# **Safety Data Sheet**

Issue Date 03-Oct-2011

Revision Date: 07-Sep-2014

Version 10

## 1. IDENTIFICATION

Product Identifier

**Product Name** 

Med 1

Other Means of Identification

**Product Code** 

G00151

Recommended use of the Chemical and Restrictions on Use

Recommended Use

Degreaser cleaner. For industrial use.

Details of the Supplier of the Safety Data Sheet

Dade Paper Company 9601 NW 112th Avenue Miami, Florida 33178

**Emergency Telephone Number** 

Company Phone Number Emergency Telephone (24 hr)

Phone: 1-800-226-3233

INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

#### 2. HAZARDS IDENTIFICATION

Appearance Colorless

Physical State Liquid

**Odor** Characteristic

## Classification

Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1

## **Hazards Not Otherwise Classified (HNOC)**

May be harmful if swallowed.

#### Signal Word

Danger

#### **Hazard Statements**

Causes severe skin burns and eye damage.

#### Precautionary Statements - Prevention

Do not breathe dust/fume/gas/mist/vapors/spray.

Wash face, hands and any exposed skin thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

#### Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

Wash contaminated clothing before reuse.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Immediately call a POISON CENTER or doctor/physician.

IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

#### Precautionary Statements - Storage

Store locked up

## Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant



## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Welght-%
Water	7732-18-5	60-100
Ethylene Glycol n-Butyl Ether	111-76-2	3-7
Sodium Metasilicate	6834-92-0	3-7
Alcohols, C9-11 ethoxylated	68439-46-3	1-5
Sodium Xylene Sulfonate	1300-72-7	1-5

<sup>\*\*</sup>If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret\*\*

## 4. FIRST-AID MEASURES

#### First Aid Measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove and discard contact lenses. Seek immediate medical attention/advice.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated

clothing. Wash contaminated clothing before reuse. If skin irritation persists, call a

physician.

**Inhalation** Remove to fresh air. Seek immediate medical attention/advice.

**Ingestion** Rinse mouth. Drink plenty of water. Call a physician or poison control center immediately.

Do not induce vomiting. Never give anything by mouth to an unconscious person.

#### Most Important Symptoms and Effects

**Symptoms** 

Corrosive to eyes. Contact will cause irritation and redness to exposed areas. Prolonged contact may even cause severe skin irritation or mild burn. Chronic exposure may cause

liver, kidney and/or blood disorders.

## Indication of any Immediate Medical Attention and Special Treatment Needed

Notes to Physician

Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

Water spray (fog). Carbon dioxide (CO2). Dry chemical. Foam.

#### Unsuitable Extinguishing Media

Not determined.

#### Specific Hazards Arising from the Chemical

None known.

#### Protective Equipment and Precautions for Firefighters

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

#### 6. ACCIDENTAL RELEASE MEASURES

## Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions

Use personal protective equipment as required.

**Environmental Precautions** 

Avoid release to the environment.

Med 1

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

Methods for Containment

Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up

Collect spillage. Collect in a clean, dry waste container for disposal. Dilute remaining

residue with water and neutralize with dilute acetic acid (vinegar).

#### 7. HANDLING AND STORAGE

#### **Precautions for Safe Handling**

Advice on Safe Handling

Wash thoroughly after handling. Use personal protection recommended in Section 8. Do

not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.

## Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep locked up and

out of reach of children. Keep from freezing.

Incompatible Materials

Acids. Oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethylene Glycol n-Butyl Ether 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m³ (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m³ (vacated) S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m³
Sodium Metasilicate 6834-92-0	2 mg/m³	2 mg/m³	-

## **Appropriate Engineering Controls**

**Engineering Controls** 

Ventilation systems. Eyewash stations. Showers.

## Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection

Splash goggles or safety glasses.

Skin and Body Protection

Rubber, Nitrile, PVC, or other chemically resistant skin protection to prevent contact.

**Respiratory Protection** 

Ensure adequate ventilation, especially in confined areas.

**General Hygiene Considerations** 

Handle in accordance with good industrial hygiene and safety practice.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on Basic Physical and Chemical Properties

**Physical State** 

Liquid

**Appearance** 

Clear Colorless Odor Odor Threshold Characteristic
Not determined

Color

Values

Remarks · Method

pH Melting Point/Freezing Point Bolling Point/Boiling Range 12.5-13.0 ~ 0 ℃ / ~32 ℉ ~ 100 ℃ / ~212 ℉

Flash Point Evaporation Rate Not applicable Not determined Med 1

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Flammability (Solid, Gas)
Upper Flammability Limits
Lower Flammability Limit
Vapor Pressure
Vapor Density
Not determined
Not determined
Not determined

Specific Gravity 1.04

Water Solubility
Solubility in other solvents
Partition Coefficient
Auto-ignition Temperature
Decomposition Temperature

Completely soluble
Not determined
Not determined
Not determined

Auto-ignition Temperature
Decomposition Temperature
Kinematic Viscosity
Dynamic Viscosity
Explosive Properties
Not determined

## 10. STABILITY AND REACTIVITY

@ 25 °C (77 °F)

#### Reactivity

Not reactive under normal conditions.

