

**SECTION 1: IDENTIFICATION****1.1. Product Identifier**

Product Form: Mixture  
Product Name: nora® 365 B

**1.2. Intended Use of the Product**

Recommended Use: Adhesive.  
Restrictions on Use: N.A.

**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](http://www.nora.com/us)

**1.4. Emergency Telephone Number**

Emergency Number: 800-424-9300 CHEMTREC (USA)  
613-996-6666 CANUTEC (CAN)

**SECTION 2: HAZARDS IDENTIFICATION****2.1. Classification of the Substance or Mixture****Classification (GHS-US)**

Acute Tox. 4	Harmful if swallowed.
Acute Tox. 4	Harmful in contact with skin.
Skin Corr. 1B	Causes severe skin burns and eye damage.
Eye Dam. 1	Causes serious eye damage.
Resp. Sens. 1	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sens. 1A	May cause an allergic skin reaction.
Repr. 2	Suspected of damaging fertility or the unborn child if inhaled.
Aquatic Acute 1	Very toxic to aquatic life.
Aquatic Chronic 1	Very toxic to aquatic life with long lasting effects.

**2.2. Label Elements****GHS-US Labeling**

Hazard Pictograms (GHS-US):



Signal Word (GHS-US):

Hazard Statements (GHS-US):

Danger

H302 - Harmful if swallowed.  
H312 - Harmful in contact with skin.  
H314 - Causes severe skin burns and eye damage.  
H317 - May cause an allergic skin reaction.  
H318 - Causes serious eye damage.  
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H361 - A Suspected of damaging fertility or the unborn child if inhaled.  
H400 - Very toxic to aquatic life.  
H410 - Very toxic to aquatic life with long lasting effects.

Precautionary Statements (GHS-US):

P201 - Obtain special instructions before use.

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P202 - Do not handle until all safety precautions have been read and understood.  
P260.B - Do not breathe dust.  
P264.2 - Wash skin thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P272 - Contaminated work clothing should not be allowed out of the workplace.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P284 - [In case of inadequate ventilation] wear respiratory protection.  
P301+P312.A - IF SWALLOWED: Call a POISON CENTER if you feel unwell.  
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P302+P352.A - IF ON SKIN: Wash with plenty of water.  
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+P341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310.A - Immediately call a POISON CENTER.  
P321.A - Specific treatment (see supplementary instructions on this label)  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.  
P342+P311.B - If experiencing respiratory symptoms: Call a doctor.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P391 - Collect spillage.  
P405 - Store locked up.  
P501.A - Dispose of contents/container in accordance with applicable regulations.

### 2.3. Ingredients With Unknown Acute Toxicity

None.

### 2.4. Hazards Not Otherwise Classified Identified During the Classification Process

None.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

N.A.

### 3.2. Mixtures

Hazardous components within the meaning of 29 CFR 910.1200 and related classification.

#### List of Components:

Quantity	Name	Identification Number	Classification
60-70 %	4-Nonylphenol, branched	CAS:84852-15-3 EC:284-325-5 Index:601-053-00-8	Repr. 2, H361; Skin Corr. 1B, H314; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302
10-20 %	Aminoethylpiperazine	CAS:140-31-8	Acute Tox. 3, H311; Acute Tox. 4, H302; Skin Corr. 1B, H314; Skin Sens. 1, H317; Aquatic Chronic 3, H412
10-20 %	Fatty acids, C18-unsaturated, dimers, reaction products with Polyethylenepolyamines	CAS:68410-23-1	Skin Irrit. 2, H315; Eye Dam. 1, H318; Aquatic Chronic 2, H411
1-5 %	2,4,6-Tri(dimethylaminomethyl)phenol	CAS:90-72-2	Skin Corr. 1B, H314; Skin Sens. 1A, H317; Aquatic Chronic 3, H412
1-5 %	Triethylene tetramine	CAS:112-24-3	Skin Corr. 1B, H314; Skin Sens. 1,

