

SAFETY DATA SHEETS

This SDS packet was issued with item:

070405571

N/A

MATERIAL SAFETY DATA SHEET

Complies with OSHA's Hazard Communication Standard 29 CFR 1910.1200

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Section 1: Product and Company Identification

Product Identification: Mirror Defogger

Date Prepared: November 2014

Manufacturer: Patterson Companies, Inc.
1031 Mendota Heights Road
St. Paul, MN 55120
Tel: 1-800 328-5536
Fax: 1-651 686-9331
www.pattersoncompanies.com

Telephone: 1-856-488-1120

Emergency: (800) 424-9300

HAZARD RATING	H	1
4 = Extreme	<u>HEALTH</u>	
3 = High	F	0
2 = Moderate	<u>FLAMMABILITY</u>	
1 = Slight	R	0
0 = Insignificant	REACTIVITY	
	P	1
	<u>PROTECTION</u>	

Section 2: Hazards Identification

Form: Liquid Color: Blue liquid.

Odor: Mint fragrance

Hazard Summary: Product contains mild surfactants and benzylkonium chloride as a preservative.
Very low hazard when used according to label directions.

Potential Acute Health Effects

Skin: May cause mild irritation to skin on contact.

Eyes: May cause moderate to severe irritation when contacting eyes.

Ingestion: Slight gastrointestinal discomfort, nausea, irritation of mouth, nasal passages and throat.

Inhalation: Unlikely to cause health effects.

Chronic Exposure: Not established.

Carcinogenicity: Not listed as carcinogen.

Section 3: Composition/Information on Ingredients

Hazardous Ingredient(s)		Exposure PEL, TLV, TWA	%
FD&C Blue No. 1	3844-45-9	N/E	< 1
Nonoxynol-9	9016-45-9	N/E	< 5
EDTA, Versene Acid Chelating	60-00-4	N/E	< 1
N-Alkyldimethylbenzyl ammonium chloride	8001-54-5	N/E	< 1

Section 4: First Aid Measures

EMERGENCY FIRST AID PROCEDURES

SKIN: Flush area with water for 15 minutes. If irritation persists seek medical attention.

EYE: IMMEDIATE EYE WASH with water for 15 MINUTES. Seek immediate medical attention.

INGESTION: Drink large quantities of water. Seek immediate medical attention.

INHALATION: Remove to fresh air. If discomfort persists seek medical attention.

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Product Identification: Mirror Defogger

Section 5: Fire-Fighting Measures

Flash Point : Not flammable Flammable limits : N/A LEL : N/A UEL : N/A

Extinguishing media: Not flammable. Unusual fire and explosion hazards: None

Special Fire Fighting Procedure: Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes.

Section 6: Accidental Release Measures

Personal precautions: Use personal protection per Section 8.

Environmental precautions: Keep from contaminating soils and waterways.

Methods for cleaning up: Sweep up powder and place in appropriate disposal container.

Section 7: Handling and Storage

Handling: Use in well ventilated areas. Avoid contact with eyes.

Advice on protection against fire and explosion: Product is not flammable.

Storage: Store in well ventilated areas at ambient temp.

Advice on common storage: Do not store next to strong oxidizers and acids.

Section 8: Exposure Controls / Personal Protection

Engineering Measures: Provide normal room ventilation.

Personal Precautions: Use protective clothing as specified below.

Eye Protection: Use safety goggles or approved safety glasses.

Hand Protection: Use protective gloves and discard after contact with product.

Skin and body protection: Pants, long sleeves, clinical jacket.

Respiratory protection: Not normally required as long as adequate room ventilation is present.

Hygiene measures: Wash hands after using. Emergency eye wash station must be available.
Launder contaminated clothing.

Exposure Guidelines: None determined.

Section 9: Physical and Chemical Properties

Boiling Point : >101 C Specific Gravity : > 1.01 @ 20C Vapor Pressure: (mm Hg) ND

Melting Point : N/A Evaporation Rate : (n-butyl = 1) ND Vapor Density : (Air = 1) ND

Solubility in Water : Complete pH: Approx. 7

Appearance and Odor: Clear blue liquid with mint fragrance.