### **Chemical Stability**

Stable under recommended storage conditions.

## **Possibility of Hazardous Reactions**

None under normal processing.

#### **Conditions to Avoid**

Keep out of reach of children. Keep from freezing.

#### **Incompatible Materials**

Acids. Oxidizing agents.

### **Hazardous Decomposition Products**

When exposed to fire, produces normal products of combustion.

## 11. TOXICOLOGICAL INFORMATION

## Information on Likely Routes of Exposure

**Product Information** 

Eye Contact

Causes severe eye damage.

**Skin Contact** 

Causes severe skin burns.

Inhalation

Avoid breathing vapors or mists.

Ingestion

May be harmful if swallowed.

## Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Ethylene Glycol n-Butyl Ether 111-76-2	= 470 mg/kg (Rat)	= 2270 mg/kg ( Rat ) = 220 mg/kg ( Rabbit )	= 2.21 mg/L (Rat) 4 h = 450 ppm (Rat) 4 h
Sodium Metasilicate 6834-92-0	= 600 mg/kg (Rat)	-	
Alcohols, C9-11 ethoxylated 68439-46-3	= 1378 mg/kg ( Rat )	> 2 g/kg (Rabbit)	-
Sodium Xylene Sulfonate 1300-72-7	= 7200 mg/kg (Rat)	-	-

## Information on Physical, Chemical and Toxicological Effects

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**Symptoms** 

Please see section 4 of this SDS for symptoms.

## Delayed and Immediate Effects as well as Chronic Effects from Short and Long-Term Exposure

Carcinogenicity

Not classifiable as a human carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Ethylene Glycol n-Butyl				
Ether	АЗ	Group 3		
111-76-2				

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 3 IARC components are "not classifiable as human carcinogens"

#### **Numerical Measures of Toxicity**

Not determined

#### 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Ethylene Glycol n-Butyl Ether 111-76-2	-	1490: 96 h Lepomis macrochirus mg/L LC50 static 2950: 96 h Lepomis macrochirus mg/L LC50	-	1698 - 1940: 24 h Daphnia magna mg/L EC50 1000: 48 h Daphnia magna mg/L EC50
Sodium Metasilicate 6834-92-0	-	210: 96 h Brachydanio rerio mg/L LC50 semi-static 210: 96 h Brachydanio rerio mg/L LC50		216: 96 h Daphnia magna mg/L EC50

## Persistence/Degradability

Not determined

#### **Bioaccumulation**

Not determined

#### Mobility

Chemical Name	Partition Coefficient
Ethylene Glycol n-Butyl Ether 111-76-2	0.81

## **Other Adverse Effects**

Not determined

## 13. DISPOSAL CONSIDERATIONS

## **Waste Treatment Methods**

**Disposal of Wastes** 

Disposal should be in accordance with applicable regional, national and local laws and

regulations.

**Contaminated Packaging** 

Disposal should be in accordance with applicable regional, national and local laws and

regulations.

## 14. TRANSPORT INFORMATION

DOT

Gallon Container or Larger: UN 3266, Corrosive Liquid, Basic, inorganic, NOS(Containing

Potassium Hydroxide), 8, PG II

Quart Container or Smaller: Consumer Commodity ORM-D or Limited Quantity

IATA

**IMDG** 

## 15. REGULATORY INFORMATION

#### NOT FOR SALE IN CALIFORNIA

#### International Inventories

Not determined

#### US Federal Regulations

## SARA 311/312 Hazard Categories

Acute Health Hazard Chronic Health Hazard Reactive Hazard

Yes Yes Yes

#### **SARA 313**

Chemical Name	CAS No	Welght-%	SARA 313 - Threshold Values %
Ethylene Glycol n-Butyl Ether	111-76-2	3-7	1.0

#### **US State Regulations**

## U.S. State Right-to-Know Regulations

[	Chemical Name	State List
	Ethylene Glycol n-Butyl Ether 111-76-2	MA, NJ, PA

AZ - Arizona Ambient Air Quality Guidelines

CT - Connecticut Hazardous Air Pollutants

CA - California Director's List of Hazardous Substances

CAP65 - California Prop 65

FL - Florida Substances List

ID - Idaho Non-Carcinogen Toxic Air Pollutants

IL - Illinois Toxic Air Contaminate- Carcinogenic

MA - Massachusetts Right to Know List

MN – Minnesota Hazardous Substances List

NJ - New Jersey Right to Know List

PA - Pennsylvania Right to Know List

RI - Rhode Ísland Hazardous Substances List

## 16. OTHER INFORMATION

NFPA\_

**Health Hazards** 

Flammability

Instability
Not determined

Special Hazards
Not determined

<u>HMIS</u>

Not determined Health Hazards Not determined Flammability

Physical Hazards

Personal Protection
Not determined

Issue Date

**Revision Date:** 

03-Oct-2011 07-Sep-2014

Revision Note

New format Version 1.0

## Disclaimer

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Keep Out of Reach of Children. For Industrial and Institutional Use Only.

