

# SAFETY DATA SHEET

Issuing Date 14-Sep-2015

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Revision Number 2



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## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

Product Name John Frieda Precision Foam Colour Developer 5 (5055800031)

### Other means of identification

Synonyms None

### Recommended use of the chemical and restrictions on use

Recommended Use Hair Colorant, Developer

Uses advised against No information available

### Details of the supplier of the safety data sheet

Supplier Name KAO USA Inc.

Supplier Address 2535 SPRING GROVE AVE  
CINCINNATI  
OHIO  
45214-1773  
US

Emergency telephone number 800.742.8798 (Drug & Poison Info Center)  
800.424.9300 (Chemtrec)

## 2. HAZARDS IDENTIFICATION

### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Serious eye damage/eye irritation

Category 2



**GHS Label elements, including precautionary statements****Emergency Overview**

|                                                                                   |                |                       |                       |
|-----------------------------------------------------------------------------------|----------------|-----------------------|-----------------------|
| <b>Signal word</b>                                                                | <b>Warning</b> |                       |                       |
| <b>Hazard Statements</b>                                                          |                |                       |                       |
| Causes serious eye irritation                                                     |                |                       |                       |
|  |                |                       |                       |
| <b>Appearance</b>                                                                 | Milky white    | <b>Physical state</b> | Viscous liquid Liquid |
|                                                                                   |                | <b>Odor</b>           | Pleasant              |

**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
 Wear protective gloves/protective clothing/eye protection/face protection  
 Wear eye/face protection

**Precautionary Statements - Response****Eyes**

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**

None

**Precautionary Statements - Disposal**

None

**Hazards not otherwise classified (HNOC)**

Not applicable

**Unknown Toxicity**

0.9 % of the mixture consists of ingredient(s) of unknown toxicity

**Other information**

Harmful to aquatic life with long lasting effects

**Interactions with Other Chemicals**

No information available.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name        | CAS No    | Weight-% | Trade Secret |
|----------------------|-----------|----------|--------------|
| Hydrogen peroxide    | 7722-84-1 | 3 - 7    | *            |
| Ceteth-2             | 9004-95-9 | 0.1 - 1  | *            |
| Myristyl alcohol     | 112-72-1  | 0.1 - 1  | *            |
| Cetrimonium chloride | 112-02-7  | 0.1 - 1  | *            |

\*The exact percentage (concentration) of composition has been withheld as a trade secret

### 4. FIRST AID MEASURES

#### First aid measures

|                     |                                                                                                                                                                                                                                                                                     |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye contact</b>  | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists. |
| <b>Skin contact</b> | Wash with soap and water.                                                                                                                                                                                                                                                           |
| <b>Inhalation</b>   | Remove to fresh air.                                                                                                                                                                                                                                                                |
| <b>Ingestion</b>    | Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.                                                                                                                                 |

#### Most important symptoms and effects, both acute and delayed

|                                            |                    |
|--------------------------------------------|--------------------|
| <b>Most Important Symptoms and Effects</b> | Burning sensation. |
|--------------------------------------------|--------------------|

#### Indication of any immediate medical attention and special treatment needed

|                           |                        |
|---------------------------|------------------------|
| <b>Notes to Physician</b> | Treat symptomatically. |
|---------------------------|------------------------|

## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### Unsuitable extinguishing media

CAUTION: Use of water spray when fighting fire may be inefficient.

### Specific hazards arising from the chemical

No information available.

#### Uniform Fire Code

Irritant: Liquid

### Explosion Data

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

### 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

Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

#### Other Information

Refer to protective measures listed in Sections 7 and 8.

### Environmental precautions

#### Environmental precautions

Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains.

### Methods and material for containment and cleaning up

#### Methods for containment

Prevent further leakage or spillage if safe to do so.

#### Methods for cleaning up

Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

#### Handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Use only with adequate ventilation and in closed systems. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

### Conditions for safe storage, including any incompatibilities

#### Storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Store locked up. Keep out of the reach of children. Store away from other materials.

#### Incompatible Products

Acids. Bases. Oxidizing agent.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Guidelines

| Chemical Name                  | ACGIH TLV  | OSHA PEL                                                                                                 | NIOSH IDLH                                               |
|--------------------------------|------------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| Hydrogen peroxide<br>7722-84-1 | TWA: 1 ppm | TWA: 1 ppm<br>TWA: 1.4 mg/m <sup>3</sup><br>(vacated) TWA: 1 ppm<br>(vacated) TWA: 1.4 mg/m <sup>3</sup> | IDLH: 75 ppm<br>TWA: 1 ppm<br>TWA: 1.4 mg/m <sup>3</sup> |

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits NIOSH IDLH Immediately Dangerous to Life or Health

### Appropriate engineering controls

#### Engineering Measures

Showers  
Eyewash stations  
Ventilation systems

### Individual protection measures, such as personal protective equipment

#### Eye/face protection

None required for consumer use. If splashes are likely to occur: Tight sealing safety goggles.

#### Skin and body protection

None required for consumer use. If there is a risk of contact: Wear protective gloves and protective clothing.

#### Respiratory protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

#### Hygiene Measures

Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Contaminated work clothing should not be allowed out of the workplace.

Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. For environmental protection, remove and wash all contaminated protective equipment before re-use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical and Chemical Properties

|                |                          |                |                          |
|----------------|--------------------------|----------------|--------------------------|
| Physical state | Viscous liquid, Liquid   | Odor           | Pleasant                 |
| Appearance     | Milky white              | Odor Threshold | No information available |
| Color          | No information available |                |                          |

| <u>Property</u>                        | <u>Values</u>     | <u>Remarks</u> | <u>Method</u> |
|----------------------------------------|-------------------|----------------|---------------|
| pH                                     | 7                 | None known     |               |
| Melting / freezing point               | No data available | None known     |               |
| Boiling point / boiling range          | No data available | None known     |               |
| Flash Point                            | 94 C / 201 F      | None known     |               |
| Evaporation Rate                       | No data available | None known     |               |
| Flammability (solid, gas)              | No data available | None known     |               |
| Flammability Limit in Air              |                   |                |               |
| Upper flammability limit               | No data available |                |               |
| Lower flammability limit               | No data available |                |               |
| Vapor pressure                         | No data available | None known     |               |
| Vapor density                          | No data available | None known     |               |
| Specific Gravity                       | 1                 | None known     |               |
| Water Solubility                       | Soluble in water  | None known     |               |
| Solubility in other solvents           | No data available | None known     |               |
| Partition coefficient: n-octanol/water | No data available | None known     |               |
| Autoignition temperature               | No data available | None known     |               |
| Decomposition temperature              | No data available | None known     |               |
| Kinematic viscosity                    | No data available | None known     |               |
| Dynamic viscosity                      | No data available | None known     |               |
| Explosive properties                   | No data available |                |               |
| Oxidizing properties                   | No data available |                |               |

### Other Information

|                            |                   |
|----------------------------|-------------------|
| Softening Point            | No data available |
| VOC Content (%)            | No data available |
| Particle Size              | No data available |
| Particle Size Distribution |                   |

## 10. STABILITY AND REACTIVITY

### Reactivity

No data available.

### Chemical stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### Conditions to avoid

Exposure to air or moisture over prolonged periods.

