

Spotlight Adhesive 335 A a/k/a nora® 355 A

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

Revision Date: 05/11/2015 Version: 2.0

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1.1. Product Identifier

Product Form: Mixture

Product Name: nora® 355 A

1.2. Intended Use of the Product

Use of the Substance/Mixture: No use is specified.

1.3. Name, Address, and Telephone of the Responsible Party Company

nora systems, Inc.

9 Northeastern Blvd

Salem, NH 03079

T 800-332-NORA

www.nora.com/us

1.4. Emergency Telephone Number

Emergency Number: 800-424-9300 CHEMTREC

2.1. Classification of the Substance or Mixture Classification (GHS-US)

Skin Irrit. 2 H315

Eye Irrit. 2A H319

Skin Sens. 1 H317

Repr. 1B H360

Aquatic Acute 3 H402

Aquatic Chronic 3 H412

Full text of H-phrases: see section 16

2.2. Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US):

Signal Word (GHS-US): Danger

Hazard Statements (GHS-US): H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H360 - May damage fertility or the unborn child.

H402 - Harmful to aquatic life.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary Statements (GHS-US): P261 - Avoid breathing vapors, mist, or spray.

P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.

P273 - Avoid release to the environment.

P280 - Wear protective gloves, protective clothing, and eye protection.

P302+P352 - IF ON SKIN: Wash with plenty of water.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

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2.3. Other Hazards

Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

2.4. Unknown Acute Toxicity (GHS-US) Not available

3.1. Substances

Name	Product Identifier	% (w/w)
Bisphenol A-epichlorohydrin polymer	(CAS No) 25068-38-6	10 - 30
Oxirane, methyl-, polymer with oxirane, ether with 1,2-propanediol (2:1), polymer with 1,3-diisocyanatomethylbenzene, nonylphenol-blocked, Polyurethane Prepolymer	(CAS No) 102900-03-8	10 - 30
Alkyl (C12-14) glycidyl ether	(CAS No) 68609-97-2	5 - 10
1-Methyl-2-pyrrolidone	(CAS No) 872-50-4	1 - 5
Phenol, 4-nonyl-, branched	(CAS No) 84852-15-3	0.5 - 1.5
Quartz*	(CAS No) 14808-60-7	0.1 - 1.0

*This product contains a material that may be hazardous when present as an airborne dust. Since this product is in a liquid form, the material is not able to become airborne and cannot be inhaled. Thus, the hazards usually associated with this material are not applicable to this product.

4.1. Description of First Aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).

Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

Skin Contact: Remove contaminated clothing. Gently wash with plenty of soap and water followed by rinsing with water for at least 15 minutes. Call a POISON CENTER or doctor/physician if you feel unwell. Wash contaminated clothing before reuse.

Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Obtain medical attention.

Ingestion: Do NOT induce vomiting. Rinse mouth. Immediately call a POISON

CENTER or doctor/physician.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

General: Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause cancer. May damage fertility.

Inhalation: May cause respiratory irritation.

Skin Contact: Causes skin irritation. Symptoms may include: Redness, pain, swelling, itching, burning, dryness, and dermatitis. May cause an allergic skin reaction.

Eye Contact: Causes serious eye irritation. Symptoms may include: Redness, pain, swelling, itching, burning, tearing, and blurred vision.

Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: May damage fertility or the unborn child.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If you feel unwell, seek medical advice (show the label where possible).

5.1. Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

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5.2. Special Hazards Arising From the Substance or Mixture

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Carbon oxides (CO, CO₂).

Reference to Other Sections

Refer to section 9 for flammability properties.

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid all contact with skin eyes, or clothing. Avoid breathing (vapor, mist, spray).

6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Stop leak if safe to do so. Ventilate area.

6.2. Environmental Precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and Material for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely.

Spills should be contained with mechanical

barriers. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

6.4. Reference to Other Sections

See Section 8, Exposure Controls and Personal Protection. See Section 13, Disposal Considerations.

7.1. Precautions for Safe Handling

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. 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

Technical Measures: Comply with applicable regulations.

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from

direct sunlight, extremely high or low temperatures and incompatible materials. Store in corrosive resistant container with a resistant inner liner.

Incompatible Materials: Strong acids, strong bases, strong oxidizers.

7.3. Specific End Use(s) No use is specified

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

Fire Hazard: Product is not flammable.

Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions are unlikely to occur under normal conditions.

