



## SAFETY DATA SHEET Colonial ZF-25

According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200

### 1. Identification

#### Product identifier

**Product name** Colonial ZF-25

**Product number** 3346

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

**Application** Surfactant

**Uses advised against** No specific uses advised against are identified.

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

**Manufacturer** Colonial Chemical, Inc.  
225 Colonial Drive  
South Pittsburg, TN 37380  
U.S.A.  
+1 (423) 837-8800

#### Emergency telephone number

**Emergency telephone** Toll free (in USA, Canada, Puerto Rico, Virgin Islands only): 1-800-424-9300  
Direct dial: +1 703-527-3887

### 2. Hazard(s) identification

#### Classification of the substance or mixture

**Physical hazards** Not Classified

**Health hazards** Skin Corr. 1A - H314 Eye Dam. 1 - H318

**Environmental hazards** Not Classified

#### Label elements

##### Hazard symbols



**Signal word** Danger

**Hazard statements** H314 Causes severe skin burns and eye damage.

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<b>Precautionary statements</b>	P260 Do not breathe vapor/ spray.
	P264 Wash contaminated skin thoroughly after handling.
	P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
	P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.
	P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
	P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.
	P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P310 Immediately call a poison center/ doctor.
	P321 Specific treatment (see medical advice on this label).
	P363 Wash contaminated clothing before reuse.
P405 Store locked up.	
P501 Dispose of contents/ container in accordance with national regulations.	

<b>Contains</b>	Poly(oxy-1,2-ethanediyl), $\alpha$ -phenyl- $\omega$ -hydroxy-, phosphate, sodium salt, Ethanol, 2-phenoxy-, phosphate, potassium salt, Potassium 3,5,5-trimethylhexanoate
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### Other hazards

This product does not contain any substances classified as PBT or vPvB.

### 3. Composition/information on ingredients

#### Mixtures

<b>Poly(oxy-1,2-ethanediyl), <math>\alpha</math>-phenyl-<math>\omega</math>-hydroxy-, phosphate, sodium salt</b> CAS number: 72283-32-0	<b>10-30%</b>
<b>Classification</b> Skin Irrit. 2 - H315 Eye Dam. 1 - H318	
<b>Alcohols, C12-14, ethoxylated propoxylated</b> CAS number: 68439-51-0	<b>10-30%</b>
<b>Classification</b> Eye Irrit. 2A - H319 Aquatic Chronic 3 - H412	
<b>Ethanol, 2-phenoxy-, phosphate, potassium salt</b> CAS number: 68511-20-6	<b>5-10%</b>
<b>Classification</b> Skin Corr. 1B - H314 Eye Dam. 1 - H318	

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<b>Potassium 3,5,5-trimethylhexanoate</b>	<b>5-10%</b>
CAS number: 93918-10-6	
<b>Classification</b>	
Acute Tox. 4 - H302	
Skin Corr. 1A - H314	
Eye Dam. 1 - H318	
<b>1,4-dioxane</b>	<b>&lt;0.001%</b>
CAS number: 123-91-1	
<b>Classification</b>	
Flam. Liq. 2 - H225	
Eye Irrit. 2A - H319	
Carc. 2 - H351	
STOT SE 3 - H335	
<b>propylene oxide</b>	<b>&lt;0.001%</b>
CAS number: 75-56-9	
<b>Classification</b>	
Flam. Liq. 1 - H224	
Acute Tox. 4 - H302	
Acute Tox. 4 - H312	
Acute Tox. 4 - H332	
Skin Irrit. 2 - H315	
Eye Irrit. 2A - H319	
Muta. 1B - H340	
Carc. 1B - H350	
STOT SE 3 - H335	
<b>ethylene oxide</b>	<b>&lt;0.001%</b>
CAS number: 75-21-8	
<b>Classification</b>	
Flam. Gas 1 - H220	
Acute Tox. 3 - H331	
Skin Irrit. 2 - H315	
Eye Irrit. 2A - H319	
Muta. 1B - H340	
Carc. 1B - H350	
STOT SE 3 - H335	

The full text for all hazard statements is displayed in Section 16.

**Composition comments** \* The identity or exact percentage is withheld as a trade secret.

#### 4. First-aid measures

##### Description of first aid measures

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<b>General information</b>	Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel.
<b>Inhalation</b>	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if symptoms are severe or persist.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Get medical advice/attention if you feel unwell. Do not induce vomiting unless under the direction of medical personnel.
<b>Skin Contact</b>	Rinse with water.
<b>Eye contact</b>	Rinse immediately with plenty of water. Do not rub eye. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.
<b>Protection of first aiders</b>	First aid personnel should wear appropriate protective equipment during any rescue.

