nora® 585 B
Safety Data Sheet
According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations
Revision Date: 04/21/2015 Date of issue: 04/10/2015 Version: 1.0

SECTION 1: IDENTIFICATION
1.1. Product Identifier
Product Form: Mixture
Product Name: nora® 585 B

1.2. Intended Use of the Product
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

SECTION 2: HAZARDS IDENTIFICATION
2.1. Classification of the Substance or Mixture
Classification (GHS-US)
Skin Corr. 1B H314
Eye Dam. 1 H318
Skin Sens. 1 H317
Muta. 1B H340
Aquatic Chronic 2 H411
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):
H314 - Causes severe skin burns and eye damage.
H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage.
H340 - May cause genetic defects.
H411 - Toxic to aquatic life with long lasting effects.

Precautionary Statements (GHS-US):
P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P260 - Do not breathe vapors, mist, or spray.
P261 - Avoid breathing vapors, mist, or spray.
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.
P272 - Contaminated work clothing must not be allowed out of the workplace.
P273 - Avoid release to the environment.
P280 - Wear protective gloves, protective clothing, and eye protection.
P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting.
2.3. Other Hazards
May be corrosive to respiratory tract.

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

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product Identifier</th>
<th>% (w/w)</th>
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<tbody>
<tr>
<td>Fatty acids, C18-unsaturated, dimers, polymers with tall-oil fatty acids and triethylenetetramine</td>
<td>(CAS No) 68082-29-1</td>
<td>40 - 70</td>
</tr>
<tr>
<td>Propanol, oxybis-, dibenzoate</td>
<td>(CAS No) 27138-31-4</td>
<td>7 - 13</td>
</tr>
<tr>
<td>2,4,6-Tri(dimethylaminomethyl)phenol</td>
<td>(CAS No) 90-72-2</td>
<td>5 - 10</td>
</tr>
<tr>
<td>Carbon black*</td>
<td>(CAS No) 1333-86-4</td>
<td>3 - 7</td>
</tr>
</tbody>
</table>

Full text of H-phrases: see section 16

*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.

SECTION 4: FIRST AID MEASURES

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 and shoes. Immediately flush skin with plenty of water for at least 60 minutes. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse.
Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 60 minutes. Immediately call a POISON CENTER or doctor/physician.
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 severe skin burns and eye damage. May cause an allergic skin reaction. May cause cancer. May cause heritable genetic damage.
Inhalation: May be corrosive to the respiratory tract.
Skin Contact: Causes severe skin burns. Symptoms may include: Redness, pain, swelling, itching, burning, dryness, and dermatitis. May cause an allergic skin reaction.

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

Ingestion: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

Chronic Symptoms: May cause cancer. May cause heritable genetic damage.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed
If you feel unwell, seek medical advice (show the label where possible).

SECTION 5: FIRE-FIGHTING MEASURES

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.

5.2. Special Hazards Arising From the Substance or Mixture
Fire Hazard: Not considered flammable but may burn at high temperatures.

Explosion Hazard: Product is not explosive.

Reactivity: Thermal decomposition generates corrosive vapours.

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). Nitrogen oxides.

Reference to Other Sections
Refer to section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

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).


6.1.2. For Emergency Personnel
Protective Equipment: Equip clean-up 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 heading 8, Exposure Controls and Personal Protection. Concerning disposal elimination after cleaning, see item 13.
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SECTION 7: HANDLING AND STORAGE
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.

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

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION
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.