MATERIAL SAFETY DATA SHEET

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Production Identification: Mirror Defogger

Section 10: Stability and Reactivity

Materials to avoid: Avoid contact with strong oxidizing agents, strong acids, halogens, peroxides.

Hazardous decomposition products: Combustion may produce carbon monoxide and carbon dioxide sulfur and nitrogen oxides.

Hazardous reactions: May evolve gases if mixed with strong oxidizing agents and acids.

Section 11: Toxicological Information

Acute oral toxicity: N-Alkyldimethylbenzyl ammonium chloride = LD₅₀> 90 ml/kg (rat)

EDTA = LD₅₀> between 630-1280 mg/kg (rat)

Not listed as a carcinogen by OSHA, IARC, AGCIH, or NTP.

Section 12: Ecological Information

There is no information available at this time for this product.

Section 13: Disposal Considerations

Waste/Disposal Information: Observe all Federal, State, and Local Environmental Regulations when disposing of this product.

Use and or alterations to this product such as mixing with other materials/chemicals may significantly change the characteristics of the material and alter product hazard classifications and the proper disposal method.

Section 14: Transport Information:

Product is not classified as a Hazardous Material: (If NO, DOT Information not required)

DOT Proper Shipping name	Not required
UN-Number	Not required
Class	Not required
Packing Group	Not required

NOTICE

Information contained herein is furnished without warranties of any kind. Users should consider these data only as supplements to other information obtained by them and must make independent determinations of completeness and suitability of information from all sources to ensure proper disposal and use of materials for the safety and health of both employees and customers.

SAFETY DATA SHEET (SDS)

Complies with OSHA's Hazard Communication Standard 2012 and the Global Harmonized Standard (GHS).

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Section 1 : Identification

Product Identification: Mirror Defogger

Item Number: 040-5571

Manufactured for:

Patterson Dental Supply, Inc.

Telephone: 1-856-488-1120

1031 Mendota Heights Road

Saint Paul, MN 55120

Emergency: Info-Trac 1-800-535-5053

Recommended use: Anti-fogging dipping solution for dental mirrors.

Section 2 : Hazard(s)

Classification of the substance or mixture:

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Eye damage/irritation (Category 2B)

GHS Label elements, including precautionary statements

Hazard statement(s)

H320 Causes eye irritation

Precautionary statement(s)

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

Hazard Summary: Product contains mild surfactants and less than 0.1% benzylkonium chloride as a preservative. Very low hazard when used according to label directions.

Section 3 : Composition / information on Ingredients

Hazardous Ingredient(s)	CAS #	Exposure PEL, TLV, TWA	%
FD&C Blue No. 1	3844-45-9	N/E	< 1
Nonoxynol-9 (Surfonic N-95)	9016-45-9	N/E	< 1
N-Alkyldimethylbenzyl ammonium chloride	8001-54-5	N/E	< 1

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Product Identification: Mirror Defogger

Item Number: 040-5571

Section 4 : First-aid measures

EMERGENCY FIRST AID PROCEDURES

SKIN: Flush area with water for 15 minutes. If irritation persists seek medical attention.

EYE: IMMEDIATE EYE WASH with water for 15 MINUTES. Seek immediate medical attention.

INGESTION: Drink large quantities of water. Seek immediate medical attention.

INHALATION: Remove to fresh air. If discomfort persists seek medical attention.

Potential Acute Health Effects

Skin: May cause slight irritation to skin on contact.

Eyes: May cause slight irritation when contacting eyes.

Ingestion: Gastrointestinal discomfort, nausea, irritation of mouth, nasal passages and throat.

Inhalation: Unlikely to cause health effects.

Chronic Exposure: Not established.

Carcinogenicity: Ingredients not listed as carcinogens.

Section 5 : Fire-fighting measures

Flash Point : Not flammable **Flammable limits :** N/A **LEL :** N/A **UEL :** N/A

Extinguishing media: Not flammable.