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

<b>General information</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Inhalation</b>	No specific symptoms known.
<b>Ingestion</b>	May cause irritation.
<b>Skin contact</b>	Redness. Irritating to skin.
<b>Eye contact</b>	Causes serious eye damage. Symptoms following overexposure may include the following: Pain. Profuse watering of the eyes. Redness.

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

<b>Notes for the doctor</b>	Treat symptomatically.
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## 5. Fire-fighting measures

### Extinguishing media

<b>Suitable extinguishing media</b>	The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.

### Special hazards arising from the substance or mixture

<b>Specific hazards</b>	Containers can burst violently or explode when heated, due to excessive pressure build-up.
<b>Hazardous combustion products</b>	Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors.

### Advice for firefighters

<b>Protective actions during firefighting</b>	Avoid breathing fire gases or vapors. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapors and protect men stopping the leak. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.
<b>Special protective equipment for firefighters</b>	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Standard Firefighter's clothing including helmets, protective boots and gloves will provide a basic level of protection for chemical incidents.

## 6. Accidental release measures

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### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Do not touch or walk into spilled material.

### Environmental precautions

**Environmental precautions** Avoid discharge into drains or watercourses or onto the ground.

### Methods and material for containment and cleaning up

**Methods for cleaning up** Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Small Spillages: Collect spillage. Large Spillages: Absorb spillage with non-combustible, absorbent material. The contaminated absorbent may pose the same hazard as the spilled material. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. For waste disposal, see Section 13.

**Reference to other sections** For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

## 7. Handling and storage

### Precautions for safe handling

**Usage precautions** Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimize spills. Keep container tightly sealed when not in use. Avoid the formation of mists. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.

**Advice on general occupational hygiene** Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse.

### Conditions for safe storage, including any incompatibilities

**Storage precautions** Store away from incompatible materials (see Section 10). Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage.

**Storage class** Chemical storage.

### Specific end uses(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.

## 8. Exposure controls/Personal protection

### Control parameters

### Occupational exposure limits

#### **1,4-dioxane**

Long-term exposure limit (8-hour TWA): ACGIH 20 ppm 72 mg/m<sup>3</sup>

A3, Sk

Long-term exposure limit (8-hour TWA): OSHA 100 ppm 360 mg/m<sup>3</sup>

Sk

#### **propylene oxide**

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Long-term exposure limit (8-hour TWA): OSHA 100 ppm 240 mg/m<sup>3</sup>

Long-term exposure limit (8-hour TWA): ACGIH 2 ppm 4.8 mg/m<sup>3</sup>

A3, DSens

### ethylene oxide

Long-term exposure limit (8-hour TWA): ACGIH 1 ppm 1.8 mg/m<sup>3</sup>

A2

Long-term exposure limit (8-hour TWA): OSHA 1 ppm

Short-term exposure limit (15-minute): OSHA 5 ppm

ACGIH = American Conference of Governmental Industrial Hygienists.

OSHA = Occupational Safety and Health Administration.

A3 = Confirmed Animal Carcinogen with Unknown Relevance to Humans.

A2 = Suspected Human Carcinogen.

Sk = Danger of cutaneous absorption.

DSens = Dermal sensitizer.

### 1,4-dioxane (CAS: 123-91-1)

**Immediate danger to life and health** 500 ppm

### ethylene oxide (CAS: 75-21-8)

**Immediate danger to life and health** 800 ppm

### propylene oxide (CAS: 75-56-9)

**Immediate danger to life and health** 400 ppm

### Exposure controls

#### Protective equipment



#### Appropriate engineering controls

Provide adequate ventilation. Observe any occupational exposure limits for the product or ingredients.

#### Eye/face protection

Wear tight-fitting, chemical splash goggles or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

#### Hand protection

Wear protective gloves. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with OSHA 1910.138 and be demonstrated to be impervious to the chemical and resist degradation. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.

#### Other skin and body protection

Wear appropriate clothing to prevent repeated or prolonged skin contact.

#### Hygiene measures

Wash after use and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.

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<b>Respiratory protection</b>	Ensure all respiratory protective equipment is suitable for its intended use and is NIOSH approved. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with OSHA 1910.134. Full face mask respirators with replaceable filter cartridges should comply with OSHA 1910.134. Half mask and quarter mask respirators with replaceable filter cartridges should comply with OSHA 1910.134.
<b>Environmental exposure controls</b>	Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### 9. Physical and chemical properties

#### Information on basic physical and chemical properties

<b>Appearance</b>	Liquid.
<b>Color</b>	Colorless to Amber
<b>Odor</b>	Characteristic.
<b>Odor threshold</b>	Not available.
<b>pH (as is):</b>	7.0 - 8.5
<b>Melting point</b>	Not available.
<b>Initial boiling point and range</b>	> 100°C/212°F
<b>Flash point</b>	> 93.3°C Pensky-Martens closed cup.
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not applicable. Product is a liquid.
<b>Upper/lower flammability or explosive limits</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	Soluble in water.
<b>Partition coefficient</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition Temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Explosive properties</b>	Not considered to be explosive.
<b>Oxidizing properties</b>	Does not meet the criteria for classification as oxidizing.
<b>Other information</b>	None.
<b>Surface Tension</b>	Not available.
<b>% Solids</b>	Not available.