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			H317; Aquatic Chronic 3, H412; Acute Tox. 4, H312
0.1-1 %	Ethylene diamine	CAS:107-15-3	Flam. Liq. 3, H226; Skin Corr. 1B, H314; Resp. Sens. 1, H334; Skin Sens. 1, H317; Acute Tox. 4, H302; Acute Tox. 4, H312
0.1-1 %	Diethylene triamine	CAS:111-40-0	Skin Corr. 1B, H314; Skin Sens. 1, H317; Acute Tox. 4, H302; Acute Tox. 4, H312

### SECTION 4: FIRST AID MEASURES

#### 4.1. Description of First Aid Measures

In case of skin contact: Immediately take off all contaminated clothing. OBTAIN IMMEDIATE MEDICAL ATTENTION. Remove contaminated clothing immediately and dispose of safely. After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact: After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. Protect uninjured eye.

In case of Ingestion: Give nothing to eat or drink.

In case of Inhalation: Remove casualty to fresh air and keep warm and at rest.

#### 4.2. Most Important Symptoms and Effects, both Acute and Delayed

Eye irritation  
Eye damages  
Skin Irritation  
Erythema

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

In case of accident or un-wellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

### SECTION 5: FIRE-FIGHTING MEASURES

#### 5.1. Extinguishing Media

Suitable Extinguishing Media: Water. Carbon dioxide (CO2).

Unsuitable Extinguishing Media: None in particular.

#### 5.2. Special Hazards Arising From the Chemical

Do not inhale explosion and combustion gases. Burning produces heavy smoke.

Hazardous combustion products: N.A.

Explosive properties: N.A.

Oxidizing properties: N.A.

#### 5.3. Special Protective Equipment and Precautions for Fire-Fighters

Use suitable breathing apparatus. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protection equipment. Remove persons to safety. See protective measures under point 7 and 8.

#### 6.2. Methods and Material for Containment and Cleaning Up

Suitable material for taking up: absorbing material, organic, sand. Wash with plenty of water.

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### SECTION 7: HANDLING AND STORAGE

#### 7.1. Precautions for Safe Handling

Avoid contact with skin and eyes, inhalation of vapors and mists. Exercise the greatest care when handling or opening the container. Don't use empty container before they have been cleaned. Before making transfer operations, assure that there aren't any incompatible material residuals in the containers. Contaminated clothing should be changed before entering eating areas. Do not eat or drink while working. See also section 8 for recommended protective equipment.

#### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

Storage temperature: N.A.

Incompatible materials: None in particular.

Instructions as regards storage premises: Adequately ventilated premises.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control Parameters

List of Components with OEL Value:

Component	OEL Type	Country	Ceiling	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term PPM	Behavior	Note
Ethylene diamine	OSHA ACGIH			25	10 10				A4 - Not classifiable as a Human Carcinogen; Skin - potential significant contribution to overall exposure by the cutaneous route
Diethylene triamine	ACGIH				1				Skin - potential significant contribution to overall exposure by the cutaneous route; eye and upper respiratory tract irritation

Appropriate Engineering Controls: N.A.

#### 8.2. Individual Protection Measures

Personal Protective Equipment: Protective goggles. Gloves. Protective clothing. Face shield. Insufficient ventilation: wear respiratory protection.



Eye protection: Use close fitting safety goggles, don't use eye lens.

Protection for skin: Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands: Use protective gloves that provide comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection: Use adequate protective respiratory equipment.