### Incompatible materials

Acids. Bases. Oxidizing agent.

### Hazardous Decomposition Products

None known based on information supplied.



## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

|                     |                                                                                                                                              |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation</b>   | Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.                                 |
| <b>Eye contact</b>  | Specific test data for the substance or mixture is not available. (based on components). Causes serious eye irritation.                      |
| <b>Skin contact</b> | Specific test data for the substance or mixture is not available. (based on components). May cause irritation.                               |
| <b>Ingestion</b>    | Specific test data for the substance or mixture is not available. (based on components). Ingestion may cause irritation to mucous membranes. |

#### Component Information

| Chemical Name                  | Oral LD50            | Dermal LD50                                  | Inhalation LC50                  |
|--------------------------------|----------------------|----------------------------------------------|----------------------------------|
| Hydrogen peroxide<br>7722-84-1 | = 801 mg/kg ( Rat )  | = 2000 mg/kg ( Rabbit ) = 4060 mg/kg ( Rat ) | = 2 g/m <sup>3</sup> ( Rat ) 4 h |
| Myristyl alcohol<br>112-72-1   | > 5000 mg/kg ( Rat ) | > 5 g/kg ( Rabbit )                          | -                                |

### Information on toxicological effects

**Symptoms** May cause redness and tearing of the eyes. Burning. Erythema (skin redness).

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Sensitization** No information available.

**Mutagenic Effects** No information available.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical Name                  | ACGIH | IARC    | NTP | OSHA |
|--------------------------------|-------|---------|-----|------|
| Hydrogen peroxide<br>7722-84-1 | A3    | Group 3 |     |      |

**ACGIH (American Conference of Governmental Industrial Hygienists)**

A3 - Animal Carcinogen

**IARC (International Agency for Research on Cancer)**

Group 3 - Not Classifiable as to Carcinogenicity in Humans

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Chronic Toxicity** Carcinogenic potential is unknown.

**Target Organ Effects**

Eyes. Respiratory system. Skin. Gastrointestinal tract (GI). Blood. Lungs.

**Aspiration Hazard**

No information available.

**Numerical measures of toxicity Product Information**

The following values are calculated based on chapter 3.1 of the GHS document

**ATEmix (oral)**

14,040.00 mg/kg

**ATEmix (dermal)**

28,416.00 mg/kg (ATE)

**ATEmix (inhalation-gas)**

78,878.00 ppm (4 hr)

**ATEmix (inhalation-dust/mist)**

35.00 mg/l

**ATEmix (inhalation-vapor)**

193.00 ATEmix

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

No information available.

**Persistence and Degradability**

No information available.

**Bioaccumulation**

No information available.

**Other adverse effects**

No information available.



### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

#### **Disposal methods**

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

#### **Contaminated Packaging**

Dispose of contents/containers in accordance with local regulations.

#### **California Hazardous Waste Codes 331**

This product contains one or more substances that are listed with the State of California as a hazardous waste.

| Chemical Name                  | California Hazardous Waste                  |
|--------------------------------|---------------------------------------------|
| Hydrogen peroxide<br>7722-84-1 | Toxic<br>Corrosive<br>Ignitable<br>Reactive |

### 14. TRANSPORT INFORMATION

#### DOT

Proper Shipping Name  
Hazard Class

NOT REGULATED  
NON REGULATED  
N/A

#### TDG

Not regulated

#### MEX

Not regulated

#### ICAO

Not regulated

#### IATA

Proper Shipping Name  
Hazard Class

Not regulated  
NON REGULATED  
N/A

#### IMDG/IMO

Hazard Class

Not regulated  
N/A

#### RID

Not regulated

#### ADR

Not regulated

#### ADN

Not regulated

### 15. REGULATORY INFORMATION

#### International Inventories

TSCA

Complies



DSL

All components are listed either on the DSL or NDSL.

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

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

**US Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**SARA 311/312 Hazard Categories**

|                                   |     |
|-----------------------------------|-----|
| Acute Health Hazard               | Yes |
| Chronic Health Hazard             | No  |
| Fire Hazard                       | No  |
| Sudden release of pressure hazard | No  |
| Reactive Hazard                   | No  |

**CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

| Chemical Name                  | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|--------------------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Hydrogen peroxide<br>7722-84-1 | X                           | X                      | X                         | X                          |

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

| Chemical Name                  | Hazardous Substances RQs | Extremely Hazardous Substances RQs | RQ |
|--------------------------------|--------------------------|------------------------------------|----|
| Hydrogen peroxide<br>7722-84-1 |                          | 1000 lb                            |    |

**US State Regulations****California Proposition 65**

This product contains the following Proposition 65 chemicals.

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

| Chemical Name                  | New Jersey | Massachusetts | Pennsylvania | Rhode Island | Illinois |
|--------------------------------|------------|---------------|--------------|--------------|----------|
| Hydrogen peroxide<br>7722-84-1 | X          | X             | X            | X            |          |

**International Regulations****Mexico****National occupational exposure limits**

| Component                                | Carcinogen Status | Exposure Limits                                                                                                  |
|------------------------------------------|-------------------|------------------------------------------------------------------------------------------------------------------|
| Hydrogen peroxide<br>7722-84-1 ( 3 - 7 ) | A3                | Mexico: TWA 1 ppm<br>Mexico: TWA 1.5 mg/m <sup>3</sup><br>Mexico: STEL 2 ppm<br>Mexico: STEL 3 mg/m <sup>3</sup> |

Mexico - Occupational Exposure Limits - Carcinogens



## Canada

## WHMIS Hazard Class

Not determined

**16. OTHER INFORMATION**

|             |                       |          |                     |          |                        |          |                                      |          |
|-------------|-----------------------|----------|---------------------|----------|------------------------|----------|--------------------------------------|----------|
| <b>NFPA</b> | <b>Health Hazards</b> | <b>2</b> | <b>Flammability</b> | <b>1</b> | <b>Instability</b>     | <b>0</b> | <b>Physical and Chemical Hazards</b> | <b>-</b> |
| <b>HMIS</b> | <b>Health Hazards</b> | <b>2</b> | <b>Flammability</b> | <b>1</b> | <b>Physical Hazard</b> | <b>0</b> | <b>Personal Protection</b>           | <b>X</b> |

**Prepared By** Product Stewardship  
23 British American Blvd.  
Latham, NY 12110  
1-800-572-6501

**Issuing Date** 14-Sep-2015  
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**Revision Note** No information available

**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

**End of Safety Data Sheet**

# SAFETY DATA SHEET

Issuing Date 19-Oct-2023

Revision Date 26-Oct-2017

Revision Number 1

NGHS / English



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## 1. IDENTIFICATION

### Product identifier

**Product Name** John Frieda Precision Foam Colour - Colourant 4BG (5052601031)

### Other means of identification

**Product Code(s)** 1085656

### Recommended use of the chemical and restrictions on use

**Recommended Use** Hair Color - Permanent or Semi-Permanent

**Restrictions on use** No information available

### Details of the supplier of the safety data sheet

**Supplier Identification** KAO USA Inc.

**Address** 2535 SPRING GROVE AVE  
CINCINNATI  
OHIO  
45214-1773  
US

**Telephone** Phone:1-513-455-5300

**E-mail** ami.beyer@kao.com

### Emergency telephone number

**Company Emergency Phone Number** 800.424.9300 (Chemtrec); 800.742.8798 (Drug & Poison Info Center)

## 2. HAZARDS IDENTIFICATION

### Classification

|                                                  |            |
|--------------------------------------------------|------------|
| Skin corrosion/irritation                        | Category 2 |
| Serious eye damage/eye irritation                | Category 1 |
| Skin sensitization                               | Category 1 |
| Specific target organ toxicity (single exposure) | Category 1 |



|                                                    |            |
|----------------------------------------------------|------------|
| Specific target organ toxicity (repeated exposure) | Category 1 |
| Flammable liquids                                  | Category 3 |

