MATERIAL SAFETY DATA SHEET

MATERIAL SAFETY DATA SHEET

National Coatings Corporation
Product Safety & Regulatory Affairs
1201 Calle Suerte
Camarillo, CA 93012
USA

1. Product and Company Identification

Product Name: NC 245 - 30
Material Number: 6664393
Chemical Family: Polyol System

2. Hazards Identification

Emergency Overview

May cause eye, skin, and respiratory tract irritation. Use cold water spray to cool fire-
exposed containers to minimize the risk of rupture. Vapor reduces oxygen available for
breathing. May cause allergic respiratory reaction. May cause allergic skin reaction.
May cause a temporary fogging of the eyes. May affect nervous system. May cause
irregular heartbeat. May cause liver damage. May cause kidney damage.

Potential Health Effects

Primary Routes of Entry: Skin Contact, Eye Contact, Inhalation
Medical Conditions Aggravated by Exposure: Eye disorders, Respiratory disorders, Skin disorders

HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE

Inhalation
Acute Inhalation
For Component: Aromatic Amino Polyol
May cause respiratory tract irritation with symptoms of coughing, sore throat and runny nose.

For Component: Polymer
Inhalation is unlikely due to the low vapor pressure. If misted or handled at elevated temperatures, high
concentrations may cause respiratory tract irritation.

For Component: Hydrofluorocarbon
May cause respiratory tract irritation with symptoms of coughing, sore throat and runny nose. May induce
cardiac arrhythmia (irregular heartbeat) in some individuals. Vapor can reduce oxygen available for breathing.

**For Component: Chlorinated Phosphate Ester**
May cause respiratory tract irritation with symptoms of coughing, sore throat and runny nose.

**For Component: Glycol**
Inhalation is unlikely due to the low vapor pressure. If misted or handled at elevated temperatures, high concentrations may cause respiratory tract irritation.

**For Component: Dimethylethanolamine**
Causes respiratory tract irritation with symptoms of coughing, sore throat and runny nose. May cause allergic respiratory reaction with symptoms of coughing, wheezing, shortness of breath, bronchospasm, and reduced lung function.

**Chronic Inhalation**
*For Component: Dimethylethanolamine*
May cause pulmonary edema with symptoms of breathing difficulty and tightness of chest.

**Skin**

**Acute Skin**
*For Component: Aromatic Amino Polyol*
May cause irritation with symptoms of reddening and itching.

*For Component: Polymer*
Causes irritation with symptoms of reddening, itching, and swelling.

*For Component: Hydrofluorocarbon*
Slightly toxic by skin absorption. May cause slight irritation.

*For Component: Chlorinated Phosphate Ester*
May cause slight irritation.

*For Component: Glycol*
Not expected to be irritating.

*For Component: Dimethylethanolamine*
May cause allergic skin reaction with symptoms of reddening, itching, swelling, and rash. Corrosive with symptoms of reddening, itching, swelling, burning and possible permanent damage. Moderately toxic by skin absorption.

**Eye**

**Acute Eye**
*For Component: Aromatic Amino Polyol*
Causes irritation with symptoms of reddening, tearing, stinging, and swelling.

*For Component: Polymer*
Causes irritation with symptoms of reddening, tearing, stinging, and swelling. May cause corneal injury.

*For Component: Hydrofluorocarbon*
May cause slight irritation.

*For Component: Chlorinated Phosphate Ester*
Not expected to be irritating.

*For Component: Glycol*
May cause slight irritation.
For Component: **Dimethylethanolamine**
Corrosive with symptoms of reddening, tearing, swelling, burning and possible permanent damage. Vapors can cause temporary corneal edema with symptoms of blurred vision or the appearance of halos around bright objects.

**Ingestion**

**Acute Ingestion**

For Component: **Polymer**
Symptoms of ingestion may include abdominal pain, nausea, vomiting, and diarrhea. May be harmful if swallowed.

For Component: **Chlorinated Phosphate Ester**
May be harmful if swallowed. Symptoms of ingestion may include abdominal pain, nausea, vomiting, and diarrhea. Moderately toxic by ingestion.