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### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1. Information on Basic Physical and Chemical Properties

Physical State:	Liquid
Appearance and color:	Paste beige.
Odor:	Characteristic.
Odor Threshold:	N.A.
pH:	N.A.
Evaporation Rate:	N.A.
Melting Point:	N.A.
Freezing Point:	N.A.
Initial Boiling Point/Boiling Range:	N.A.
Flash Point:	> 212 °F (100 °C)
Auto-ignition Temperature:	N.A.
Decomposition Temperature:	N.A.
Lower Flammable Limit:	N.A.
Upper Flammable Limit:	N.A.
Explosive Limits:	N.A.
Vapor Pressure:	N.A.
Vapor Density:	N.A.
Relative Density:	N.A.
Solubility in Water:	N.A.
Solubility in Oil:	N.A.
Partition Coefficient (N-Octanol/Water):	N.A.
Auto-ignition Temperature:	N.A.
Decomposition Temperature:	N.A.
Viscosity:	N.A.
Explosive Limits:	N.A.
Oxidizing Properties:	N.A.
Solid/Gas Flammability:	N.A.

#### 9.2. Other Information

Substance Groups Relevant Properties:	N.A.
Miscibility:	N.A.
Fat Solubility:	N.A.
Conductivity:	N.A.

### SECTION 10: STABILITY AND REACTIVITY

- 10.1. Reactivity:** Stable under normal conditions.
- 10.2. Chemical Stability:** Data not available.
- 10.3. Possibility of Hazardous Reactions:** None.
- 10.4. Conditions to Avoid:** Stable under normal conditions.
- 10.5. Incompatible Materials:** None in particular.
- 10.6. Hazardous Decomposition Products:** None.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1. Information on Toxicological Effects - Product

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

#### 11.2. Information on Toxicological Effects - Ingredient(s)

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4-Nonylphenol, branched	a) acute toxicity	LD50 Oral Rat 1300mg/kg LD50 Skin Rabbit > 2000mg/kg
Aminoethylpiperazine	a) acute toxicity	LD50 Skin Rabbit = 880µL/kg LD50 Oral Rat = 2140mg/kg
2,4,6-Tri(dimethylaminomethyl) phenol	a) acute toxicity	LD50 Skin Rat = 1280mg/kg LD50 Oral Rat = 1000mg/kg
Triethylene tetramine	a) acute toxicity	LD50 Skin Rabbit = 550mg/kg LD50 Oral Rat = 2500mg/kg
Diethylene triamine	a) acute toxicity	LD50 Skin Rabbit = 672mg/kg LD50 Oral Rat = 819mg/kg
Ethylene diamine	a) acute toxicity	LD50 Skin Rabbit = 550mg/kg LD50 Oral Rat = 637mg/kg

### 11.3. If not differently specified, the information required in the regulation and listed below must be considered as N.A.

- a) acute toxicity
- b) skin corrosion/irritation
- c) serious eye damage/irritation
- d) respiratory or skin sensitization
- e) germ cell mutagenicity
- f) carcinogenicity
- g) reproductive toxicity
- h) STOT-single exposure
- i) STOT-repeated exposure
- j) aspiration hazard

Substance(s) listed on the IARC Monographs: None

Substance(s) listed as OSHA Carcinogen(s): None

Substance(s) listed as NIOSH Carcinogen(s): None

Substance(s) listed on the NTP report on Carcinogens: None

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment. Eco-Toxicological Information:

#### List of components with eco-toxicological properties

Quantity	Component	Identification number	Ecotox Infos
60-70 %	4-Nonylphenol, branched	CAS: 84852-15-3 - EINECS: 284-325-5 - 67-548-EC: 601-053-00-8	LC50 Fish Pimephales promelas0,135mg/L 96h „Holcombe, G.W., Phipps, G.L., Knuth, M.L. and Felhaber, T. (1984) Environ. Pollut. (Series A) 35, 367-38 LC100 Fish Leuciscus idus1,1mg/L 48h „Huels study, 1988 (unpublished) LC50 Fish Leuciscus idus0,95mg/L 48h „Huels study, 1988 (unpublished) LOEC Fish Pimephales promelas14µg/L 33d „Chemical Manufacturers Association (1991) Two environmental effects 4-Nonylphenol final reports 1. Chronic toxicity of Nonylphenol to the Mysid, Mysidopsis bahia: EnviroSystems Study Number 8977-CMA 2. Early life stage toxicity of Nonylphenol to the fat NOEC Fish Pimephales promelas7,4µg/L 33d „Chemical Manufacturers Association (1991) Two environmental effects 4-Nonylphenol final reports 1. Chronic toxicity of Nonylphenol to the Mysid, Mysidopsis bahia: EnviroSystems Study Number 8977-CMA 2. Early life stage