**Appearance** Yellow

**Physical state** Liquid

**Odor** Pleasant

**GHS Label elements, including precautionary statements**

**Danger**

**Hazard statements**

Causes skin irritation

Causes serious eye damage

May cause an allergic skin reaction

Causes damage to organs

Causes damage to organs through prolonged or repeated exposure

Flammable liquid and vapor



**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling

Contaminated work clothing must not be allowed out of the workplace

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

Do not eat, drink or smoke when using this product

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

Keep container tightly closed

Ground/bond container and receiving equipment

Use explosion-proof electrical/ ventilating/ lighting/ equipment

Use only non-sparking tools

Take precautionary measures against static discharge

Wear protective gloves/eye protection/face protection

**Precautionary Statements - Response**

Specific treatment (see supplemental first aid instructions on this label)

IF exposed: Call a POISON CENTER or doctor

**Eyes**

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

**Skin**

If skin irritation or rash occurs: Get medical advice/attention

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

Wash contaminated clothing before reuse

**Fire**

In case of fire: Use CO<sub>2</sub>, dry chemical, or foam to extinguish

**Precautionary Statements - Storage**

Store locked up

Store in a well-ventilated place. Keep cool

### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

### Other information

May be harmful if swallowed. Toxic to aquatic life with long lasting effects.

**Unknown acute toxicity** 16.437 % of the mixture consists of ingredient(s) of unknown toxicity  
 16.437 % of the mixture consists of ingredient(s) of unknown acute oral toxicity  
 16.437 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity  
 16.437 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)  
 16.437 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)  
 16.437 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Substance

Not applicable.

### Mixture

| Chemical name                                                 | CAS No     | Weight-% | Hazardous Material<br>Information Review Act<br>registry number (HMIRA<br>registry #) | Date HMIRA filed and<br>date exemption granted<br>(if applicable) |
|---------------------------------------------------------------|------------|----------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Ethanol                                                       | 64-17-5    | 10       | -                                                                                     | -                                                                 |
| Disodium cocoyl<br>glutamate                                  | 68187-30-4 | 6.66     | -                                                                                     | -                                                                 |
| Lauryl polyethylene<br>glycol ether                           | 9002-92-0  | 6        | -                                                                                     | -                                                                 |
| Ammonium bicarbonate                                          | 1066-33-7  | 4.3      | -                                                                                     | -                                                                 |
| Propylene Glycol                                              | 57-55-6    | 4        | -                                                                                     | -                                                                 |
| Alcohols,<br>C11-15-secondary,<br>ethoxylated                 | 68131-40-8 | 4        | -                                                                                     | -                                                                 |
| Ammonium hydroxide                                            | 1336-21-6  | 2.912    | -                                                                                     | -                                                                 |
| Decyl glucoside                                               | 54549-25-6 | 2.002    | -                                                                                     | -                                                                 |
| Toluene-2,5-diamine<br>sulfate                                | 615-50-9   | 1.672    | -                                                                                     | -                                                                 |
| Ethanolamine                                                  | 141-43-5   | 1.6      | -                                                                                     | -                                                                 |
| Polyquaternium-22                                             | 53694-17-0 | 1.11     | -                                                                                     | -                                                                 |
| Oxacyclohexadecan-2-on<br>e                                   | 106-02-5   | 1        | -                                                                                     | -                                                                 |
| Methyl<br>3-oxo-2-pentylcyclopenta<br>neacetate               | 24851-98-7 | 1        | -                                                                                     | -                                                                 |
| Cis-2-tert-butylcyclohexyl<br>acetate                         | 20298-69-5 | 1        | -                                                                                     | -                                                                 |
| Benzoic acid, 2-hydroxy-,<br>3-hexenyl ester, (Z)-            | 65405-77-8 | 1        | -                                                                                     | -                                                                 |
| 3-Octanol, 3,7-dimethyl-                                      | 78-69-3    | 1        | -                                                                                     | -                                                                 |
| 2H-Pyran-4-ol,<br>tetrahydro-4-methyl-2-(2-<br>methylpropyl)- | 63500-71-0 | 1        | -                                                                                     | -                                                                 |
| 2,6-dimethyloct-7-en-2-ol                                     | 18479-58-8 | 1        | -                                                                                     | -                                                                 |

|                                                  |           |       |   |   |
|--------------------------------------------------|-----------|-------|---|---|
| 1,3-Benzodioxole-5-prop<br>anal, .alpha.-methyl- | 1205-17-0 | 1     | - | - |
| Resorcinol                                       | 108-46-3  | 0.506 | - | - |
| Myristyl alcohol                                 | 112-72-1  | 0.2   | - | - |

#### 4. FIRST AID MEASURES

##### Description of first aid measures

|                                           |                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General advice</b>                     | Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.                                                                                                                                                                                                              |
| <b>Inhalation</b>                         | Remove to fresh air. Get medical attention immediately if symptoms occur. IF exposed or concerned: Get medical advice/attention.                                                                                                                                                                               |
| <b>Eye contact</b>                        | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Get immediate medical advice/attention. Remove contact lenses, if present and easy to do. Continue rinsing.                                               |
| <b>Skin contact</b>                       | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. May cause an allergic skin reaction. If symptoms persist, call a physician.                                                                                                                              |
| <b>Ingestion</b>                          | Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.                                                                                                                                                  |
| <b>Self-protection of the first aider</b> | Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. |

##### Most important symptoms and effects, both acute and delayed

|                 |                                            |
|-----------------|--------------------------------------------|
| <b>Symptoms</b> | Burning sensation. Itching. Rashes. Hives. |
|-----------------|--------------------------------------------|

##### Indication of any immediate medical attention and special treatment needed

|                           |                                                                        |
|---------------------------|------------------------------------------------------------------------|
| <b>Note to physicians</b> | May cause sensitization in susceptible persons. Treat symptomatically. |
|---------------------------|------------------------------------------------------------------------|

#### 5. FIRE-FIGHTING MEASURES

|                                                   |                                                                                                                                                                                                                                                                                                                                               |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Suitable Extinguishing Media</b>               | Dry chemical. Carbon dioxide (CO <sub>2</sub> ). Water spray. Alcohol resistant foam.                                                                                                                                                                                                                                                         |
| <b>Large Fire</b>                                 | CAUTION: Use of water spray when fighting fire may be inefficient.                                                                                                                                                                                                                                                                            |
| <b>Unsuitable extinguishing media</b>             | Do not scatter spilled material with high pressure water streams.                                                                                                                                                                                                                                                                             |
| <b>Specific hazards arising from the chemical</b> | Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Product is or contains a sensitizer. May cause sensitization by skin contact. |
| <b>Hazardous Combustion Products</b>              | Carbon oxides.                                                                                                                                                                                                                                                                                                                                |
| <b>Explosion Data</b>                             |                                                                                                                                                                                                                                                                                                                                               |
| <b>Sensitivity to Mechanical Impact</b>           | None.                                                                                                                                                                                                                                                                                                                                         |
| <b>Sensitivity to Static Discharge</b>            | Yes.                                                                                                                                                                                                                                                                                                                                          |



**Special protective equipment for fire-fighters**

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal precautions**

Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material.