For Component: **Glycol**
May cause nervous system effects which can include symptoms of dizziness, incoordination, headache, numbness, and/or confusion. The oral toxicity is greater in humans than in laboratory animals.

For Component: **Dimethylethanolamine**
May be harmful if swallowed. May cause digestive tract burns.

**Chronic Ingestion**

For Component: **Chlorinated Phosphate Ester**
May cause liver damage. May cause kidney damage.

For Component: **Glycol**
May cause kidney damage. Repeated excessive exposures may cause liver or kidney effects. Chronic overexposure to this product may cause effects as noted under acute overexposure. If ingested the individual should be observed for signs of numbness, incoordination, headache, and confusion.

**General Effects of Exposure**

**Acute Effects of Exposure**

For Component: **Polymer**
Gases and fumes evolved during the thermal processing or decomposition of this material may irritate the eyes, skin or respiratory tract.

**Carcinogenicity:**
No Carcinogenic substances as defined by IARC, NTP and/or OSHA

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3. **Composition/Information on Ingredients**

<table>
<thead>
<tr>
<th>Hazardous Components</th>
<th>Components</th>
<th>CAS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight %</td>
<td></td>
<td></td>
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<tr>
<td>15 - 25%</td>
<td>Aromatic Amino Polyol</td>
<td>CAS# is a trade secret</td>
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<tr>
<td>15 - 25%</td>
<td>Polymer</td>
<td>CAS# is a trade secret</td>
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<tr>
<td>7 - 13%</td>
<td>Hydrofluorocarbon</td>
<td>460-73-1</td>
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<tr>
<td>5 - 10%</td>
<td>Chlorinated Phosphate Ester</td>
<td>CAS# is a trade secret</td>
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<td>3 - 7%</td>
<td>Brominated Flame Retardant</td>
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<tr>
<td>1 - 5%</td>
<td>Glycol</td>
<td>CAS# is a trade secret</td>
</tr>
<tr>
<td>1 - 5%</td>
<td>Dimethylethanolamine</td>
<td>108-01-0</td>
</tr>
</tbody>
</table>

Material Name: NC 245 - 30  
Article Number: 6664393  
Page: 3 of 13  
Report Version: 1.9
4. First Aid Measures

Eye Contact
In case of contact, flush eyes with plenty of lukewarm water. Get medical attention if irritation develops.

Skin Contact
In case of skin contact, wash affected areas with soap and water. Immediately remove contaminated clothing and shoes. Get medical attention if irritation develops.

Inhalation
If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration using a pocket mask type resuscitator. Get medical attention.

Ingestion
If ingested, do not induce vomiting unless directed to do so by medical personnel. Get medical attention.

5. Fire-Fighting Measures

Suitable Extinguishing Media: carbon dioxide (CO2), dry chemical, foam, water spray for large fires.

Special Fire Fighting Procedures
Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes. Use cold water spray to cool fire-exposed containers to minimize the risk of rupture.

6. Accidental release measures

Spill and Leak Procedures
Cover spill with inert material (e.g., dry sand or earth) and collect for proper disposal. Use appropriate personal protective equipment during clean up. Evacuate and keep unnecessary people out of spill area.

7. Handling and Storage

Storage Temperature:
minimum: 7 °C (44.6 °F)
maximum: 29 °C (84.2 °F)

Storage Period
6 Months

Handling/Storage Precautions
Handle in accordance with good industrial hygiene and safety practices. Wash thoroughly after handling. Keep container closed when not in use. Material is hygroscopic and may absorb small amounts of atmospheric moisture. If contamination with isocyanates is suspected, do not reseal containers. Avoid contact with eyes. Avoid contact with skin or clothing. Do not breathe vapours/dust.
8. Exposure Controls / Personal Protection

Country specific exposure limits have not been established or are not applicable

**Industrial Hygiene/Ventilation Measures**
Use local and general exhaust ventilation to control levels of exposure.

**Respiratory Protection**
In case of insufficient ventilation wear suitable respiratory equipment.

**Hand Protection**
Permeation resistant gloves.

**Eye Protection**
Chemical safety goggles or safety glasses with side-shields.

**Skin and body protection**
Wear cloth work clothing including long pants and long-sleeved shirts.

**Additional Protective Measures**
Employees should wash their hands and face before eating, drinking, or using tobacco products. Educate and train employees in the safe use and handling of this product.