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			<p>toxicity of Nonylphenol to the fat            EC100 Daphnia Daphnia magna &gt; 400µg/L 48h „Huels report No. DK-522, 1992 (unpublished)            EC0 Daphnia Daphnia magna &lt; 100µg/L 48h „Huels report No. DK-522, 1992 (unpublished)            EC50 Daphnia Daphnia magna 140µg/L 48h „Huels report No. DK-522, 1992 (unpublished)            LOEC Daphnia Daphnia magna &gt; 100µg/L 21d „Huels report No. DL-143, 1992 (unpublished)            NOEC Daphnia Daphnia magna 0,024mg/L 21d ICI PLC (1991) Nonyl Phenol: Chronic Toxicity to Daphnia Magna Report No: BLS1319/B (Interim) BL4176/B (Final)            EC90 Algae Scenedesmus subspicatus (Desmodesmus subspicatus) 3,2mg/L 72h Huels study (unpublished)            EC10 Algae Scenedesmus subspicatus (Desmodesmus subspicatus) 0,5mg/L 72h Huels study (unpublished)            EC50 Algae Scenedesmus subspicatus (Desmodesmus subspicatus) 1,3mg/L 72h Huels study (unpublished)            LC50 a) Aquatic acute toxicity Fish Pimephales promelas = 135mg/L 96h IUCLID            LC50 a) Aquatic acute toxicity Fish Lepomis macrochirus = 1351mg/L 96h EPA            EC50 a) Aquatic acute toxicity Daphnia Daphnia magna = 14mg/L 48h IUCLID            EC50 a) Aquatic acute toxicity Algae Pseudokirchneriella subcapitata 36mg/L 96h EPA            EC50 a) Aquatic acute toxicity Algae Pseudokirchneriella subcapitata 16mg/L 72h EPA            EC50 a) Aquatic acute toxicity Algae Desmodesmus subspicatus = 13mg/L 72h IUCLID</p>
10-20 %	Aminoethylpiperazine	CAS: 140-31-8	<p>LC50 a) Aquatic acute toxicity Fish Pimephales promelas 1950mg/L 96h EPA            LC50 a) Aquatic acute toxicity Fish Poecilia reticulata &gt; 1000mg/L 96h IUCLID            LC50 a) Aquatic acute toxicity Fish Oncorhynchus mykiss &gt; = 100mg/L 96h IUCLID            EC50 a) Aquatic acute toxicity Daphnia Daphnia magna = 32mg/L 48h IUCLID            EC50 a) Aquatic acute toxicity Algae Pseudokirchneriella subcapitata = 495mg/L 72h IUCLID</p>
1-5 %	Triethylene tetramine	CAS: 112-24-3	<p>LC50 a) Aquatic acute toxicity Fish Poecilia reticulata = 570mg/L 96h IUCLID            LC50 a) Aquatic acute toxicity Fish Pimephales promelas = 495mg/L 96h IUCLID            EC50 a) Aquatic acute toxicity Daphnia Daphnia magna = 311mg/L 48h IUCLID            EC50 a) Aquatic acute toxicity Algae Desmodesmus subspicatus = 2,50000mg/L 72h IUCLID            EC50 a) Aquatic acute toxicity Algae Pseudokirchneriella</p>