**Other Information**

Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

### Methods and material for containment and cleaning up

**Methods for containment**

Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

**Methods for cleaning up**

Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on safe handling**

Use personal protection equipment. Avoid breathing vapors or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. In case of insufficient ventilation, wear suitable respiratory equipment. Take off contaminated clothing and wash before reuse.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions**

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Store locked up. Keep out of the reach of children.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION





## Control parameters

### Exposure Limits

| Chemical name               | ACGIH TLV                                                      | OSHA PEL                                                                                                                          | NIOSH IDLH                                                                  |                                                                |
|-----------------------------|----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------|
| Ethanol<br>64-17-5          | STEL: 1000 ppm                                                 | TWA: 1000 ppm<br>TWA: 1900 mg/m³<br>(vacated) TWA: 1000 ppm<br>(vacated) TWA: 1900 mg/m³                                          | IDLH: 3300 ppm 10% LEL<br>TWA: 1000 ppm<br>TWA: 1900 mg/m³                  |                                                                |
| Ethanolamine<br>141-43-5    | STEL: 6 ppm<br>TWA: 3 ppm                                      | TWA: 3 ppm<br>TWA: 6 mg/m³<br>(vacated) TWA: 3 ppm<br>(vacated) TWA: 8 mg/m³<br>(vacated) STEL: 6 ppm<br>(vacated) STEL: 15 mg/m³ | IDLH: 30 ppm<br>TWA: 3 ppm<br>TWA: 8 mg/m³<br>STEL: 6 ppm<br>STEL: 15 mg/m³ |                                                                |
| Resorcinol<br>108-46-3      | STEL: 20 ppm<br>TWA: 10 ppm                                    | (vacated) TWA: 10 ppm<br>(vacated) TWA: 45 mg/m³<br>(vacated) STEL: 20 ppm<br>(vacated) STEL: 90 mg/m³                            | TWA: 10 ppm<br>TWA: 45 mg/m³<br>STEL: 20 ppm<br>STEL: 90 mg/m³              |                                                                |
| Chemical name               | Alberta                                                        | British Columbia                                                                                                                  | Ontario TWAEV                                                               | Quebec                                                         |
| Ethanol<br>64-17-5          | TWA: 1000 ppm<br>TWA: 1880 mg/m³                               | STEL: 1000 ppm                                                                                                                    | STEL: 1000 ppm                                                              | STEL: 1000 ppm                                                 |
| Propylene Glycol<br>57-55-6 |                                                                |                                                                                                                                   | TWA: 10 mg/m³<br>TWA: 50 ppm<br>TWA: 155 mg/m³                              |                                                                |
| Ethanolamine<br>141-43-5    | TWA: 3 ppm<br>TWA: 7.5 mg/m³<br>STEL: 6 ppm<br>STEL: 15 mg/m³  | TWA: 3 ppm<br>STEL: 6 ppm                                                                                                         | TWA: 3 ppm<br>STEL: 6 ppm                                                   | TWA: 3 ppm<br>TWA: 7.5 mg/m³<br>STEL: 6 ppm<br>STEL: 15 mg/m³  |
| Resorcinol<br>108-46-3      | TWA: 10 ppm<br>TWA: 45 mg/m³<br>STEL: 20 ppm<br>STEL: 90 mg/m³ | TWA: 10 ppm<br>STEL: 20 ppm                                                                                                       | TWA: 10 ppm<br>STEL: 20 ppm                                                 | TWA: 10 ppm<br>TWA: 45 mg/m³<br>STEL: 20 ppm<br>STEL: 90 mg/m³ |

### Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992). See section 15 for national exposure control parameters.

## Appropriate engineering controls

### Engineering controls

Showers  
Eyewash stations  
Ventilation systems.

## Individual protection measures, such as personal protective equipment

### Eye/face protection

Tight sealing safety goggles.

### Hand protection

Wear suitable gloves. Impervious gloves.

### Skin and body protection

Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Antistatic boots.

### Respiratory protection

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

### General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of

the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|                |                          |
|----------------|--------------------------|
| Physical state | Liquid                   |
| Appearance     | Yellow                   |
| Odor           | Pleasant                 |
| Color          | No information available |
| Odor Threshold | No data available        |

| Property                               | Values             | Remarks Method |
|----------------------------------------|--------------------|----------------|
| pH                                     | 8                  |                |
| Melting / freezing point               | No data available  | None known     |
| Boiling point / boiling range          | No data available  | None known     |
| Flash Point                            | > 37 C / > 98 F    |                |
| Evaporation Rate                       | No data available  | None known     |
| Flammability (solid, gas)              | No data available  | None known     |
| Flammability Limit in Air              |                    |                |
| Upper flammability limit               | No data available  |                |
| Lower flammability limit               | No data available  |                |
| Vapor pressure                         | No data available  | None known     |
| Vapor density                          | No data available  | None known     |
| Relative density                       | 1                  |                |
| Water Solubility                       | Completely soluble |                |
| Solubility(ies)                        | No data available  | None known     |
| Partition coefficient: n-octanol/water | No data available  |                |
| Autoignition temperature               | No data available  | None known     |
| Decomposition temperature              | No data available  | None known     |
| Kinematic viscosity                    | No data available  | None known     |
| Dynamic viscosity                      | No data available  | None known     |

### Other Information

|                            |                          |
|----------------------------|--------------------------|
| Explosive properties       | No information available |
| Oxidizing properties       | No information available |
| Softening Point            | No information available |
| Molecular Weight           | No information available |
| VOC Content (%)            | No information available |
| Liquid Density             | No information available |
| Bulk Density               | No information available |
| Particle Size              | No information available |
| Particle Size Distribution | No information available |

## 10. STABILITY AND REACTIVITY

|                                    |                                          |
|------------------------------------|------------------------------------------|
| Reactivity                         | No information available.                |
| Chemical stability                 | Stable under normal conditions.          |
| Possibility of Hazardous Reactions | None under normal processing.            |
| Hazardous Polymerization           | Hazardous polymerization does not occur. |
| Conditions to avoid                | Heat, flames and sparks.                 |

**Incompatible materials** Strong acids. Strong bases. Strong oxidizing agents.

**Hazardous Decomposition Products** Carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

|                     |                                                                                                                                                                                                                                                     |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation</b>   | Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.                                                                                                                                        |
| <b>Eye contact</b>  | Specific test data for the substance or mixture is not available. Causes serious eye damage. (based on components). Severely irritating to eyes. May cause burns. May cause irreversible damage to eyes.                                            |
| <b>Skin contact</b> | Specific test data for the substance or mixture is not available. Causes skin irritation. May cause sensitization by skin contact. (based on components). Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. |
| <b>Ingestion</b>    | Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May be harmful if swallowed.                                                                      |

### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** Redness. Burning. May cause blindness. Itching. Rashes. Hives. May cause redness and tearing of the eyes.