Unusual fire and explosion hazards: None

Special Fire Fighting Procedure: Product not flammable. No special requirements.

Section 6 : Accidental release measures

Personal precautions: Use personal protection per Section 8.

Environmental precautions: Keep from contaminating soils and waterways.

Methods for cleaning up: Mop up liquid and dispose.

Section 7 : Handling and storage

Handling: Use in well ventilated areas. Avoid contact with eyes.

Advice on protection against fire and explosion: Product is not flammable. **Storage:** Store in well ventilated areas at ambient temp. Advice on common storage: **Do not store next to strong oxidizers and acids.**

SAFETY DATA SHEET (SDS)

Complies with OSHA's Hazard Communication Standard 2012 and the Global Harmonized Standard (GHS).

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Product Identification: Mirror Defogger

Item Number: 040-5571

Section 8 : Exposure control / personal protection

Engineering Measures: Provide normal room ventilation.

Personal Precautions: Use protective clothing as specified below.

Eye Protection: Use safety goggles or approved safety glasses.

Hand Protection: Use protective gloves and discard after contact with product.

Skin and body protection: Pants, long sleeves, clinical jacket.

Respiratory protection: Not normally required as long as adequate room ventilation is present.

Hygiene measures: Wash hands after using. Emergency eye wash station must be available. Launder contaminated clothing.

Section 9 : Physical chemical properties

Boiling Point : >100 C Specific Gravity : > 1.00 @ 20C Vapor Pressure: (mm Hg) ND

Melting Point : N/A Evaporation Rate : (n-butyl = 1) ND Vapor Density : (Air = 1) ND

Solubility in Water : Complete pH: 6.5 -- 7.5

Appearance and Odor: Clear, blue liquid with mint odor.

Section 10 : Stability and reactivity

Materials to avoid: Avoid contact with strong oxidizing agents, strong acids, halogens, peroxides.

Hazardous decomposition products: Product may produce carbon monoxide, carbon dioxide, sulfur and nitrogen oxides under extreme heat.

Hazardous reactions: May evolve gases if mixed with strong oxidizing agents and acids.

Section 11 : Toxicological information

Acute oral toxicity: Nonionic surfactant = LD₅₀> 1310 mg/kg (rat)

N-Alkyldimethylbenzyl ammonium chloride = LD₅₀> 90 ml/kg (rat)

Not listed as a carcinogen by OSHA, IARC, AGCIH, or NTP.

Section 12 : Ecological information

There is no information available at this time for this product.

Section 13 : Disposal consideration

Waste/Disposal Information: Observe all Federal, State, and Local Environmental Regulations when disposing of this product.

Use and or alterations to this product such as mixing with other materials/chemicals may significantly change the characteristics of the material and alter product hazard classifications and the proper disposal method.

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Product Identification: Mirror Defogger

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Section 14 : Transport information

Product is not classified as a Hazardous Material: (If NO, DOT Information not required)

DOT Proper Shipping name:	Not required
UN-Number:	Not required
Class:	Not required
Packing Group:	Not required

Section 15 : Regulatory information

None for this product.

Section 16 : Other information

Date prepared: March 2015 Revision: 1.01A Replaces previous version: 1.00A

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Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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Mirror Defogger

SECTION 1: Identification

Product identifier

Product name: Mirror Defogger

Product code: 070849182

Recommended use of the product and restriction on use

Relevant identified uses: Anti-fogging dipping solution for dental mirrors.

Uses advised against: Not determined or not applicable.

Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details

Manufacturer:

Supplier

Patterson Companies, Inc.
1031 Mendota Heights Road
St. Paul, MN 55120
1-800-328-5536 Fax:1-651-686-9331

Emergency telephone number:

United States

CHEMTREC

Within USA and Canada: 1-800-424-9300 (CHEMTREC, 24 hours)

Outside USA and Canada: +1-703-527-3887 (CHEMTREC, 24 hours)

SECTION 2: Hazard(s) identification

GHS classification: Not a hazardous substance or mixture

Label elements

Hazard pictograms: None

Signal word: None

Hazard statements: None

Precautionary statements: None

Hazards not otherwise classified: None

SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: 3844-45-9	FD&C Blue No. 1	<1
CAS number: 9016-45-9	Nonoxynol-9 (Surfonic N-95)	<1

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Mirror Defogger

CAS number: 8001-54-5	N-Alkyldimethylbenzyl ammonium chloride	<1
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Additional Information: None

SECTION 4: First aid measures

Description of first aid measures

General notes:

Not determined or not applicable.

After inhalation:

Loosen clothing as necessary and position individual in a comfortable position

Maintain an unobstructed airway

Get medical advice/attention if you feel unwell

After skin contact:

Rinse affected area with soap and water

If symptoms develop or persist, seek medical attention

After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes

If symptoms develop or persist, seek medical attention

After swallowing:

Rinse mouth thoroughly

Seek medical attention if irritation, discomfort, or vomiting persists

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

Not determined or not applicable.

Delayed symptoms and effects:

Not determined or not applicable.

Immediate medical attention and special treatment

Specific treatment:

Not determined or not applicable.

Notes for the doctor:

Not determined or not applicable.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media:

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition

Unsuitable extinguishing media:

Not determined or not applicable.

Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors

Special protective equipment for firefighters:

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

Special precautions:

Not determined or not applicable.

SECTION 6: Accidental release measures

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Mirror Defogger

Personal precautions, protective equipment and emergency procedures:

- Ensure adequate ventilation
- Ensure air handling systems are operational
- Wear protective eye wear, gloves and clothing

Environmental precautions:

- Should not be released into the environment
- Prevent from reaching drains, sewer or waterway

Methods and material for containment and cleaning up:

- Wear protective eye wear, gloves and clothing
- Absorb with non-combustible liquid-binding material (sand, diatomaceous earth (clay), acid binders, universal binders)
- Dispose of contents / container in accordance with local regulations

Reference to other sections:

- Not determined or not applicable.

SECTION 7: Handling and storage

Precautions for safe handling:

- Use only with adequate ventilation.
- Avoid breathing mist or vapor.
- Do not eat, drink, smoke or use personal products when handling chemical substances.

Conditions for safe storage, including any incompatibilities:

- Keep container tightly sealed.
- Protect from freezing and physical damage.
- Store in a cool, well-ventilated area.

SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:

- No occupational exposure limits noted for the ingredient(s).

Biological limit values:

- No biological exposure limits noted for the ingredient(s).

Information on monitoring procedures:

- Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls.
- Biological monitoring may also be appropriate for some substances.

Appropriate engineering controls:

- Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.
- Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

Personal protection equipment

Eye and face protection:

- Safety goggles or glasses, or appropriate eye protection.

Skin and body protection:

- Select glove material impermeable and resistant to the substance.
- Wear appropriate clothing to prevent any possibility of skin contact.

Respiratory protection:

- If engineering controls do not maintain airborne concentrations below recommended exposure limits

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Mirror Defogger

(where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

General hygienic measures:

- Avoid contact with skin, eyes and clothing.
- Wash hands before breaks and at the end of work.
- Wash contaminated clothing before reuse.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Clear, blue liquid with mint odor
Odor	Not determined or not available.
Odor threshold	Not determined or not available.
pH	Not determined or not available.
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	>212°F (>100°C)
Flash point (closed cup)	Not determined or not available.
Evaporation rate	Not determined or not available.
Flammability (solid, gas)	Not determined or not available.
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Vapor pressure	Not determined or not available.
Vapor density	Not determined or not available.
Density	Not determined or not available.
Relative density	Not determined or not available.
Solubilities	Not determined or not available.
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
Dynamic viscosity	Not determined or not available.
Kinematic viscosity	Not determined or not available.
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

Other information

SECTION 10: Stability and reactivity

Reactivity:

Does not react under normal conditions of use and storage.