<table>
<thead>
<tr>
<th>Carbon black (1333-86-4)</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>USA ACGIH</td>
<td>ACGIH TWA (mg/m³)</td>
<td>3 mg/m³ (inhalable fraction)</td>
</tr>
<tr>
<td>USA ACGIH</td>
<td>ACGIH chemical category</td>
<td>Confirmed Animal Carcinogen with Unknown Relevance to Humans</td>
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<tr>
<td>USA OSHA</td>
<td>OSHA PEL (TWA) (mg/m³)</td>
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<tr>
<td>USA NIOSH</td>
<td>NIOSH REL (TWA) (mg/m³)</td>
<td>3.5 mg/m³ 0.1 mg/m³ (Carbon black in presence of Polycyclic aromatic hydrocarbons)</td>
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<td>USA IDLH</td>
<td>US IDLH (mg/m³)</td>
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<td>OEL TWA (mg/m³)</td>
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<tr>
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<td>Nova Scotia</td>
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<tr>
<td>Nunavut</td>
<td>OEL STEL (mg/m³)</td>
<td>7 mg/m³</td>
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<tr>
<td>Nunavut</td>
<td>OEL TWA (mg/m³)</td>
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<td>Northwest Territories</td>
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</tr>
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<td>Ontario</td>
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<tr>
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<tr>
<td>Saskatchewan</td>
<td>OEL TWA (mg/m³)</td>
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<td>Yukon</td>
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<td>7 mg/m³</td>
</tr>
<tr>
<td>Yukon</td>
<td>OEL TWA (mg/m³)</td>
<td>3.5 mg/m³</td>
</tr>
</tbody>
</table>
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.

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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties
Physical State: Liquid
Appearance: Black paste
Odor: Amine odor
Odor Threshold: Not available
pH: Not available
Evaporation Rate: Not available
Melting Point: Not available
Freezing Point: ~32°F
Boiling Point: 199 °C (390.20 °F)
Flash Point: > 93 °C (> 199.40 °F)
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: 1.07
Solubility: Not available
Partition Coefficient: N-Octanol/Water: Not available
Viscosity: 180,000 – 280,000 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.
SECTION 10: STABILITY AND REACTIVITY


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.


SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects - Product
Acute Toxicity: Not classified

<table>
<thead>
<tr>
<th>LD50 and LC50 Data:</th>
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</thead>
<tbody>
<tr>
<td>ATE US (oral)</td>
</tr>
<tr>
<td>ATE US (dust, mist)</td>
</tr>
</tbody>
</table>

Skin Corrosion/Irritation: Causes severe skin burns and eye damage.
Serious Eye Damage/Irritation: Causes serious eye damage.
Respiratory or Skin Sensitization: May cause an allergic skin reaction.
Germ Cell Mutagenicity: May cause genetic defects.
Teratogenicity: Not classified
Carcinogenicity: Not classified
Specific Target Organ Toxicity (Repeated Exposure): Not classified
Reproductive Toxicity: Not classified
Specific Target Organ Toxicity (Single Exposure): Not classified
Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: May be corrosive to the respiratory tract.
Symptoms/Injuries After Skin Contact: Causes severe skin burns. 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 damage. Symptoms may include: Redness, pain, swelling, itching, burning, tearing, and blurred vision.
Symptoms/Injuries After Ingestion: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.
Chronic Symptoms: May cause cancer. May cause heritable genetic damage.

11.2. Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

<table>
<thead>
<tr>
<th>Fatty acids, C18-unsaturated, dimers, polymers with tall-oil fatty acids and triethylenetetramine (68082-29-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 Oral Rat</td>
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<tr>
<td>LD50 Dermal Rat</td>
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<table>
<thead>
<tr>
<th>2,4,6-Tri(dimethylaminomethyl)phenol (90-72-2)</th>
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<tr>
<td>LD50 Oral Rat</td>
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<tr>
<td>LD50 Dermal Rat</td>
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<th>Carbon black (1333-86-4)</th>
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<tbody>
<tr>
<td>LD50 Oral Rat</td>
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<thead>
<tr>
<th>Carbon black (1333-86-4)</th>
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<tbody>
<tr>
<td>OSHA Hazard Communication Carcinogen List</td>
</tr>
</tbody>
</table>

IARC Group: 2B
SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity
Ecology - General: Toxic to aquatic life with long lasting effects.