9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Form:</strong></td>
<td>liquid</td>
</tr>
<tr>
<td><strong>Color:</strong></td>
<td>Amber, Brown</td>
</tr>
<tr>
<td><strong>Odor:</strong></td>
<td>slight, Ether, Amine</td>
</tr>
<tr>
<td><strong>Vapor Pressure:</strong></td>
<td>1.227 hPa</td>
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<tr>
<td><strong>Specific Gravity:</strong></td>
<td>1.14</td>
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<tr>
<td><strong>Solubility in Water:</strong></td>
<td>Partially soluble</td>
</tr>
<tr>
<td><strong>Bulk Density:</strong></td>
<td>approximately 9.5 lb/gal</td>
</tr>
</tbody>
</table>

10. Stability and Reactivity

**Hazardous Reactions**
Hazardous polymerization does not occur.

**Stability**
Stable

**Materials to avoid**
oxidizing agents, Isocyanates

**Hazardous decomposition products**
By Fire: Carbon Dioxide; Carbon Monoxide; other aliphatic fragments which have not been determined

11. Toxicological Information

**Toxicity Data for Aromatic Amino Polyol**

**Acute Oral Toxicity**
LD50: 2,120 mg/kg (rat)

**Acute dermal toxicity**
LD50: > 2,000 mg/kg (rabbit)
Estimated Value

**Skin Irritation**
rabbit, Moderately irritating

**Eye Irritation**
rabbit, Severely irritating

**Toxicity Data for Polymer**

**Acute Oral Toxicity**
LD50: approximately 1,000 - 3,000 mg/kg (rat)

**Acute Inhalation Toxicity**
LC50: approximately > 200 mg/l, 1 hrs (rat)

**Acute dermal toxicity**
LD50: approximately > 2,000 mg/kg (rabbit)

**Skin Irritation**
Severely irritating

**Eye Irritation**
Risk of serious damage to eyes.

**Toxicity Data for Polyether Polyol**

**Acute Oral Toxicity**
LD50: > 5,000 mg/kg (Rat)

**Acute Inhalation Toxicity**
LC0: 2516 mg/m3, 6 hrs (Rat)

**Acute dermal toxicity**
LD50: > 5,000 mg/kg (rabbit)

**Eye Irritation**
rabbit, No eye irritation

**Mutagenicity**
Genetic Toxicity in Vitro:
Ames: negative
Genetic Toxicity in Vivo:
negative (Drosophila melanogaster,)

**Developmental Toxicity/Teratogenicity**
rat, female, oral, gestation, NOAEL (teratogenicity): 10,000 mg/kg,
No Teratogenic effects observed at doses tested.

**Toxicity Data for Hydrofluorocarbon**

**Acute Inhalation Toxicity**
LC50: >200,000 ppm, 4 h (Rat)

**Acute dermal toxicity**
LD50: > 2,000 mg/kg (Rat)
Skin Irritation
rabbit, Non-irritating

Eye Irritation
rabbit, Mild eye irritation

Sensitization
non-sensitizer (Dog)

Repeated Dose Toxicity
28 d, inhalation: NOAEL: 50,000 ppm, (Rat)
90 d, Inhalation: NOAEL: 2000 ppm, (Rat)

Mutagenicity
Genetic Toxicity in Vitro:
Cytogenetic assay: ambiguous (human lymphocytes, Metabolic Activation: with/without)
Ames: negative (Metabolic Activation: with/without)
Genetic Toxicity in Vivo:
Micronucleus Assay: negative (mouse)

Developmental Toxicity/Teratogenicity
No Teratogenic effects observed at doses tested.