### Numerical measures of toxicity

#### Acute toxicity

The following values are calculated based on chapter 3.1 of the GHS document

|                                      |                      |
|--------------------------------------|----------------------|
| <b>ATEmix (oral)</b>                 | 2,071.70 mg/kg       |
| <b>ATEmix (dermal)</b>               | 21,516.70 mg/kg mg/L |
| <b>ATEmix (inhalation-dust/mist)</b> | 36.90 mg/L           |
| <b>ATEmix (inhalation-vapor)</b>     | 236.70 mg/L          |

**Unknown acute toxicity** 16.437 % of the mixture consists of ingredient(s) of unknown toxicity

- 16.437 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 16.437 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 16.437 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
- 16.437 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- 16.437 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

#### Product Information

#### Component Information

| Chemical name                    | Oral LD50            | Dermal LD50              | Inhalation LC50                                      |
|----------------------------------|----------------------|--------------------------|------------------------------------------------------|
| Ethanol                          | = 7060 mg/kg ( Rat ) | -                        | = 116.9 mg/L ( Rat ) 4 h<br>= 133.8 mg/L ( Rat ) 4 h |
| Disodium cocoyl glutamate        | -                    | > 5000 mg/kg ( Rat )     | -                                                    |
| Lauryl polyethylene glycol ether | = 1 g/kg ( Rat )     | > 2000 mg/kg ( Rat )     | -                                                    |
| Ammonium bicarbonate             | = 1576 mg/kg ( Rat ) | > 5000 mg/kg ( Rabbit )  | -                                                    |
| Propylene Glycol                 | = 20 g/kg ( Rat )    | = 20800 mg/kg ( Rabbit ) | -                                                    |
| Alcohols, C11-15-secondary,      | = 2100 mg/kg ( Rat ) | > 2000 mg/kg ( Rat )     | -                                                    |

|                                                               |                      |                         |                         |
|---------------------------------------------------------------|----------------------|-------------------------|-------------------------|
| ethoxylated                                                   |                      |                         |                         |
| Ammonium hydroxide                                            | = 350 mg/kg ( Rat )  | -                       | -                       |
| Toluene-2,5-diamine sulfate                                   | = 98 mg/kg ( Rat )   | -                       | -                       |
| Ethanolamine                                                  | = 1720 mg/kg ( Rat ) | = 1000 mg/kg ( Rabbit ) | > 1.3 mg/L ( Rat ) 6 h  |
| Oxacyclohexadecan-2-one                                       | > 5 g/kg ( Rat )     | -                       | -                       |
| Methyl<br>3-oxo-2-pentylcyclopentaneacetate                   | > 5 g/kg ( Rat )     | > 5000 mg/kg ( Rabbit ) | > 4.93 mg/L ( Rat ) 4 h |
| Cis-2-tert-butylcyclohexyl<br>acetate                         | -                    | > 5000 mg/kg ( Rabbit ) | -                       |
| Benzoic acid, 2-hydroxy-,<br>3-hexenyl ester, (Z)-            | = 5 g/kg ( Rat )     | > 2000 mg/kg ( Rabbit ) | -                       |
| 3-Octanol, 3,7-dimethyl-                                      | > 5 g/kg ( Rat )     | > 5000 mg/kg ( Rabbit ) | -                       |
| 2H-Pyran-4-ol,<br>tetrahydro-4-methyl-2-(2-methyl<br>propyl)- | -                    | > 2000 mg/kg ( Rabbit ) | -                       |
| 2,6-dimethyloct-7-en-2-ol                                     | = 3600 mg/kg ( Rat ) | > 5 g/kg ( Rabbit )     | -                       |
| 1,3-Benzodioxole-5-propanal,<br>.alpha.-methyl-               | -                    | > 2000 mg/kg ( Rabbit ) | -                       |
| Resorcinol                                                    | = 202 mg/kg ( Rat )  | = 3360 mg/kg ( Rabbit ) | > 7.8 mg/L ( rat ) 8 h  |
| Myristyl alcohol                                              | > 20 g/kg ( Rat )    | = 8 g/kg ( Rabbit )     | > 1.5 mg/L ( Rat ) 4 h  |

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

|                                          |                                                                                                          |
|------------------------------------------|----------------------------------------------------------------------------------------------------------|
| <b>Skin corrosion/irritation</b>         | Classification based on data available for ingredients. Irritating to skin.                              |
| <b>Serious eye damage/eye irritation</b> | Classification based on data available for ingredients. Causes burns. Risk of serious damage to eyes.    |
| <b>Respiratory or skin sensitization</b> | May cause sensitization by skin contact.                                                                 |
| <b>Germ cell mutagenicity</b>            | No information available.                                                                                |
| <b>Carcinogenicity</b>                   | Ethanol has been shown to be carcinogenic in long-term studies only when consumed as alcoholic beverage. |

The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical name          | ACGIH | IARC    | NTP   | OSHA |
|------------------------|-------|---------|-------|------|
| Ethanol<br>64-17-5     | A3    | Group 1 | Known | X    |
| Resorcinol<br>108-46-3 | -     | Group 3 | -     | -    |

**Legend**

**ACGIH (American Conference of Governmental Industrial Hygienists)**

A3 - Animal Carcinogen

**IARC (International Agency for Research on Cancer)**

Group 1 - Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

**NTP (National Toxicology Program)**

Known - Known Carcinogen

**OSHA (Occupational Safety and Health Administration of the US Department of Labor)**

X - Present

|                              |                           |
|------------------------------|---------------------------|
| <b>Reproductive toxicity</b> | No information available. |
|------------------------------|---------------------------|

|                                 |                                                                                                                                                                                                                                                                                          |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>STOT - single exposure</b>   | Based on the classification criteria of the Globally Harmonized System as adopted in the country or region with which this safety data sheet complies, this product has been determined to cause systemic target organ toxicity from acute exposure. (STOT SE). Causes damage to organs. |
| <b>STOT - repeated exposure</b> | Causes damage to organs through prolonged or repeated exposure.                                                                                                                                                                                                                          |
| <b>Aspiration hazard</b>        | No information available.                                                                                                                                                                                                                                                                |

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** Toxic to aquatic life with long lasting effects.