| Carbon black (1333-86-4) | 5600 mg/l (Exposure time: 24 h - Species: Daphnia magna) |

12.2. Persistence and Degradability  Not available

12.3. Bioaccumulative Potential

12.4. Mobility in Soil  Not available

12.5. Other Adverse Effects  Avoid release to the environment

SECTION 13: DISPOSAL CONSIDERATIONS
Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

SECTION 14: TRANSPORT INFORMATION

14.1. In Accordance with DOT
Proper Shipping Name: CORROSIVE LIQUIDS, N.O.S.(Triethylenetetramine and 2,4,6-Tri(dimethylaminomethyl)phenol)
Hazard Class: 8
Identification Number: UN1760
Label Codes: 8
Packing Group: II
Marine Pollutant: Marine pollutant
ERG Number: 154

14.2. In Accordance with IMDG
Proper Shipping Name: CORROSIVE LIQUID, N.O.S.(Triethylenetetramine and 2,4,6-Tri(dimethylaminomethyl)phenol)
Hazard Class: 8
Identification Number: UN1760
Packing Group: II
Label Codes: 8
EmS-No. (Fire): F-A
EmS-No. (Spillage): S-B
Marine pollutant: Marine pollutant

14.3. In Accordance with IATA
Proper Shipping Name: CORROSIVE LIQUID, N.O.S. (Triethylenetetramine and 2,4,6-Tri(dimethylaminomethyl)phenol)
Packing Group: II
Identification Number: UN1760
Hazard Class: 8
Label Codes: 8
ERG Code (IATA): 8L

14.4. In Accordance with TDG
Proper Shipping Name: CORROSIVE LIQUID, N.O.S.(Triethylenetetramine and 2,4,6-Tri(dimethylaminomethyl)phenol)
Packing Group: II
Hazard Class: 8
Identification Number: UN1760
## SECTION 15: REGULATORY INFORMATION

### 15.1. US Federal Regulations

<table>
<thead>
<tr>
<th>SARA Section 311/312 Hazard Classes</th>
<th>Immediate (acute) health hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Delayed (chronic) health hazard</td>
</tr>
</tbody>
</table>

- **Fatty acids, C18-unsaturated, dimers, polymers with tall-oil fatty acids and triethylenetetramine (68082-29-1)**
- **Propanol, oxybis-, dibenzoate (27138-31-4)**
- **2,4,6-Tri(dimethylaminomethyl)phenol (90-72-2)**
- **Carbon black (1333-86-4)**

### 15.2. US State Regulations

- **Carbon black (1333-86-4)**
  - **U.S. - California - Proposition 65 - Carcinogens List**
  - **WARNING: This product contains chemicals known to the State of California to cause cancer.**

- **Carbon black (1333-86-4)**
  - **U.S. - Massachusetts - Right To Know List**
  - **U.S. - New Jersey - Right to Know Hazardous Substance List**
  - **U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances**
  - **U.S. - Pennsylvania - RTK (Right to Know) List**

### 15.3. Canadian Regulations

- **WHMIS Classification**
  - **Class E - Corrosive Material**
  - **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**

- **Fatty acids, C18-unsaturated, dimers, polymers with tall-oil fatty acids and triethylenetetramine (68082-29-1)**
  - **Listed on the Canadian DSL (Domestic Substances List)**
  - **WHMIS Classification**
  - **Class D Division 2 Subdivision B - Toxic material causing other toxic effects**
  - **Class E - Corrosive Material**

- **Propanol, oxybis-, dibenzoate (27138-31-4)**
  - **Listed on the Canadian DSL (Domestic Substances List)**
  - **WHMIS Classification**
  - **Uncontrolled product according to WHMIS classification criteria**

- **2,4,6-Tri(dimethylaminomethyl)phenol (90-72-2)**
  - **Listed on the Canadian DSL (Domestic Substances List)**
  - **WHMIS Classification**
  - **Class D Division 2 Subdivision B - Toxic material causing other toxic effects**
  - **Class E - Corrosive Material**
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<tr>
<th>Carbon black (1333-86-4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Listed on the Canadian DSL (Domestic Substances List)</td>
</tr>
<tr>
<td>Listed on the Canadian IDL (Ingredient Disclosure List)</td>
</tr>
<tr>
<td>IDL Concentration 1%</td>
</tr>
<tr>
<td>WHMIS Classification</td>
</tr>
</tbody>
</table>

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.