Toxicity Data for Chlorinated Phosphate Ester
Acute Oral Toxicity
LD50: 632 mg/kg (Rat)

Acute Inhalation Toxicity
LC50: > 17,800 mg/l, aerosol, 1 hrs (rat, Male/Female)

Acute dermal toxicity
LD50: > 5,000 mg/kg (rabbit, Male/Female)

Skin Irritation
Human, Patch Test, No skin irritation
rabbit, No skin irritation

Eye Irritation
rabbit, Draize, Exposure Time: 24 hrs, Mild eye irritation
rabbit, No eye irritation

Sensitization
dermal: non-sensitizer (guinea pig, Maximisation Test (GPMT))
dermal: non-sensitizer (Human, Patch Test)

Repeated Dose Toxicity
90 Days, oral: NOAEL: 36 mg/kg, (Rat, male)

Mutagenicity
Genetic Toxicity in Vitro:
Ames: negative (Salmonella typhimurium, Metabolic Activation: with/without)
Positive and negative results were reported.
Mammalian cell - gene mutation assay: positive (Mouse lymphoma cells (L5178Y/TK), Metabolic Activation: with)
Positive and negative results were reported.
Toxicity to Reproduction/Fertility
Other method, inhalation, daily, (rat, male)
Reproductive effects have been observed in animal studies.

Developmental Toxicity/Teratogenicity
rat, female, oral, gestation, daily, NOAEL (teratogenicity): > 1%, NOAEL (maternal): > 1%
No Teratogenic effects observed at doses tested. No fetotoxicity observed at doses tested.

Toxicity Data for Glycol
Acute Oral Toxicity
LD50: > 5,000 mg/kg (Rat)
Lowest lethal dose: 1 ml/kg (Human)

Acute dermal toxicity
LD50: 11.2 l/kg (rabbit)

Skin Irritation
rabbit, Exposure Time: 4 hrs, Non-irritating
rabbit, Draize, Slightly irritating

Eye Irritation
rabbit, Draize, Slightly irritating

Repeated Dose Toxicity
90 Days, Oral: NOAEL: 200 mg/kg, (Rat, )
6 months, Inhalation: NOAEL: < 0.02 mg/l, (rat, )

Mutagenicity
Genetic Toxicity in Vitro:
Ames: Negative results were reported in various in vitro studies. (Salmonella typhimurium, Metabolic Activation: with/without)
Genetic Toxicity in Vivo:
Cytogenetic assay: positive (hamster, )
Cytogenetic assay: negative (hamster, )

Toxicity to Reproduction/Fertility
One generation study, oral, (mouse) NOAEL (parental): 3.5%,
Fertility and mating indices were decreased. The survival and growth rates were reduced.

Developmental Toxicity/Teratogenicity
mouse, oral, NOAEL (maternal): 1,250 mg/kg,
Fetotoxicity seen only with maternal toxicity.

Toxicity Data for Dimethylethanolamine
Acute Oral Toxicity
LD50: 2,000 mg/kg (Rat)

Acute Inhalation Toxicity
LC50: 6.1 mg/l, (Rat)

Acute dermal toxicity
LD50: 1,220 - 3,135 mg/kg (rabbit)

Skin Irritation
rabbit, Draize, Mild skin irritation
rabbit, OECD Guideline for Testing of Chemicals, No. 404, Exposure Time: 1 hrs, Corrosive
Eye Irritation
rabbit, Draize, Corrosive

Sensitization
dermal: sensitizer (mouse, Mouse local lymphoma assay)

Repeated Dose Toxicity
90 Days, inhalation: NOAEL: 24 ppm, (Rat, Male/Female, 6 hrs/day 5 days/week)
Irritation to lungs and nasal cavity. Reduced body weight gain.

Mutagenicity
Genetic Toxicity in Vitro:
(Salmonella typhimurium, Metabolic Activation: with/without)
Genetic Toxicity in Vivo:
Micronucleus Assay: (mouse, Male/Female, intraperitoneal)

Carcinogenicity
mouse, females, oral, 123 weeks,
negative

Toxicity to Reproduction/Fertility
inhalation, daily, (Rat, Female) NOAEL (parental): 10 ppm, NOAEL (F2): 100 ppm
No effects on Reproductive parameters observed at doses tested.