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			subcapitata = 20mg/L 72h IUCLID EC50 a) Aquatic acute toxicity Algae Pseudokirchneriella subcapitata = 3,70000mg/L 96h EPA
0.1-1 %	Ethylene diamine	CAS: 107-15-3	LC50 a) Aquatic acute toxicity Fish Pimephales promelas 986mg/L 96h EPA LC50 a) Aquatic acute toxicity Fish Poecilia reticulata 180mg/L 96h EPA EC50 a) Aquatic acute toxicity Daphnia Daphnia magna = 17mg/L 48h IUCLID EC50 a) Aquatic acute toxicity Algae Pseudokirchneriella subcapitata = 645mg/L 72h IUCLID EC50 a) Aquatic acute toxicity Algae Pseudokirchneriella subcapitata = 151mg/L 96h IUCLID
0.1-1 %	Diethylene triamine	CAS: 111-40-0	LC50 a) Aquatic acute toxicity Fish Poecilia reticulata = 248mg/L 96h IUCLID EC50 a) Aquatic acute toxicity Daphnia Daphnia magna = 16mg/L 48h IUCLID EC50 a) Aquatic acute toxicity Algae Pseudokirchneriella subcapitata = 1164mg/L 72h IUCLID EC50 a) Aquatic acute toxicity Algae Pseudokirchneriella subcapitata = 345,60000mg/L 96h EPA EC50 a) Aquatic acute toxicity Algae Desmodesmus subspicatus = 592mg/L 96h IUCLID LC50 a) Aquatic acute toxicity Fish Leuciscus idus = 430,00000mg/L 96h EC50 a) Aquatic acute toxicity Daphnia Daphnia magna = 37,00000mg/L 24h EC50 a) Aquatic acute toxicity Daphnia Daphnia magna = 16,00000mg/L 48h

**12.2. Persistence and Degradability** N.A.

**12.3. Bioaccumulative Potential** N.A.

**12.4. Mobility in Soil** N.A.

**12.5. Other Adverse Effects** N.A.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

Waste must be handled in accordance with all federal, state, provincial, and local regulations. Consult authorities before disposal.

## SECTION 14: TRANSPORT INFORMATION

### 14.1. UN number

ADR-UN number: 1760  
DOT-UN Number: UN1760  
IATA-Un number: 1760  
IMDG-Un number: 1760

### 14.2. UN proper shipping name

ADR-Shipping Name: CORROSIVE LIQUID, N.O.S.  
DOT-Proper Shipping Name: CORROSIVE LIQUIDS, N.O.S.  
IATA-Technical name: CORROSIVE LIQUID, N.O.S.  
IMDG-Technical name: CORROSIVE LIQUID, N.O.S.

### 14.3. Transport hazard class(es)

ADR-Class: 8



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DOT-Hazard Class: 8

IATA-Class: 8

IMDG-Class: 8

### 14.4. Packing group

ADR-Packing Group: III

DOT-Packing group: III

IATA-Packing group: III

IMDG-Packing group: III

### 14.5. Environmental hazards

Marine pollutant: Yes

Environmental Pollutant: N.A.

**14.6. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** N.A.

### 14.7. Special precautions

Department of Transportation (DOT):

DOT-Special Provision(s): IB3, T7, TP1, TP28

DOT-Label(s): 8

DOT-Symbol: N/A

DOT-Cargo Aircraft: N/A

DOT-Passenger Aircraft: N/A

DOT-Bulk: N/A

DOT-Non-Bulk: N/A

Road and Rail (ADR-RID):

ADR-Label: 8

ADR-Hazard identification number: 80

ADR-Tunnel Restriction Code: 3 (E)

Air (IATA):

IATA-Passenger Aircraft: 852

IATA-Cargo Aircraft: 856

IATA-Label: 8

IATA-Sub risk: -

IATA-Erg: 8L

IATA-Special Provisions: A3 A803

Sea (IMDG):

IMDG-Stowage Code: Category A

IMDG-Stowage Note: Clear of living quarters.