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION
Revision Date: 04/21/2015
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:

<table>
<thead>
<tr>
<th>Acute Tox. 3 (Dermal)</th>
<th>Acute toxicity (dermal) Category 3</th>
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</thead>
<tbody>
<tr>
<td>Acute Tox. 4 (Dermal)</td>
<td>Acute toxicity (dermal) Category 4</td>
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<tr>
<td>Acute Tox. 4 (Oral)</td>
<td>Acute toxicity (oral) Category 4</td>
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<tr>
<td>Aquatic Acute 1</td>
<td>Hazardous to the aquatic environment - Acute Hazard Category 1</td>
</tr>
<tr>
<td>Aquatic Acute 3</td>
<td>Hazardous to the aquatic environment - Acute Hazard Category 3</td>
</tr>
<tr>
<td>Aquatic Chronic 1</td>
<td>Hazardous to the aquatic environment - Chronic Hazard Category 1</td>
</tr>
<tr>
<td>Aquatic Chronic 2</td>
<td>Hazardous to the aquatic environment - Chronic Hazard Category 2</td>
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<td>Hazardous to the aquatic environment - Chronic Hazard Category 3</td>
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<tr>
<td>Asp. Tox. 1</td>
<td>Aspiration hazard Category 1</td>
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<tr>
<td>Comb. Dust</td>
<td>Combustible Dust</td>
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<tr>
<td>Eye Dam. 1</td>
<td>Serious eye damage/eye irritation Category 1</td>
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<tr>
<td>Flam. Liq. 3</td>
<td>Flammable liquids Category 3</td>
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<td>Muta. 1B</td>
<td>Germ cell mutagenicity Category 1B</td>
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<td>Skin Corr. 1B</td>
<td>Skin corrosion/irritation Category 1B</td>
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<td>Skin Irrit. 2</td>
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<tr>
<td>Skin Sens. 1</td>
<td>Skin sensitization Category 1</td>
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<td>STOT RE 1</td>
<td>Specific target organ toxicity (repeated exposure) Category 1</td>
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<td>STOT SE 3</td>
<td>Specific target organ toxicity (single exposure) Category 3</td>
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<tr>
<td>H226</td>
<td>Flammable liquid and vapor</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H304</td>
<td>May be fatal if swallowed and enters airways</td>
</tr>
<tr>
<td>H311</td>
<td>Toxic in contact with skin</td>
</tr>
<tr>
<td>H312</td>
<td>Harmful in contact with skin</td>
</tr>
<tr>
<td>H314</td>
<td>Causes severe skin burns and eye damage</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>H317</td>
<td>May cause an allergic skin reaction</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation</td>
</tr>
<tr>
<td>H340</td>
<td>May cause genetic defects</td>
</tr>
<tr>
<td>H351</td>
<td>Suspected of causing cancer</td>
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<tr>
<td>H372</td>
<td>Causes damage to organs through prolonged or repeated exposure</td>
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<tr>
<td>H400</td>
<td>Very toxic to aquatic life</td>
</tr>
<tr>
<td>H402</td>
<td>Harmful to aquatic life</td>
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04/21/2015 EN (English US) 9/10
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<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>H410</td>
<td>Very toxic to aquatic life with long lasting effects</td>
</tr>
<tr>
<td>H411</td>
<td>Toxic to aquatic life with long lasting effects</td>
</tr>
<tr>
<td>H412</td>
<td>Harmful to aquatic life with long lasting effects</td>
</tr>
</tbody>
</table>

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.

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