**End of Safety Data Sheet** 

<sup>\*</sup>Denotes changes from last version.

# **Safety Data Sheet**

Issue Date 03-Oct-2011

Revision Date: 07-Sep-2014

Version 1.0

#### 1. IDENTIFICATION

Product Identifier

**Product Name** 

Grease 2

Other Means of Identification

**Product Code** 

G00152

Recommended Use of the Chemical and Restrictions on Use

Recommended Use

Laundry stain remover. For industrial use.

Details of the Supplier of the Safety Data Sheet

Dade Paper Company 9601 NW 112th Avenue Miami, Florida 33178

**Emergency Telephone Number** 

Company Phone Number

Phone: 1-800-226-3233

Emergency Telephone (24 hr)

INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

Appearance Yellow

Physical State Liquid

Odor Lemon

#### Classification

Skin corrosion/irritation.	Category 2
State Control of a first carrotte	Outogory 2
Serious eve damage/eve irritation.	Category 2A
Solious cyc damage/cyc intalion.	Oategory 2A

## Signal Word

Warning

## **Hazard Statements**

Causes skin irritation.

Causes serious eye irritation.

## Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

#### Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

IF ON SKIN: Wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing and wash before reuse. If skin irritation occurs: Get medical advice/attention.

SPECIFIC TREATMENT: Remove from exposure and treat symptoms.

## Precautionary Statements - Storage

No other specific measures identified.

## Precautionary Statements - Disposal

No other specific measures identified.



Grease 2 Revision Date: 07-Sep-2014

## 3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Water	7732-18-5	60-100
Alcohols, C9-11 ethoxylated	68439-46-3	1-5

<sup>\*\*</sup>If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

## 4. FIRST-AID MEASURES

## First Aid Measures

Ingestion

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek

medical attention/advice if irritation persists.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated

clothing. Wash contaminated clothing before reuse.

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Rinse mouth. Drink plenty of water. Do not induce vomiting. If any discomfort persists,

obtain medical attention.

#### Most Important Symptoms and Effects

Symptoms May cause painful stinging or burning of eyes and lids, watering of eyes. Prolonged contact

may cause skin irritation.

## Indication of any Immediate Medical Attention and Special Treatment Needed

Notes to Physician Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

Water spray (fog). Carbon dioxide (CO2). Dry chemical. Foam.

#### Unsuitable Extinguishing Media

Not determined.

## Specific Hazards Arising from the Chemical

None known.

## **Protective Equipment and Precautions for Firefighters**

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

## 6. ACCIDENTAL RELEASE MEASURES

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

**Personal Precautions**Use personal protective equipment as required.

**Environmental Precautions** Avoid release to the environment.

## Methods and Material for Containment and Cleaning Up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up Collect spillage. Collect in a clean, dry waste container for disposal. After cleaning, flush

away traces with water.

## 7. HANDLING AND STORAGE

#### **Precautions for Safe Handling**

Advice on Safe Handling

Wash thoroughly after handling. Use personal protection recommended in Section 8. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with eyes. Observe good

industrial hygiene practices.

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

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep locked up and

out of reach of children. Keep from freezing.

Incompatible Materials

Strong acids. Oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
None Listed			

#### **Appropriate Engineering Controls**

**Engineering Controls** 

Ventilation systems.

#### Individual Protection Measures, such as Personal Protective Equipment

**Eye/Face Protection** 

Eye protection should be used when splashing may occur.

Skin and Body Protection

Wear protective gloves when handling this product.

**Respiratory Protection** 

No protection is ordinarily required under normal conditions of use and with adequate

ventilation.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on Basic Physical and Chemical Properties

**Physical State** 

Liquid

**Appearance** 

Clear

Odor

Lemon

Color

Yellow

Odor Threshold

Not determined

**Property** 

<u>Values</u>

Remarks · Method

рΗ

12.0-12.5 ~0 °C / ~32 °F

Melting Point/Freezing Point **Boiling Point/Boiling Range** 

~ 100 °C / ~212 °F

Tag Open Cup

Flash Point

Not applicable

**Evaporation Rate** 

Not determined

Flammability (Solid, Gas)

**Upper Flammability Limits** 

n/a-liquid

Lower Flammability Limit

Not determined Not determined

Vapor Pressure **Vapor Density** 

Not determined Not determined

1.02

@ 25 °C (77 °F)

Specific Gravity Water Solubility

Kinematic Viscosity

Completely soluble

Solubility in other solvents **Partition Coefficient Auto-ignition Temperature Decomposition Temperature**  Not determined Not determined Not determined Not determined Not determined

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Grease 2

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Dynamic Viscosity
Explosive Properties
Oxidizing Properties

Not determined Not determined Not determined

## 10. STABILITY AND REACTIVITY

#### Reactivity

Not reactive under normal conditions.