IMDG-Sub risk: -

IMDG-Special Provisions: 223 274

IMDG-Page: N/A

IMDG-Label: N/A

IMDG-EMS: F-A, S-B

IMDG-MFAG: N/A

## SECTION 15: REGULATORY INFORMATION

### 15.1. US Federal Regulations

#### 15.1.1. TSCA - Toxic Substances Control Act

TSCA inventory: All the components are listed on the TSCA inventory

#### TSCA listed substances:

4-Nonylphenol, branched	is listed in TSCA	Section 8b, Section 8a - PAIR
Aminoethylpiperazine	is listed in TSCA	Section 8b
Fatty acids, C18-unsaturated, dimers, reaction products with Polyethylenepolyamines	is listed in TSCA	Section 8b
2,4,6-Tri(dimethylaminomethyl)phenol	is listed in TSCA	Section 8b
Triethylene tetramine	is listed in TSCA	Section 8b
Ethylene diamine	is listed in TSCA	Section 8b
Diethylene triamine	is listed in TSCA	Section 8b

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### 15.1.2. SARA - Superfund Amendments and Reauthorization Act

Section 302 - Extremely Hazardous Substances: Ethylene diamine

Section 304 - Hazardous substances: Ethylene diamine

Section 313 - Toxic chemical list: no substances listed

### 15.1.3. CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

Substance(s) listed under CERCLA:

Ethylene diamine

Reportable quantity: 5000 pounds

Reportable quantity for mixture: 2493765.586 pounds

### 15.1.4. CAA - Clean Air Act

CAA listed substances: Ethylene diamine is listed in CAA Section 112(b) - HON

### 15.1.5. CWA - Clean Water Act

CWA listed substances: Ethylene diamine is listed in CWA Section 311

## 15.2. US State Regulations

### 15.2.1. California Proposition 65

Substance(s) listed under California Proposition 65: Diethylene triamine; Listed as carcinogen

### 15.2.2. Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know: Aminoethylpiperazine, Triethylene tetramine, Ethylene diamine, Diethylene triamine

### 15.2.3. Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know: Aminoethylpiperazine, Triethylene tetramine, Ethylene diamine, Diethylene triamine

### 15.2.4. New Jersey Right to know

Substance(s) listed under New Jersey Right to know: Aminoethylpiperazine, Triethylene tetramine, Ethylene diamine, Diethylene triamine

## SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Revision Date:** 05/13/2015

**Product Code:** 2112

**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:

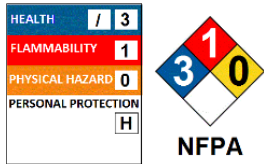
H226	Flammable liquid and vapor.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H361	Suspected of damaging fertility or the unborn child <state specific effect if known> <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
H361.A	Suspected of damaging fertility or the unborn child if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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### Additional classification information:



HMIS Health: 3 = Serious

HMIS Health - Is health hazard chronic?: No

HMIS Flammability: 1 = Combustible if heated

HMIS Reactivity: 0 = Minimal

HMIS P.P.E.: Splash goggles, gloves, chemical apron, vapor respirator

NFPA Health: 3 = Serious

NFPA Flammability: 1 = Combustible if heated

NFPA Reactivity: 0 = Minimal

NFPA Special Risk: NONE

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State/provincial, and local laws.

This document was prepared by a competent person who has received appropriate training.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

### Legend to abbreviations and acronyms used in the safety data sheet:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

CLP: Classification, Labeling, Packaging.

EINECS: European Inventory of Existing Commercial Chemical Substances.

INCI: International Nomenclature of Cosmetic Ingredients.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

GefStoffVO: Ordinance on Hazardous Substances, Germany.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

DNEL: Derived No Effect Level.

PNEC: Predicted No Effect Concentration.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

WGK: German Water Hazard Class.

KSt: Explosion coefficient.

### Party Responsible for the Preparation of This Document

nora systems, Inc.

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*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.*