Developmental Toxicity/Teratogenicity
rat, female, inhalation, gestation, NOAEL (teratogenicity): 100 ppm, NOAEL (maternal): 10 ppm
No Teratogenic effects observed at doses tested. No fetotoxicity observed at doses tested.

12. Ecological Information

Ecological Data for Polyether Polyol
Biological Oxygen Demand (BOD)
5 Days, 6 %
20 Days, 77 %

Chemical Oxygen Demand (COD)
1.84 mg/g

Acute and Prolonged Toxicity to Fish
LC50: > 10,000 mg/l (Fathead minnow (Pimephales promelas), 96 hrs)

Acute Toxicity to Aquatic Invertebrates
EC50: > 10,000 mg/l (Water flea (Daphnia magna), 48 hrs)

Toxicity to Microorganisms
> 5,000 mg/l, (16 hrs)

Ecological Data for Hydrofluorocarbon
Acute and Prolonged Toxicity to Fish
LC50: > 97.9 mg/l (Rainbow trout (Salmo gairdneri), 48 h)

Acute Toxicity to Aquatic Invertebrates
EC50: 81.8 mg/l (Water flea (Daphnia magna), 96 h)
Ecological Data for Chlorinated Phosphate Ester

Biodegradation
Aerobic, 0 %, Exposure time: 28 Days, Not readily biodegradable.

Bioaccumulation
Carp, Exposure time: 42 Days, approximately 0.8 - 2.8 BCF

Acute and Prolonged Toxicity to Fish
LC50: approximately 84 mg/l (Bluegill (Lepomis macrochirus), 96 hrs)
LC50: 51 mg/l (Fathead minnow (Pimephales promelas), 96 hrs)
LC50: 30 mg/l (Guppy (Poecilia reticulata), 96 hrs)

Acute Toxicity to Aquatic Invertebrates
EC50: approximately 131 mg/l (Water flea (Daphnia magna), 48 hrs)

Toxicity to Aquatic Plants
EC50: 45 mg/l, End Point: biomass (Green algae (Scenedesmus subspicatus), 72 hrs)
EC50: 41 - 55 mg/l, End Point: biomass (Green algae (Selenastrum capricornutum), 96 h)

Toxicity to Microorganisms
EC50: 295 mg/l, (Photobacterium phosphoreum, 30 min)
EC50: 784 mg/l, (Activated sludge microorganisms, 3 hrs)

Ecological Data for Glycol

Biological Oxygen Demand (BOD)
5 Days, 4 %
20 Days, 53 %

Acute and Prolonged Toxicity to Fish
LC50: > 10,000 mg/l (Fathead minnow (Pimephales promelas), 48 hrs)
LC0: > 1,000 mg/l (Bluegill (Lepomis macrochirus), 96 h)

Acute Toxicity to Aquatic Invertebrates
EC50: > 10,000 mg/l (Water flea (Daphnia magna), 24 hrs)

Toxicity to Aquatic Plants
NOEC: 100 mg/l, End Point: growth (selenastrum capricornutum, 7 d)

Toxicity to Microorganisms
> 10,000 mg/l, (Other bacteria)

Ecological Data for Dimethylethanolamine

Biodegradation
aerobic, > 90 %, Exposure time: 13 Days, Readily biodegradable.

Biological Oxygen Demand (BOD)
285 O2/g

Chemical Oxygen Demand (COD)
485 O2/g

Acute and Prolonged Toxicity to Fish
LC50: 81 mg/l (Fathead minnow (Pimephales promelas), 96 h)
LC50: 100 - 220 mg/l (Golden orfe (Leuciscus idus), 96 h)

Acute Toxicity to Aquatic Invertebrates
EC50: 98 mg/l (Water flea (Daphnia magna), 48 h)
Toxicity to Aquatic Plants
EC50: 35 mg/l, (Green algae (Scenedesmus subspicatus), 72 h)

Toxicity to Microorganisms
EC50: > 8,000 mg/l, (Pseudomonas putida, 71 hrs)

13. Disposal considerations

Waste Disposal Method
Waste disposal should be in accordance with existing federal, state and local environmental control laws.