#### **Chemical Stability**

Stable under recommended storage conditions.

## Possibility of Hazardous Reactions

None under normal processing.

#### **Conditions to Avoid**

Keep out of reach of children. Keep from freezing.

#### Incompatible Materials

Strong acids. Oxidizers.

#### **Hazardous Decomposition Products**

When exposed to fire, produces normal products of combustion.

## 11. TOXICOLOGICAL INFORMATION

#### Information on Likely Routes of Exposure

**Product Information** 

**Eye Contact** 

Avoid contact with eyes.

**Skin Contact** 

Avoid contact with skin.

Inhalation

Avoid breathing vapors or mists.

Ingestion

Do not taste or swallow.

#### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Alcohols, C9-11 ethoxylated 68439-46-3	= 1378 mg/kg (Rat)	> 2 g/kg (Rabbit)	-

## Information on Physical, Chemical and Toxicological Effects

**Symptoms** 

Please see section 4 of this SDS for symptoms.

## Delayed and Immediate Effects as well as Chronic Effects from Short and Long-Term Exposure

Carcinogenicity

Not classifiable as a human carcinogen.

#### Numerical Measures of Toxicity

Not determined

## 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Chemical Name Algae/aquatic plants Fish	Toxicity to microorganisms	Crustacea
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Grease 2

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## Persistence/Degradability

Not determined.

## **Bioaccumulation**

Not determined.

#### **Mobility**

Not determined.

## **Other Adverse Effects**

Not determined.

## 13. DISPOSAL CONSIDERATIONS

## **Waste Treatment Methods**

**Disposal of Wastes** 

Disposal should be in accordance with applicable regional, national and local laws and

regulations.

**Contaminated Packaging** 

Disposal should be in accordance with applicable regional, national and local laws and

regulations.

## 14. TRANSPORT INFORMATION

DOT

Not regulated

**IATA** 

Not regulated

<u>IMDG</u>

Not regulated

## 15. REGULATORY INFORMATION

## **International Inventories**

Not determined

#### US Federal Regulations

## **CERCLA**

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Potassium Hydroxide	1000 lb		RQ 1000 lb final RQ
1310-58-3	1000 is	·	RQ 454 kg final RQ

#### SARA 311/312 Hazard Categories

**Acute Health Hazard** 

Yes

## **SARA 313**

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Ethylene Glycol n-Butyl Ether	111-76-2	0.1-1	1.0

## **CWA (Clean Water Act)**

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Potassium Hydroxide 1310-58-3	1000 lb			X

#### **US State Regulations**

Revision Date: 07-Sep-2014

#### U.S. State Right-to-Know Regulations

Chemical Name	State List
Potassium Hydroxide 1310-58-3	MA, NJ, PA
Ethylene Glycol n-Butyl Ether 111-76-2	MA, NJ, PA

AZ- Arizona Ambient Air Quality Guidelines

CT- Connecticut Hazardous Air Pollutants

CA- California Director's List of Hazardous Substances

CAP65- California Prop65

FL- Florida Substances List

ID- Idaho Non-Carcinogen Toxic Air Pollutants

IL - Illinois Toxic Air Contaminate- Carcinogenic

MA - Massachusetts Right to Know List

MN - Minnesota Hazardous Substances List

NJ - New Jersey Right to Know List

PA - Pennsylvania Right to Know List

RI - Rhode Island Hazardous Substances List

#### 16. OTHER INFORMATION

**NFPA** 

<u>HMIS</u>

**Health Hazards** Not determined **Health Hazards** 

Flammability Not determined

Flammability

Instability Not determined

Physical Hazards

Special Hazards Not determined Personal Protection

Not determined

Issue Date

**Revision Date:** 

03-Oct-2011

07-Sep-2014

**Revision Note** 

New format Version 1.0

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\*Denotes changes from last version.

**End of Safety Data Sheet** 

## **Safety Data Sheet**

Issue Date 03-Oct-2011

Revision Date: 07-Sep-2014

Version 1.0

#### 1. IDENTIFICATION

Product Identifier

**Product Name** 

Protein 3

Other Means of Identification

**Product Code** 

G00153

Recommended Use of the Chemical and Restrictions on Use

Recommended Use

Laundry stain remover. For industrial use.

Details of the Supplier of the Safety Data Sheet

Dade Paper Company 9601 NW 112<sup>th</sup> Avenue Miami, Florida 33178

Emergency Telephone Number

Company Phone Number

Phone: 1-800-226-3233

Emergency Telephone (24 hr)

INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

Appearance Blue

Physical State Liquid

Odor None

Classification

Serious Eye Damage/Eye Irritation

Category 2 Sub-category B

## Signal Word

Warning

## **Hazard Statements**

Causes eye irritation.

#### Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling.

#### Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

#### Precautionary Statements - Storage

No other specific measures identified.

## Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant.

#### Other Hazards

None known.

#### **Unknown Acute Toxicity**

None known.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Water	7732-18-5	60~100
Diethylene Glycol Monomethyl Ether	111-77-3	1-5
Poly(Oxyethylene/Oxypropylene) Glycol Copolymer (Polyoxyalkylene Glycol Polyether Polyol)	9003-11-6	1-5

Protein 3		Revision Date: 07-Sep-2014
Sodium Thiosulfate	10102-17-7	1-5

<sup>\*\*</sup>If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

#### 4. FIRST-AID MEASURES

**First Aid Measures** 

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If

irritation develops or persists seek medical attention.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes.

**Inhalation** Remove to fresh air.

**Ingestion** Clean mouth with water and drink afterwards plenty of water. If any discomfort persists,

obtain medical attention.

Most Important Symptoms and Effects

**Symptoms** Contact with eyes may cause irritation and redness.

Indication of Any Immediate Medical Attention and Special Treatment Needed

Notes to Physician Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES.

Suitable Extinguishing Media

Water spray (fog). Carbon dioxide (CO2). Water. Foam.

Unsuitable Extinguishing Media

Not determined.

Specific Hazards Arising from the Chemical

None known.

**Hazardous Combustion Products** 

Normal products of combustion.

Protective Equipment and Precautions for Firefighters

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

## 6. ACCIDENTAL RELEASE MEASURES

## Personal Precautions. Protective Equipment and Emergency Procedures

**Personal Precautions** Wear protective clothing as described in Section 8 of this safety data sheet.

Environmental Precautions Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See

Section 12, Ecological Information. See Section 13, Disposal Considerations, for additional

information. See Section 12 for additional Ecological Information.

Methods and Material for Containment and Cleaning Up

Methods for Containment Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other

appropriate barriers.

Methods for Clean-Up Contain and collect with an inert absorbent and place into an appropriate container for

disposal. Rinse area with clean water and dry before permitting traffic.

## 7. HANDLING AND STORAGE

Protein 3

Precautions for Safe Handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Use personal

protection recommended in Section 8. For industrial and commercial use only. Avoid

contact with skin, eyes or clothing.

Conditions for Safe Storage, Including Any Incompatibilities

Storage Conditions

Keep container tightly closed and store in a cool, dry and well-ventilated place. Protect from

freezing. Keep out of the reach of children.

Incompatible Materials

None known based on information supplied.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Exposure Guidelines

······			
Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
	HOGHI IET	OOTATEE	MOOITIDGIT
None known			

#### Appropriate Engineering Controls

**Engineering Controls** 

Ensure adequate ventilation, especially in confined areas. Good general room ventilation (equivalent to outdoors) should be adequate under normal conditions. Eyewash stations.

Showers.

#### Individual Protection Measures, such as Personal Protective Equipment

**Eye/Face Protection** 

Eye protection should be used when splashing may occur.

Skin and Body Protection

Wear protective gloves when handling this product.

Respiratory Protection

Under normal conditions, respirator is not normally required.

**General Hygiene Considerations** 

Handle in accordance with good industrial hygiene and safety practice.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on Basic Physical and Chemical Properties

Physical State

Liquid

Appearance

Clear

Color

Blue

Odor Threshold

No added fragrance Not determined

Revision Date: 07-Sep-2014

**Property** 

<u>Values</u>

Remarks • Method

pH (concentrate) Melting Point/Freezing Point

Boiling Point/Boiling Range Flash Point **Evaporation Rate** Flammability (Solid, Gas)

**Upper Flammability Limits** Lower Flammability Limit Vapor Pressure Vapor Density

Specific Gravity

Water Solubility Solubility in other solvents **Partition Coefficient Auto-ignition Temperature Decomposition Temperature** Kinematic Viscosity

Dynamic Viscosity **Explosive Properties**  9.4-9.9

Approximately 32°F Approximately 212 °F Not applicable Not determined Liquid-not applicable Not applicable Not applicable Not determined Not determined

1.01 Completely soluble

Not determined Not determined Not determined Not determined Not determined Not determined Not an explosive

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Not determined

Revision Date: 07-Sep-2014

## 10. STABILITY AND REACTIVITY

#### Reactivity

Not reactive under normal conditions.

#### **Chemical Stability**

Stable under recommended storage conditions.

#### Possibility of Hazardous Reactions

None under normal processing.

#### **Hazardous Polymerization**

Hazardous polymerization does not occur.

#### Conditions to Avoid

Keep out of reach of children. Avoid excessive heat, sparks, or open flames. Keep from freezing.

