (96h)>10000mg/L (Oncorhynchus mykiss)		CE50 (48h) >1000 mg/L Daphnia Magna
Carbonic acid, calcium salt (1:1) 471-34-1	IC50 72H Algae >1000 mg/l	CL50 96H >1000 mg/l		EC50 48H Daphnia >1000 mg/l

Persistence and degradability: No information available.

Bioaccumulative potential: No information available.

Mobility in soil: No information available.

Other adverse effects: No information available.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods:

- Disposal of Wastes: It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.
- Contaminated packaging: Dispose of in accordance with federal, state, and local regulations.

SECTION 14: TRANSPORT INFORMATION

DOT: Not regulated.

IATA: Not regulated.

IMDG: Not regulated.

SECTION 15: REGULATORY INFORMATION

Global Inventories:

TSCA	Listed
DSL	Listed

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL - Canadian Domestic Substances List

Listed - The components of this product are either listed or exempt from listing on inventory.

Not Listed - One or more components of this product are not listed on inventory.

US Federal Regulations:

SARA 313:

- Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal regulations, Part 372.

Chemical name	CAS No.
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Aluminum oxide (Al2O3)	1344-28-1
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SARA 311/312 Hazard Categories:

- Classification is shown in section 2 of this SDS.

Europe:

- Restrictions of Use of Hazardous Substances (RoHS) Directive 2011/65/EU: This product does not contain Lead (7439-92-1), Cadmium (7440-43-9), Mercury (7439-97-6), Hexavalent chromium (7440-47-3), Polybrominated biphenyls (PBB), and Polybrominated diphenyl ethers (PBDE) above the regulated limit mentioned in this regulation.

SVHC:

- Substances of Very High Concern for Authorization: This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59).

SECTION 16: OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet: No information available.

Key Literature references and sources for data: No information available.

Contact: see Responsible Party

Revision date: 02/08/2022

Revision note: Not applicable.

Training advice: No information available.

Further information: No information available.

Disclaimer: The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

End of Safety Data Sheet