Chemical stability:

Stable under normal conditions of use and storage.

Possibility of hazardous reactions:

None under normal conditions of use and storage.

Conditions to avoid:

None known.

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Incompatible materials:

None known.

Hazardous decomposition products:

None known.

SECTION 11: Toxicological information

Acute toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Route	Result
N-Alkyldimethylbenzyl ammonium chloride	dermal	LD50 - Rat - 700 mg/kg
	oral	LD50 - Rat - 240 mg/kg
		TDLo - Women - 266 mg/kg
	inhalation	LC50 - Rabbit - 700 mg/m3 - 4h

Skin corrosion/irritation

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data:

Name	Result
Nonoxynol-9 (Surfonic N-95)	Irritating to the skin.
N-Alkyldimethylbenzyl ammonium chloride	Causes severe skin burns and eye damage.

Serious eye damage/irritation

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data:

Name	Result
Nonoxynol-9 (Surfonic N-95)	Irritating effect on the eyes.

Respiratory or skin sensitization

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Carcinogenicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

International Agency for Research on Cancer (IARC): None of the ingredients are listed.

National Toxicology Program (NTP): None of the ingredients are listed.

Germ cell mutagenicity

Assessment: Based on available data, the classification criteria are not met.

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Product data:

No data available.

Substance data: No data available.

Reproductive toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Specific target organ toxicity (single exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Specific target organ toxicity (repeated exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Aspiration toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Information on likely routes of exposure:

No data available.

Symptoms related to the physical, chemical and toxicological characteristics:

No data available.

Other information:

No data available.

SECTION 12: Ecological information

Acute (short-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Result
Nonoxynol-9 (Surfonic N-95)	NOEC - Daphnia magna - 10.0 mg/L - 144 h
N-Alkyldimethylbenzyl ammonium chloride	LC50 - Crustaceans : 0.04 - 0.16 mg/l - 48 h
	LC50 - Fish: 0.31 - 1.9 mg/l - 96 h
	EC50 - Algae: 0.05 - 0.5 mg/l - 72h or 96 h

Chronic (long-term) toxicity

Product data: No data available.

Substance data: No data available.

Persistence and degradability

Product data: No data available.

Substance data: No data available.

Bioaccumulative potential

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Mirror Defogger

Product data: No data available.

Substance data: No data available.

Mobility in soil

Product data: No data available.

Substance data: No data available.

Other adverse effects: No data available.

SECTION 13: Disposal considerations

Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities

SECTION 14: Transport information

United States Transportation of dangerous goods (49 CFR DOT)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

International Maritime Dangerous Goods (IMDG)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

SECTION 15: Regulatory information

United States regulations

Inventory listing (TSCA):

3844-45-9	FD&C Blue No. 1	Listed
9016-45-9	Nonoxynol-9 (Surfonic N-95)	Listed

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8001-54-5	N-Alkyldimethylbenzyl ammonium chloride	Not Listed
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Significant New Use Rule (TSCA Section 5): Not determined.

Export notification under TSCA Section 12(b): Not determined.

SARA Section 302 extremely hazardous substances: Not determined.

SARA Section 313 toxic chemicals:

8001-54-5	N-Alkyldimethylbenzyl ammonium chloride	Not Listed
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CERCLA: Not determined.

RCRA: Not determined.

Section 112(r) of the Clean Air Act (CAA): Not determined.

Massachusetts Right to Know:

8001-54-5	N-Alkyldimethylbenzyl ammonium chloride	Not Listed
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New Jersey Right to Know:

8001-54-5	N-Alkyldimethylbenzyl ammonium chloride	Not Listed
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New York Right to Know:

8001-54-5	N-Alkyldimethylbenzyl ammonium chloride	Not Listed
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Pennsylvania Right to Know:

8001-54-5	N-Alkyldimethylbenzyl ammonium chloride	Not Listed
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California Proposition 65: None of the ingredients are listed.

SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal 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, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

Initial preparation date: 11.22.2017

End of Safety Data Sheet