#### **Incompatible Materials**

Strong oxidizing agents, acids, and alkalis.

#### **Hazardous Decomposition Products**

Thermal decomposition may produce oxides of carbon, sodium, and hydrogen sulfide.

## 11. TOXICOLOGICAL INFORMATION

#### Information on Likely Routes of Exposure

#### **Product Information**

Eye Contact Avoid contact with eyes.

**Skin Contact** Avoid contact with skin.

**Inhalation** Avoid breathing vapors or mists.

**Ingestion** Do not taste or swallow.

#### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Diethylene Glycol Monomethyl Ether 111-77-3	5500mg/kg (Rat)	650mg/kg (Rabbit)	-
Poly(Oxyethylene/Oxypropylene) Glycol Copolymer (Polyoxyalkylene Glycol Polyether Polyol) 9003-11-6	>2000mg/kg (Rat)	-	-
Sodium Thiosulfate 10102-17-7	2700 mg/kg (Mouse)	-	<b>u</b>

#### Information on Physical, Chemical and Toxicological Effects

**Symptoms** Please see section 4 of this SDS for symptoms.

## Delayed and Immediate Effects as well as Chronic Effects from Short and Long-Term Exposure

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA,

IARC or NTP.

## **Numerical Measures of Toxicity**

Not determined

## 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Protein 3 Revision Date: 07-Sep-2014

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

#### Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Diethylene Glycol Monomethyl Ether 111-77-3	-	-	-	-
Poly(Oxyethylene/Oxypropylene ) Glycol Copolymer (Polyoxyalkylene Glycol Polyether Polyol) 9003-11-6	>100mg/L (72hr)	>100mg/L (96hr)	-	>100mg/L (48hr)
Sodium Thiosulfate 10102-17-7	-	-	-	-

#### Persistence/Degradability

Not expected to persist.

#### **Bioaccumulation**

Not expected to bioaccumulate.

#### Mobility

Not determined

#### Other Adverse Effects

Not determined

## 13. DISPOSAL CONSIDERATIONS

#### **Waste Treatment Methods**

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and

regulations.

## 14. TRANSPORT INFORMATION

**Note** Please see current shipping paper for most up to date shipping information, including

exemptions and special circumstances.

**DOT** Not regulated. (NOI Non-Hazardous)

**IATA** Not regulated.

IMDG Not regulated.

## 15. REGULATORY INFORMATION

## International Inventories

Not determined

#### Legend:

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

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

Protein 3

US Federal Regulations

#### **CERCLA**

None Listed

#### SARA 311/312 Hazard Categories

Immediate (Acute) Health.

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains the following chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part

Diethylene Glycol Monomethyl Ether: 2%

#### CWA (Clean Water Act)

None known.

#### **US State Regulations**

None known

#### California Proposition 65

This product does not contain any Proposition 65 chemicals.

## U.S. State Right-to-Know Regulations

The following ingredients appear on various state right to know lists and/or California's Proposition 65 List:

Chemical Name	State List
Diethylene Glycol Monomethyl Ether 111-77-3	MA, PA
Ethylene Oxide 75-21-8	CAP65

AZ- Arizona Ambient Air Quality Guidelines

CT- Connecticut Hazardous Air Pollutants

CA- California Director's List of Hazardous Substances

CAP65- California Prop65

FL- Florida Substances List

ID- Idaho Non-Carcinogen Toxic Air Pollutants

IL- Illinois Toxic Air Contaminate- Carcinogenic

MA- Massachusetts Right to Know List

MN- Minnesota Hazardous Substances List

NJ- New Jersey Right to Know List

PA- Pennsylvania Right to Know List

RI- Rhode Island Hazardous Substances List

## 16. OTHER INFORMATION

NEPA... HMIS

**Health Hazards** 

Not determined

**Health Hazards** 1

Flammability Not determined

Flammability 0

Instability Not determined

Physical Hazards 0

Special Hazards Not determined Personal Protection Not determined

Revision Date: 07-Sep-2014

Issue Date

03-Oct-2011

**Revision Date:** 

07-Sep-2014

**Revision Note** 

Update format Version 1.0

#### **Disclaimer**

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

Keep Out of Reach of Children. For Industrial and Institutional Use Only.

**End of Safety Data Sheet** 

<sup>\*</sup>Denotes changes from last version.

# **Safety Data Sheet**

## 1. IDENTIFICATION

Product Identifier

Product Name Iron 4

Other Means of Identification

Product Code G00154

Recommended use of the Chemical and Restrictions on Use

Recommended Use Rust and mineral stain remover. For industrial use.