Empty Container Precautions
Recondition or dispose of empty container in accordance with governmental regulations.

14. Transportation information

Land transport (DOT)
Non-Regulated

Sea transport (IMDG)
Non-Regulated

Air transport (ICAO/IATA)
Proper Shipping Name: Aviation regulated liquid, n.o.s. (contains Hydrofluorocarbon)
Hazard Class or Division: 9
UN-No: UN3334
Packaging Group: Hazard Label(s): Miscellaneous

15. Regulatory Information

United States Federal Regulations

OSHA Hazcom Standard Rating: Hazardous

US. Toxic Substances Control Act: Listed on the TSCA Inventory.

US. EPA CERCLA Hazardous Substances (40 CFR 302):
Components
None

SARA Section 311/312 Hazard Categories:
Acute Health Hazard, Chronic Health Hazard

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III
Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A):
Components
None

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required:

**Components**
None

US. EPA Resource Conservation and Recovery Act (RCRA) Composite List of Hazardous Wastes and Appendix VIII Hazardous Constituents (40 CFR 261);

If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

**State Right-To-Know Information**
The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

**Massachusetts, New Jersey or Pennsylvania Right to Know Substance Lists:**

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<thead>
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<th>Components</th>
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<td>Aromatic Amino Polyol</td>
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</tr>
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<td>Polymer</td>
<td>CAS# is a trade secret</td>
</tr>
<tr>
<td>&gt;=1%</td>
<td>Polyester Polyol</td>
<td>CAS# is a trade secret</td>
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<td>&gt;=1%</td>
<td>Polyether Polyol</td>
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<tr>
<td>7 - 13%</td>
<td>Hydrofluorocarbon</td>
<td>460-73-1</td>
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<tr>
<td>5 - 10%</td>
<td>Chlorinated Phosphate Ester</td>
<td>CAS# is a trade secret</td>
</tr>
<tr>
<td>1 - 5%</td>
<td>Glycol</td>
<td>CAS# is a trade secret</td>
</tr>
<tr>
<td>1 - 2%</td>
<td>Dimethylethanolamine</td>
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**California Prop. 65:**
Warning! This product contains chemical(s) known to the State of California to be Carcinogenic.

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<th>CAS-No.</th>
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<tbody>
<tr>
<td>&lt;10 ppb</td>
<td>Formaldehyde</td>
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<tr>
<td>7 ppb</td>
<td>Formaldehyde</td>
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**16. Other Information**

**NFPA 704M Rating**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>Health</td>
<td>2</td>
</tr>
<tr>
<td>Flammability</td>
<td>1</td>
</tr>
</tbody>
</table>

Material Name: NC 245 - 30
Article Number: 6664393
Page: 12 of 13 Report Version: 1.9
Reactivity 0
Other
0=Insignificant  1=Slight  2=Moderate  3=High  4=Extreme

HMIS Rating

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>2*</td>
</tr>
<tr>
<td>Flammability</td>
<td>1</td>
</tr>
<tr>
<td>Physical Hazard</td>
<td>0</td>
</tr>
</tbody>
</table>
0=Minimal  1=Slight  2=Moderate  3=Serious  4=Severe
* = Chronic Health Hazard

The method of hazard communication for National Coatings Corp. is comprised of Product Labels and Material Safety Data Sheets. HMIS and NFPA ratings are provided by National Coatings Corp. as a customer service.

Contact Person: Product Safety Department
Telephone: (800) 423-9557
MSDS Number: 00000005992
Version Date: 11/22/2007
Report Version: 1.9

This information is furnished without warranty, express or implied. This information is believed to be accurate to the best knowledge of National Coatings Corp. The information in this MSDS relates only to the specific material designated herein. National Coatings Corp. assumes no legal responsibility for use of or reliance upon the information in this MSDS.