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Quartz (14808-60-7)		
USA ACGIH	ACGIH TWA (mg/m3)	0.025 mg/m3 (respirable fraction)
USA ACGIH	ACGIH chemical	A2 - Suspected Human Carcinogen

	category	
USA OSHA	OSHA PEL (STEL) (mg/m3)	250 mppcf/%SiO ₂ +5, 10mg/m ³ /%SiO ₂ +2
USA NIOSH	NIOSH REL (TWA) (mg/m3)	0.05 mg/m ³ (respirable dust)
USA IDLH	US IDLH (mg/m3)	50 mg/m ³ (respirable dust)
Alberta	OEL TWA (mg/m3)	0.025 mg/m ³ (respirable particulate)
British Columbia	OEL TWA (mg/m3)	0.025 mg/m ³ (respirable)
Manitoba	OEL TWA (mg/m3)	0.025 mg/m ³ (respirable fraction)
New Brunswick	OEL TWA (mg/m3)	0.1 mg/m ³ (respirable fraction)
Newfoundland & Labrador	OEL TWA (mg/m3)	0.025 mg/m ³ (respirable fraction)
Nova Scotia	OEL TWA (mg/m3)	0.025 mg/m ³ (respirable fraction)
Nunavut	OEL TWA (mg/m3)	0.1 mg/m ³ (respirable mass)
Northwest Territories	OEL TWA (mg/m3)	0.1 mg/m ³ (respirable mass)
Ontario	OEL TWA (mg/m3)	0.10 mg/m ³ (designated substances regulation-respirable)
Prince Edward Island	OEL TWA (mg/m3)	0.025 mg/m ³ (respirable fraction)
Québec	VEMP (mg/m3)	0.1 mg/m ³ (respirable dust)
Saskatchewan	OEL TWA (mg/m3)	0.05 mg/m ³ (respirable fraction)
Yukon	OEL TWA (mg/m3)	300 particle/mL
1-Methyl-2-pyrrolidone (872-50-4)		
Ontario	OEL TWA	400
Yukon	OEL STEL (mg/m3)	500
Yukon	OEL STEL (ppm)	125 ppm
Yukon	OEL TWA (mg/m3)	400 mg/m ³
Yukon	OEL TWA	100

8.2. Exposure Controls

Appropriate Engineering Controls: Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

Personal Protective Equipment: Protective goggles. Gloves. Protective clothing.

Insufficient ventilation: wear respiratory protection.

Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear chemically resistant protective gloves.

Eye Protection: Chemical safety goggles.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

Environmental Exposure Controls: Do not allow the product to be released into the environment.

Consumer Exposure Controls: Do not eat, drink or smoke during use.

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9.1. Information on Basic Physical and Chemical Properties

Physical State: Liquid

Appearance: Beige thick liquid

Odor: Not available

Odor Threshold: Not available

pH: Not available

Evaporation Rate: Not available

Melting Point: Not available

Freezing Point: 32 °F (0 °C)

Boiling Point: > 396 °F (202 °C)

Flash Point: > 200 °F (93 °C) (tag closed cup)

Auto-ignition Temperature: Not available

Decomposition Temperature: Not available

Flammability (solid, gas): Not available

Lower Flammable Limit: Not available

Upper Flammable Limit: Not available

Vapor Pressure: Not available

Relative Vapor Density at 20 °C: Not available

Relative Density: Not available

Specific Gravity: 1.45

Solubility: Not available

Partition Coefficient: N-Octanol/Water: Not available

Viscosity: Approximately 90,000 cps

Explosion Data – Sensitivity to Mechanical Impact: Not expected to present an explosion hazard due to mechanical impact.

Explosion Data – Sensitivity to Static Discharge: Not expected to present an explosion hazard due to static discharge.

10.1. Reactivity Hazardous reactions will not occur under normal conditions.

10.2. Chemical Stability Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of Hazardous Reactions Hazardous polymerization will not occur.

10.4. Conditions to Avoid Direct sunlight. Extremely high or low temperatures. Incompatible materials.

10.5. Incompatible Materials Strong acids. Strong bases. Strong oxidizers.

10.6. Hazardous Decomposition Products Carbon oxides (CO, CO₂).

11.1. Information on Toxicological Effects - Product

LD50 and LC50 Data: Not available

Skin Corrosion/Irritation: Causes skin irritation.

Serious Eye Damage/Irritation: Causes serious eye irritation.

Respiratory or Skin Sensitization: May cause an allergic skin reaction.

Germ Cell Mutagenicity: Not classified

Teratogenicity: Not classified

Carcinogenicity: Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Acute Toxicity: Not classified

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Reproductive Toxicity: May damage fertility or the unborn child.

Specific Target Organ Toxicity (Single Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: May cause respiratory irritation.

Symptoms/Injuries After Skin Contact: Causes skin irritation. Symptoms may include: redness, pain, swelling, itching, burning, dryness, and dermatitis. May cause an allergic skin reaction.

Symptoms/Injuries After Eye Contact: Causes serious eye irritation. Symptoms may include: redness, pain, swelling, itching, burning, tearing, and blurred vision.

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: May damage fertility or the unborn child.

11.2. Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

Quartz (14808-60-7)	
LD50 Oral Rat	> 5000 mg/kg

LD50 Dermal Rat	> 5000 mg/kg
Phenol, 4-nonyl-, branched (84852-15-3)	
LD50 Oral Rat	580 mg/kg
LD50 Dermal Rabbit	2031 mg/kg
Bisphenol A-epichlorohydrin polymer (25068-38-6)	
LD50 Oral Rat	> 2000 mg/kg
LD50 Dermal Rat	> 2000 mg/kg
1-Methyl-2-pyrrolidone (872-50-4)	
LD50 Oral Rat	4150 mg/kg
LD50 Dermal Rabbit	> 5000 mg/kg
LC50 Inhalation Rat	5.1 mg/l/4h

12.1. Toxicity

Ecology – General: Harmful to aquatic life.