Details of the Supplier of the Safety Data Sheet

Dade Paper Company 9601 NW 112th Avenue Miami, Florida 33178

**Emergency Telephone Number** 

Company Phone Number Emergency Telephone (24 hr) Phone: 1-800-226-3233 INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

**Appearance** Colorless

Physical State Liquid

Odor None

#### Classification

P	
Acute toxicity - Oral	Category 5
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Corrosive to Metals	Category 1

#### Signal Word

Danger

#### **Hazard Statements**

Maybe harmful if swallowed. Causes severe skin burns and eye damage.

May be corrosive to metals.

## **Precautionary Statements - Prevention**

Do not breathe dust/fume/gas/mist/vapors/spray.

Wash face, hands and any exposed skin thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

Keep only in original container.

## <u>Precautionary Statements - Response</u>

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or doctor/physician.

Specific measures: Remove from exposure and apply calcium gluconate gel 2.5%.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Immediately call a POISON CENTER or doctor/physician.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

IN CASE OF SPILL: Absorb spillage to prevent material damage.



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## Precautionary Statements - Storage

Store locked up.

Store in corrosive resistant container with a resistant inner liner.

#### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant.

## Other Hazards

None known.

#### **Unknown Acute Toxicity**

None known.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Water	7732-18-5	60-100
Ammonium Bifluoride	1341-49-7	3-7
Oxalic Acid	6153-56-6	1-5

<sup>\*\*</sup>If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret\*\*

## 4, FIRST-AID MEASURES

#### First Ald Measures

General Advice If exposed or concerned: Get medical advice/attention. When seeking medical attention,

emphasize exposure to ammonium bifluoride.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove and discard contact lenses. Get immediate medical advice/attention.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated

clothing. Wash contaminated clothing before reuse. Get medical attention immediately.

**Inhalation** Remove to fresh air. Get medical attention immediately.

Ingestion Rinse mouth. Drink plenty of water. Do not induce vomiting. Never give anything by mouth

to an unconscious person. Seek medical attention immediately.

#### **Most Important Symptoms and Effects**

Symptoms Irritation and corrosive burns to mouth, throat, and stomach. Corrosive to eyes. Prolonged

contact may even cause severe skin irritation or mild burn. May cause hypocalcemia. Can

also cause bone and joint changes in humans (Fluorosis).

## Indication of any Immediate Medical Attention and Special Treatment Needed

Notes to Physician This product contains ammonium bifluoride.

#### 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

Water spray (fog). Carbon dioxide (CO2). Dry chemical. Foam.

## Unsuitable Extinguishing Media

Not determined.

## Specific Hazards Arising from the Chemical

Contents are corrosive and all personal contact must be avoided.

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#### Protective Equipment and Precautions for Firefighters

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

## 6. ACCIDENTAL RELEASE MEASURES

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

**Personal Precautions** 

Use personal protective equipment as required.

**Environmental Precautions** 

Avoid release to the environment.

### Methods and Material for Containment and Cleaning Up

**Methods for Containment** 

Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up

Collect spillage. Collect in a clean, dry waste container for disposal. Dilute with water and

clean up.

## 7. HANDLING AND STORAGE

### **Precautions for Safe Handling**

Advice on Safe Handling

Wash thoroughly after handling. Use personal protection recommended in Section 8. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Use only in well-ventilated areas.

#### Conditions for Safe Storage, including any Incompatibilities

**Storage Conditions** 

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep locked up and out of reach of children. Keep only in original container. Keep from freezing.

Acids. Bases. Oxidizing agents. Uncontrolled contact with water.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Exposure Guidelines**

Incompatible Materials

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ammonium Bifluoride 71341-49-7	TWA: 2,5 mg/m³	TWA: 2.5 mg/m <sup>3</sup>	-
Oxalic Acid 6153-56-6	TWA: 1 mg/m³	TWA: 1 mg/m³ STEL: 2 mg/m³	TWA: 1 mg/m³ STEL: 2 mg/m³

## **Appropriate Engineering Controls**

**Engineering Controls** 

Ventilation systems. Eyewash stations. Showers.

#### Individual Protection Measures, such as Personal Protective Equipment

**Eye/Face Protection** 

Splash goggles or safety glasses.

Skin and Body Protection

Rubber, Nitrile, PVC, or other chemically resistant skin protection to prevent contact.

**Respiratory Protection** 

Ensure adequate ventilation, especially in confined areas.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Iron 4 Revision Date: 06-Oct-2014

#### Information on Basic Physical and Chemical Properties

**Physical State** 

Liquid

Odor

None

Appearance Color

Clear Colorless

Odor Threshold

Remarks • Method

Not determined

Property

<u>Values</u> 4.5-5.0

рН Melting Point/Freezing Point Bolling Point/Boiling Range Flash Point

Not known 100 ℃ / 212 ℉ Not applicable Not determined n/a-liquid

Flammability (Solid, Gas) **Upper Flammability Limits** Lower Flammability Limit Vapor Pressure

Not determined Not determined Not determined

Not determined

Vapor Density **Specific Gravity** Water Solubility

**Evaporation Rate** 

1.03 Completely soluble Not determined

Not determined

@ 25 °C (77 °F)

Solubility in other solvents Partition Coefficient **Auto-ignition Temperature** 

**Decomposition Temperature** Kinematic Viscosity **Dynamic Viscosity Explosive Properties Oxidizing Properties** 

Not determined Not determined Not determined Not determined Not determined Not determined

## 10. STABILITY AND REACTIVITY

#### Reactivity

Not reactive under normal conditions.