| Chemical name                                | Algae/aquatic plants                                     | Fish                                                                                                                                                                                                                                       | Toxicity to microorganisms                                               | Crustacea                                                                         |
|----------------------------------------------|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Ethanol                                      | No data available                                        | 96h LC50: 12.0 - 16.0 mL/L (Oncorhynchus mykiss)<br>96h LC50: 13400 - 15100 mg/L (Pimephales promelas)<br>96h LC50: > 100 mg/L (Pimephales promelas)                                                                                       | EC50 = 34634 mg/L 30 min<br>EC50 = 35470 mg/L 5 min                      | 48h LC50: 9268 - 14221 mg/L (Daphnia magna)<br>48h EC50: = 2 mg/L (Daphnia magna) |
| Ammonium bicarbonate                         | No data available                                        | LC50: 16.1 - 18.7 mg/L (96 h ) Oncorhynchus mykiss<br>LC50: 98.3 mg/L (96 h ) Oncorhynchus mykiss                                                                                                                                          | EC50 = 1895 mg/L 16 h                                                    | No data available                                                                 |
| Propylene Glycol                             | 96h EC50: = 19000 mg/L (Pseudokirchneriella subcapitata) | 96h LC50: 41 - 47 mL/L (Oncorhynchus mykiss)<br>96h LC50: = 51400 mg/L (Pimephales promelas)<br>96h LC50: = 51600 mg/L (Oncorhynchus mykiss)<br>96h LC50: = 710 mg/L (Pimephales promelas)                                                 | -                                                                        | 48h EC50: > 1000 mg/L (Daphnia magna)                                             |
| Ammonium hydroxide                           | No data available                                        | 96h LC50: = 8.2 mg/L (Pimephales promelas)                                                                                                                                                                                                 | No data available                                                        | 48h EC50: = 0.66 mg/L (Daphnia pulex)<br>48h EC50: = 0.66 mg/L (water flea)       |
| Ethanolamine                                 | 72h EC50: = 15 mg/L (Desmodesmus subspicatus)            | 96h LC50: 114 - 196 mg/L (Oncorhynchus mykiss)<br>96h LC50: 300 - 1000 mg/L (Lepomis macrochirus)<br>96h LC50: = 227 mg/L (Pimephales promelas)<br>96h LC50: = 3684 mg/L (Brachydanio rerio)<br>96h LC50: > 200 mg/L (Oncorhynchus mykiss) | EC50 = 110 mg/L 17 h<br>EC50 = 12200 mg/L 2 h<br>EC50 = 13.7 mg/L 30 min | 48h EC50: = 65 mg/L (Daphnia magna)                                               |
| Methyl 3-oxo-2-pentylcyclopentanecarboxylate | No data available                                        | 96h LC50: = 19 mg/L (Oryzias latipes)                                                                                                                                                                                                      | No data available                                                        | No data available                                                                 |
| Cis-2-tert-butylcyclohexyl                   | No data available                                        | 96h LC50: = 5.6 mg/L                                                                                                                                                                                                                       | No data available                                                        | No data available                                                                 |

|                          |                                                     |                                                                                                                                                                                                         |                                                                         |                                        |
|--------------------------|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------|
| acetate                  |                                                     | (Danio rerio)                                                                                                                                                                                           |                                                                         |                                        |
| 3-Octanol, 3,7-dimethyl- | No data available                                   | 96h LC50: = 8.9 mg/L<br>(Danio rerio)                                                                                                                                                                   | No data available                                                       | No data available                      |
| Resorcinol               | No data available                                   | 96h LC50: 36 - 100<br>mg/L (Pimephales<br>promelas)<br>96h LC50: = 100 mg/L<br>(Pimephales promelas)<br>96h LC50: = 53.4 mg/L<br>(Pimephales promelas)<br>96h LC50: > 100 mg/L<br>(Oncorhynchus mykiss) | EC50 = 265 mg/L 30 min<br>EC50 = 375 mg/L 5 min<br>EC50 = 543 mg/L 48 h | 48h LC50: = 78 mg/L<br>(Daphnia magna) |
| Myristyl alcohol         | 96h EC50: > 10 mg/L<br>(Desmodesmus<br>subspicatus) | 96h LC50: > 10000 mg/L<br>(Brachydanio rerio)                                                                                                                                                           | EC50 > 1000 mg/L 30<br>min                                              | No data available                      |

**Persistence and Degradability** No information available.

**Bioaccumulation**

#### Component Information

| Chemical name                                          | Partition coefficient |
|--------------------------------------------------------|-----------------------|
| Ethanol                                                | -0.35                 |
| Disodium cocoyl glutamate                              | -4.48                 |
| Lauryl polyethylene glycol ether                       | 1.937                 |
| Ammonium bicarbonate                                   | -2.4                  |
| Propylene Glycol                                       | -1.07                 |
| Toluene-2,5-diamine sulfate                            | 0.74                  |
| Ethanolamine                                           | -2.3                  |
| Oxacyclohexadecan-2-one                                | 5.79                  |
| Methyl 3-oxo-2-pentylcyclopentaneacetate               | 2.93                  |
| Cis-2-tert-butylcyclohexyl acetate                     | 4.8                   |
| Benzoic acid, 2-hydroxy-, 3-hexenyl ester, (Z)-        | 4.8                   |
| 3-Octanol, 3,7-dimethyl-                               | 3.3                   |
| 2H-Pyran-4-ol, tetrahydro-4-methyl-2-(2-methylpropyl)- | 1.65                  |
| 2,6-dimethyloct-7-en-2-ol                              | 3.25                  |
| 1,3-Benzodioxole-5-propanal, .alpha.-methyl-           | 2.4                   |
| Resorcinol                                             | 0.8                   |
| Myristyl alcohol                                       | 5.5                   |

**Mobility** No information available.

**Other adverse effects** No information available.

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

**Waste from residues/unused products**

Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging**

Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

**US EPA Waste Number**

D001



California Waste Codes 331

This product contains one or more substances that are listed with the State of California as a hazardous waste.

| Chemical name                   | California Hazardous Waste |
|---------------------------------|----------------------------|
| Ethanol<br>64-17-5              | Toxic<br>Ignitable         |
| Ammonium hydroxide<br>1336-21-6 | Toxic<br>Corrosive         |

## 14. TRANSPORT INFORMATION

|                      |                                                                         |
|----------------------|-------------------------------------------------------------------------|
| <b>DOT</b>           | NOT REGULATED                                                           |
| Proper Shipping Name | NON-REGULATED                                                           |
| Hazard Class         | N/A                                                                     |
| <b>TDG</b>           | Not applicable                                                          |
| <b>MEX</b>           | Not applicable                                                          |
| <b>ICAO</b>          | Not applicable                                                          |
| <b>IATA</b>          | Not applicable                                                          |
| Proper Shipping Name | NON REGULATED                                                           |
| Hazard Class         | N/A                                                                     |
| <b>IMDG/IMO</b>      | Not applicable                                                          |
| Hazard Class         | N/A                                                                     |
| Marine Pollutant     | Product is a marine pollutant according to the criteria set by IMDG/IMO |
| <b>RID</b>           | Not applicable                                                          |
| <b>ADR</b>           | Not applicable                                                          |
| <b>ADN</b>           | Not applicable                                                          |

## 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

### International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

### International Inventories

|               |                                                   |
|---------------|---------------------------------------------------|
| TSCA          | Contact supplier for inventory compliance status. |
| DSL/NDL       | Contact supplier for inventory compliance status. |
| EINECS/ELINCS | Contact supplier for inventory compliance status. |
| ENCS          | Contact supplier for inventory compliance status. |



KECL Contact supplier for inventory compliance status.  
PICCS Contact supplier for inventory compliance status.  
AICS Contact supplier for inventory compliance status.

#### Legend

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDL** - 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  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

#### US Federal Regulations

##### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| Chemical name                    | CAS No    | Weight-% | SARA 313 - Threshold Values % |
|----------------------------------|-----------|----------|-------------------------------|
| Ammonium bicarbonate - 1066-33-7 | 1066-33-7 | 4.3      | 1.0                           |
| Ammonium hydroxide - 1336-21-6   | 1336-21-6 | 2.912    | 1.0                           |

##### **SARA 311/312 Hazard Categories**

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications. Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.