Phenol, 4-nonyl-, branched (84852-15-3)	
LC50 Fish 1	0.135mg/l (Exposure time: 96 h – Species: Pimephales promelas (flow-through))
EC50 Daphnia 1	0.14 mg/l (Exposure time: 48 h – Species: Daphnia magna)
LC 50 Fish 2	0.1351 mg/l (Exposure time: 96 h – Species: Lepomis macrochirus (flow-through))
Bisphenol A-epichlorohydrin polymer (25068-38-6)	
LOEC (acute)	1 mg/l Daphnia magna
NOEC chronic crustacea	0.3 mg/l Daphnia magna
1-Methyl-2-pyrrolidone (872-50-4)	
LC50 Fish 1	832 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 1	4897 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC 50 Fish 2	1072 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])

12.2. Persistence and Degradability Not available

12.3. Bioaccumulative Potential

Phenol, 4- nonyl- , branched (84852- 15- 3)	
BCF Fish 1	271
Phenol (108- 95- 2)	

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BCF Fish 1	(no significant bioaccumulation)
Log Pow	1.47
1- Methyl- 2- pyrrolidone (872- 50- 4)	
Log Pow	- 0.46 (at 25 °C)

12.4. Mobility in Soil Not available**12.5. Other Adverse Effects**

Other Information: Avoid release to the environment.

13.1. Waste treatment methods

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

Ecology – Waste Materials: Avoid release to the environment.

14.1. In Accordance with DOT Not regulated for transport**14.2. In Accordance with IMDG** Not regulated for transport**14.3. In Accordance with IATA** Not regulated for transport**14.4. In Accordance with TDG** Not regulated for transport**15.1. US Federal Regulations**

SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard
Quartz (14808- 60- 7)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Oxirane,methyl- ,polymerwithoxirane,etherwith1,2- propanediol(2:1),polymerwith1,3- diisocyanatomethylbenzene,nonylphenol- blocked	

(102900- 03- 8),PolyurethanePrepolymer	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Phenol, 4- nonyl- , branched (84852- 15- 3)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Listed on United States SARA Section 313	
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA. S - S - indicates a substance that is identified in a proposed or final Significant New Uses Rule.
SARA Section 313 - Emission Reporting	1.0 %
BisphenolA- epichlorohydrinpolymer(25068- 38- 6)	
Listed on the United States TSCA (Toxic Substance Control Act) inventory	
Alkyl(C12- 14)glycidylether(68609- 97- 2)	
Listed on the United States TSCA (Toxic Substance Control Act) inventory	

EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.
1- Methyl- 2- pyrrolidone (872- 50- 4)	

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Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on United States SARA Section 313	
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.
SARA Section 313 - Emission Reporting	1.0 %

15.2. US State Regulations

Quartz (14808- 60- 7)	
U.S. - California - Proposition 65 - Carcinogens List	WARNING: This product contains chemicals known to the State of California to cause cancer.
1- Methyl- 2- pyrrolidone (872- 50- 4)	
U.S. - California - Proposition 65 - Developmental Toxicity	WARNING: This product contains chemicals known to the State of California to cause birth defects.
Quartz (14808- 60- 7)	
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	

1- Methyl- 2- pyrrolidone (872- 50- 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	

15.3. Canadian Regulations

Quartz (14808- 60- 7)	
Listed on the Canadian DSL (Domestic Substances List) Listed on the Canadian IDL (Ingredient Disclosure List)	
IDL Concentration 1 %	
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects
Oxirane, methyl- , polymer with oxirane, ether with 1,2- propanediol (2:1), polymer with 1,3- diisocyanatomethylbenzene, nonylphenol- blocked (102900- 03- 8), Polyurethane Prepolymer	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects
Phenol, 4- nonyl- , branched (84852- 15- 3)	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects
Bisphenol A- epichlorohydrin polymer (25068- 38- 6)	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS	Class D Division 2 Subdivision B - Toxic material causing other toxic effects
Alkyl (C12- 14) glycidyl ether (68609- 97- 2)	
Listed on the Canadian DSL (Domestic Substances List)	

WHMIS	Class D Division 2 Subdivision B- Toxic material causing other toxic effects
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WHMIS Classification	Class D Division 2 Subd effects Class D Division 2 Subd effects

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1- Methyl- 2- pyrrolidone (872- 50- 4)	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class B Division 3 - Co Class D Division 2 Subd effects Class D Division 2 Subd effects

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

Revision Date: 05/11/2015

Other Information:

This document has been prepared in accordance with the SDS requirements of the OSHA

Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H360	May damage fertility or the unborn child
H402	Harmful to aquatic life
H412	Harmful to aquatic life with long lasting effects

Party Responsible for the Preparation of This Document

nora systems, Inc.

T 800- 332- NORA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

North America GHS US 2012 & WHMIS 2