### **Chemical Stability**

Stable under recommended storage conditions.

## **Possibility of Hazardous Reactions**

None under normal processing.

#### Conditions to Avoid

Keep out of reach of children. Keep from freezing.

#### **Incompatible Materials**

Acids. Bases. Oxidizing agents. Uncontrolled contact with water.

## **Hazardous Decomposition Products**

Thermal decomposition may release toxic ammonia fumes. It may generate toxic fluorides and hydrogen fluorides. Decomposition by reaction with certain metals releases flammable and explosive hydrogen gas.

## 11. TOXICOLOGICAL INFORMATION

#### Information on Likely Routes of Exposure

## **Product Information**

**Eye Contact** 

Causes severe eye damage.

Skin Contact

Causes severe skin burns.

Inhalation

Do not inhale.

Ingestion

May be harmful if swallowed.

#### Component Information

Iron 4

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Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Ammonium Bifluoride 1341-49-7	= 31 mg/kg (Rat) (Intraperitoneal)	-	= 1276 ppm (Rat) 1 h
Oxalic Acid 6153-56-6	= 7500 mg/kg (Rat)	•	-

#### Information on Physical, Chemical and Toxicological Effects

**Symptoms** 

Please see section 4 of this SDS for symptoms.

## Delayed and immediate Effects as well as Chronic Effects from Short and Long-Term Exposure

Carcinogenicity

Not a human carcinogen.

#### **Numerical Measures of Toxicity**

Not determined

**Unknown Acute Toxicity** 

None known.

#### 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Harmful to aquatic life with long lasting effects.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Ammonium Bifluoride 1341-49-7	-	> 100 mg/L (96hr)	-	м.
Oxalic Acid 6153-56-6	-	= 325 mg/L	-	-

#### Persistence/Degradability

Not determined

#### **Bioaccumulation**

Not determined

## **Mobility**

Not determined.

## **Other Adverse Effects**

Not determined

## 13. DISPOSAL CONSIDERATIONS

## **Waste Treatment Methods**

**Disposal of Wastes** 

Disposal should be in accordance with applicable regional, national and local laws and

regulations.

**Contaminated Packaging** 

Disposal should be in accordance with applicable regional, national and local laws and

regulations.

## 14. TRANSPORT INFORMATION

Note

Please see current shipping paper for most up to date shipping information, including

exemptions and special circumstances.

DOT

UN3264, Corrosive Liquid, Acidic, Inorganic, NOS (Containing Ammonium Bifluoride and

Oxalic Acid), 8, PG II

<u>IATA</u>

Revision Date: 06-Oct-2014

**IMDG** 

Marine Pollutant

This material may meet the definition of a marine pollutant

## 15. REGULATORY INFORMATION

#### **International Inventories**

Not determined

### US Federal Regulations

## **CERCLA**

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Ammonium Bifluoride	1000lb	100 lb	RQ 100 lb final RQ
1341-49-7	100015	100 10	RQ 45.4 kg final RQ

#### SARA 311/312 Hazard Categories

Acute Health Hazard Chronic Health Hazard Reactive Hazard

Yes Yes Yes

#### **SARA 313**

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Ammonium Bifluoride	1341-49-7	3-7	1.0

## CWA (Clean Water Act)

None listed.

## **US State Regulations**

## U.S. State Right-to-Know Regulations

-	Chemical Name	State List
	Ammonium Bifluoride 1341-49-7	MA, NJ, PA

AZ - Arizona Ambient Air Quality Guidelines

CT – Connecticut Hazardous Air Pollutants

CA - California Director's List of Hazardous Substances

CAP65 – California Prop 65 FL – Florida Substances List

ID - Idaho Non-Carcinogen Toxic Air Pollutants

IL - Illinois Toxic Air Contaminate

MA - Massachusetts Right to Know List

MN - Minnesota Hazardous Substances List

NJ - New Jersey Right to Know List

PA - Pennsylvania Right to Know List

RI - Rhode Island Hazardous Substances List

## 16. OTHER INFORMATION

<u>NFPA</u>

<u>HMIS</u>

**Health Hazards** 

Not determined **Health Hazards**  Flammability Not determined Flammability

Instability Not determined **Physical Hazards** 

Special Hazards Not determined Personal Protection Not determined

Issue Date

03-Oct-2011 06-Oct-2014

**Revision Date: Revision Note** 

New format Version 1.0

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**End of Safety Data Sheet** 

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