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

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

| Chemical name                     | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|-----------------------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Ammonium bicarbonate<br>1066-33-7 | 5000 lb                     |                        |                           | X                          |
| Ammonium hydroxide<br>1336-21-6   | 1000 lb                     |                        |                           | X                          |
| Resorcinol<br>108-46-3            | 5000 lb                     |                        |                           | X                          |

##### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

| Chemical name                     | Hazardous Substances RQs | Extremely Hazardous Substances RQs | RQ                                         |
|-----------------------------------|--------------------------|------------------------------------|--------------------------------------------|
| Ammonium bicarbonate<br>1066-33-7 | 5000 lb                  |                                    | RQ 5000 lb final RQ<br>RQ 2270 kg final RQ |
| Ammonium hydroxide<br>1336-21-6   | 1000 lb                  |                                    | RQ 1000 lb final RQ<br>RQ 454 kg final RQ  |
| Resorcinol<br>108-46-3            | 5000 lb                  |                                    | RQ 5000 lb final RQ<br>RQ 2270 kg final RQ |

#### US State Regulations





### California Proposition 65

This product contains the following Proposition 65 chemicals. Ethyl alcohol is only a considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage.

| Chemical name     | California Proposition 65   |
|-------------------|-----------------------------|
| Ethanol - 64-17-5 | Carcinogen<br>Developmental |

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

This product may contain substances regulated by state right-to-know regulations.

| Chemical name                     | New Jersey | Massachusetts | Pennsylvania | Rhode Island | Illinois |
|-----------------------------------|------------|---------------|--------------|--------------|----------|
| Ethanol<br>64-17-5                | X          | X             | X            |              | X        |
| Ammonium bicarbonate<br>1066-33-7 | X          | X             | X            | X            |          |
| Propylene Glycol<br>57-55-6       | X          |               | X            |              |          |
| Ammonium hydroxide<br>1336-21-6   | X          | X             | X            | X            |          |
| Ethanolamine<br>141-43-5          | X          | X             | X            |              | X        |
| Resorcinol<br>108-46-3            | X          | X             | X            | X            |          |

## 16. OTHER INFORMATION

|                                                                  |                           |                       |                           |                                         |
|------------------------------------------------------------------|---------------------------|-----------------------|---------------------------|-----------------------------------------|
| <b>NFPA</b>                                                      | <b>Health hazards</b> 3   | <b>Flammability</b> 3 | <b>Instability</b> 0      | <b>Physical and Chemical Properties</b> |
| <b>HMIS</b>                                                      | <b>Health hazards</b> 3 * | <b>Flammability</b> 3 | <b>Physical hazards</b> 0 | <b>Personal Protection</b> X            |
| <i>Chronic Hazard Star Legend      * = Chronic Health Hazard</i> |                           |                       |                           |                                         |

**Prepared By** Product Stewardship  
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### Disclaimer

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**End of Safety Data Sheet**

# SAFETY DATA SHEET

Issuing Date 21-Jan-2016

Revision Date 21-Jan-2016

Revision Number 3



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## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

Product Name John Frieda Precision Foam Colour After Colour Conditioner (5042401031)

### Other means of identification

Synonyms None

### Recommended use of the chemical and restrictions on use

Recommended Use Conditioner

Uses advised against No information available

### Details of the supplier of the safety data sheet

Supplier Name KAO USA Inc.

Supplier Address 2535 SPRING GROVE AVE  
CINCINNATI  
OHIO  
45214-1773  
US

Supplier Phone Number Phone:1-513-455-5300

### Emergency telephone number

Company Emergency Phone Number 800.424.9300 (Chemtrec); 800.742.8798 (Drug & Poison Info Center)

## 2. HAZARDS IDENTIFICATION

### Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

### GHS Label elements, including precautionary statements



### Emergency Overview

The product contains no substances which at their given concentration, are considered to be hazardous to health.

**Appearance** White

**Physical state** Cream/ Lotion Liquid

**Odor** Pleasant

#### Precautionary Statements - Prevention

None

#### Precautionary Statements - Response

None

#### Precautionary Statements - Storage

None

#### Precautionary Statements - Disposal

None

#### Hazards not otherwise classified (HNOC)

Not applicable

#### Unknown Toxicity

5.9 % of the mixture consists of ingredient(s) of unknown toxicity

#### Other information

Causes mild skin irritation

Harmful to aquatic life with long lasting effects

PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION

May cause slight eye irritation

#### Interactions with Other Chemicals

No information available.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical name           | CAS No     | Weight-% | Trade Secret |
|-------------------------|------------|----------|--------------|
| Glycerin                | 56-81-5    | 1 - 5    | *            |
| Behentrimonium chloride | 17301-53-0 | 1 - 5    | *            |
| Cetyl alcohol           | 36653-82-4 | 1 - 5    | *            |

\*The exact percentage (concentration) of composition has been withheld as a trade secret

### 4. FIRST AID MEASURES

#### First aid measures



---

|              |                                                                                                           |
|--------------|-----------------------------------------------------------------------------------------------------------|
| Eye contact  | Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.     |
| Skin contact | Wash with soap and water.                                                                                 |
| Inhalation   | Remove to fresh air.                                                                                      |
| Ingestion    | Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. |

**Most important symptoms and effects, both acute and delayed**

|                                     |                           |
|-------------------------------------|---------------------------|
| Most Important Symptoms and Effects | No information available. |
|-------------------------------------|---------------------------|

**Indication of any immediate medical attention and special treatment needed**

|                    |                        |
|--------------------|------------------------|
| Notes to Physician | Treat symptomatically. |
|--------------------|------------------------|

|                                  |
|----------------------------------|
| <b>5. FIRE-FIGHTING MEASURES</b> |
|----------------------------------|

**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media**

CAUTION: Use of water spray when fighting fire may be inefficient.

**Specific hazards arising from the chemical**

No information available.

**Explosion Data**

|                                  |       |
|----------------------------------|-------|
| Sensitivity to Mechanical Impact | None. |
|----------------------------------|-------|

|                                 |       |
|---------------------------------|-------|
| Sensitivity to Static Discharge | None. |
|---------------------------------|-------|

**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** Avoid contact with eyes.

### Environmental precautions

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

### Methods and material for containment and cleaning up

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

**Methods for cleaning up** Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Handling** Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible Products** None known based on information supplied.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

### Exposure Guidelines

| Chemical name       | ACGIH TLV                      | OSHA PEL                                                                                                                                                                                                                               | NIOSH IDLH |
|---------------------|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| Glycerin<br>56-81-5 | TWA: 10 mg/m <sup>3</sup> mist | TWA: 15 mg/m <sup>3</sup> mist, total particulate<br>TWA: 5 mg/m <sup>3</sup> mist, respirable fraction<br>(vacated) TWA: 10 mg/m <sup>3</sup> mist, total particulate<br>(vacated) TWA: 5 mg/m <sup>3</sup> mist, respirable fraction |            |

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits NIOSH IDLH Immediately Dangerous to Life or Health

**Other Exposure Guidelines** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992)

### Appropriate engineering controls

**Engineering Measures**

Showers  
Eyewash stations  
Ventilation systems

### Individual protection measures, such as personal protective equipment

**Eye/face protection** No special protective equipment required.

**Skin and body protection** No special protective equipment required.

**Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical and Chemical Properties

|                       |                          |                       |                          |
|-----------------------|--------------------------|-----------------------|--------------------------|
| <b>Physical state</b> | Cream/ Lotion, Liquid    | <b>Odor</b>           | Pleasant                 |
| <b>Appearance</b>     | White                    | <b>Odor Threshold</b> | No information available |
| <b>Color</b>          | No information available |                       |                          |

| <u>Property</u>                        | <u>Values</u>     | <u>Remarks</u> | <u>Method</u> |
|----------------------------------------|-------------------|----------------|---------------|
| pH                                     | 3                 | None known     |               |
| Melting / freezing point               | No data available | None known     |               |
| Boiling point / boiling range          | No data available | None known     |               |
| Flash Point                            | No data available | None known     |               |
| Evaporation Rate                       | No data available | None known     |               |
| Flammability (solid, gas)              | No data available | None known     |               |
| Flammability Limit in Air              |                   |                |               |
| Upper flammability limit               | No data available |                |               |
| Lower flammability limit               | No data available |                |               |
| Vapor pressure                         | No data available | None known     |               |
| Vapor density                          | No data available | None known     |               |
| Specific Gravity                       | 1                 | None known     |               |
| Water Solubility                       | Slightly soluble  | None known     |               |
| Solubility in other solvents           | No data available | None known     |               |
| Partition coefficient: n-octanol/water | No data available | None known     |               |
| Autoignition temperature               | No data available | None known     |               |
| Decomposition temperature              | No data available | None known     |               |
| Kinematic viscosity                    | No data available | None known     |               |
| Dynamic viscosity                      | No data available | None known     |               |
| Explosive properties                   | No data available |                |               |
| Oxidizing properties                   | No data available |                |               |

### Other Information

|                        |                   |
|------------------------|-------------------|
| <b>Softening Point</b> | No data available |
| <b>VOC Content (%)</b> | No data available |
| <b>Particle Size</b>   | No data available |



## Particle Size Distribution

## 10. STABILITY AND REACTIVITY

### Reactivity

No data available.

### Chemical stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### Conditions to avoid

Heat, flames and sparks.

### Incompatible materials

None known based on information supplied.

### Hazardous Decomposition Products

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

|              |                                                                   |
|--------------|-------------------------------------------------------------------|
| Inhalation   | Specific test data for the substance or mixture is not available. |
| Eye contact  | Specific test data for the substance or mixture is not available. |
| Skin contact | Specific test data for the substance or mixture is not available. |
| Ingestion    | Specific test data for the substance or mixture is not available. |

#### Component Information

| Chemical name               | Oral LD50             | Dermal LD50             | Inhalation LC50                     |
|-----------------------------|-----------------------|-------------------------|-------------------------------------|
| Glycerin<br>56-81-5         | = 12600 mg/kg ( Rat ) | > 10 g/kg ( Rabbit )    | > 570 mg/m <sup>3</sup> ( Rat ) 1 h |
| Cetyl alcohol<br>36653-82-4 | = 5 g/kg ( Rat )      | > 2600 mg/kg ( Rabbit ) | -                                   |

### Information on toxicological effects

**Symptoms** No information available.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Sensitization** No information available.

**Mutagenic Effects** No information available.

**Carcinogenicity** Contains no ingredient listed as a carcinogen.

|                          |                           |
|--------------------------|---------------------------|
| Reproductive toxicity    | No information available. |
| STOT - single exposure   | No information available. |
| STOT - repeated exposure | No information available. |
| Target Organ Effects     | None known.               |
| Aspiration Hazard        | No information available. |

#### **Numerical measures of toxicity Product Information**

The following values are calculated based on chapter 3.1 of the GHS document

##### **ATEmix (oral)**

46,538.00 mg/kg

## **12. ECOLOGICAL INFORMATION**

##### **Ecotoxicity**

No information available.

##### **Persistence and Degradability**

No information available.

##### **Bioaccumulation**

No information available.

##### **Other adverse effects**

No information available.

## **13. DISPOSAL CONSIDERATIONS**

##### **Waste treatment methods**

##### **Disposal methods**

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

##### **Contaminated Packaging**

Dispose of contents/containers in accordance with local regulations.

California Hazardous Waste Codes 561

## **14. TRANSPORT INFORMATION**





|                             |               |
|-----------------------------|---------------|
| <b><u>DOT</u></b>           | NOT REGULATED |
| <b>Proper Shipping Name</b> | NON REGULATED |
| <b>Hazard Class</b>         | N/A           |
| <b><u>TDG</u></b>           | Not regulated |
| <b><u>MEX</u></b>           | Not regulated |
| <b><u>ICAO</u></b>          | Not regulated |
| <b><u>IATA</u></b>          | Not regulated |
| <b>Proper Shipping Name</b> | NON REGULATED |
| <b>Hazard Class</b>         | N/A           |
| <b><u>IMDG/IMO</u></b>      | Not regulated |
| <b>Hazard Class</b>         | N/A           |
| <b><u>RID</u></b>           | Not regulated |
| <b><u>ADR</u></b>           | Not regulated |
| <b><u>ADN</u></b>           | Not regulated |

## 15. REGULATORY INFORMATION

### International Inventories

|      |                                                      |
|------|------------------------------------------------------|
| TSCA | Complies                                             |
| DSL  | All components are listed either on the DSL or NDSL. |

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

### US Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### SARA 311/312 Hazard Categories

|                                   |    |
|-----------------------------------|----|
| Acute Health Hazard               | No |
| Chronic Health Hazard             | No |
| Fire Hazard                       | No |
| Sudden release of pressure hazard | No |
| Reactive Hazard                   | No |

#### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material



## US State Regulations

### California Proposition 65

This product does not contain any Proposition 65 chemicals.

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

| Chemical name                 | New Jersey | Massachusetts | Pennsylvania | Rhode Island | Illinois |
|-------------------------------|------------|---------------|--------------|--------------|----------|
| Glycerin<br>56-81-5           | X          | X             | X            | X            |          |
| Benzoic acid<br>65-85-0       | X          | X             | X            | X            |          |
| Benzyl alcohol<br>100-51-6    |            | X             | X            |              |          |
| Sodium hydroxide<br>1310-73-2 | X          | X             | X            | X            |          |

## International Regulations

### Mexico

#### National occupational exposure limits

| Component                     | Carcinogen Status | Exposure Limits                |
|-------------------------------|-------------------|--------------------------------|
| Glycerin<br>56-81-5 ( 1 - 5 ) | -                 | 10mg/m <sup>3</sup> (mist) TWA |

Mexico - Occupational Exposure Limits - Carcinogens

### Canada

#### WHMIS Hazard Class

Not determined

## 16. OTHER INFORMATION

|      |                  |                |                   |                                 |
|------|------------------|----------------|-------------------|---------------------------------|
| NFPA | Health Hazards 1 | Flammability 0 | Instability 0     | Physical and Chemical Hazards - |
| HMIS | Health Hazards 1 | Flammability 0 | Physical Hazard 0 | Personal Protection X           |

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**End of Safety Data Sheet**