### 10. Stability and reactivity

<b>Reactivity</b>	See the other subsections of this section for further details.
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<b>Stability</b>	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
<b>Possibility of hazardous reactions</b>	No potentially hazardous reactions known.
<b>Conditions to avoid</b>	There are no known conditions that are likely to result in a hazardous situation.
<b>Materials to avoid</b>	No specific material or group of materials is likely to react with the product to produce a hazardous situation.
<b>Hazardous decomposition products</b>	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors.

### 11. Toxicological information

#### Information on toxicological effects

##### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** Based on available data the classification criteria are not met.

**ATE oral (mg/kg)** 7,142.86

##### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** Based on available data the classification criteria are not met.

##### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** Based on available data the classification criteria are not met.

##### Skin corrosion/irritation

**Skin corrosion/irritation** Irritating to skin.

##### Serious eye damage/irritation

**Serious eye damage/irritation** Eye Dam. 1 - H318 Causes serious eye damage.

##### Respiratory sensitization

**Respiratory sensitization** Based on available data the classification criteria are not met.

##### Skin sensitization

**Skin sensitization** Based on available data the classification criteria are not met.

##### Germ cell mutagenicity

**Genotoxicity - in vitro** Based on available data the classification criteria are not met.

##### Carcinogenicity

**Carcinogenicity** Based on available data the classification criteria are not met.

##### **IARC carcinogenicity**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

##### Reproductive toxicity

**Reproductive toxicity - fertility** Based on available data the classification criteria are not met.

**Reproductive toxicity - development**

Based on available data the classification criteria are not met.

##### Specific target organ toxicity - single exposure

**STOT - single exposure** Not classified as a specific target organ toxicant after a single exposure.

##### Specific target organ toxicity - repeated exposure



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<b>STOT - repeated exposure</b>	Not classified as a specific target organ toxicant after repeated exposure.
<b><u>Aspiration hazard</u></b>	
<b>Aspiration hazard</b>	Based on available data the classification criteria are not met.
<b>General information</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Inhalation</b>	No specific symptoms known.
<b>Ingestion</b>	May cause irritation.
<b>Skin Contact</b>	Redness. Irritating to skin.
<b>Eye contact</b>	Causes serious eye damage. Symptoms following overexposure may include the following: Pain. Profuse watering of the eyes. Redness.
<b>Route of exposure</b>	Ingestion Inhalation Skin and/or eye contact
<b>Target Organs</b>	No specific target organs known.

### 12. Ecological information

<b>Ecotoxicity</b>	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.
<b>Toxicity</b>	Based on available data the classification criteria are not met.
<b><u>Persistence and degradability</u></b>	
<b>Persistence and degradability</b>	The degradability of the product is not known.
<b><u>Bioaccumulative potential</u></b>	
<b>Bio-Accumulative Potential</b>	No data available on bioaccumulation.
<b>Partition coefficient</b>	Not available.
<b><u>Mobility in soil</u></b>	
<b>Mobility</b>	No data available.
<b><u>Other adverse effects</u></b>	
<b>Other adverse effects</b>	None known.

### 13. Disposal considerations

#### Waste treatment methods

<b>General information</b>	The generation of waste should be minimized or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.
<b>Disposal methods</b>	Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labeled with their contents. Incineration or landfill should only be considered when recycling is not feasible.

### 14. Transport information

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<b>General</b>	This product may be consigned under the Limited Quantity or Excepted Quantity provisions.
<b>Sea transport notes</b>	Class 8: Limited quantity packaging is maximum 1 L or 1 kg (PG II) and 5 L or 5 kg (PG III) net, and not to exceed 30 kg gross. Excepted quantity package is maximum 30 ml or 30 g (inner) and either 500 g (PG II) or 1000 g (PG III) gross.
<b>Air transport notes</b>	Class 8: Limited quantity packaging is maximum 0.5 L or 0.5 kg (PG II) and 1.0 L or 1.0 kg (PG III) net and not to exceed 30 kg gross. Excepted quantity package is maximum 30 ml or 30 g (inner) and either 500 g (PG II) or 1000 g (PG III) gross. These limits apply to both passenger and cargo aircraft.
<b>DOT transport notes</b>	Class 8: Corrosive material is excepted under limited quantity provisions if shipped by ground, does not contain a marine pollutant, and packaging does not exceed 1 L inner / 1 kg gross (PG II) or 5 L inner / 5 kg gross (PG III).

### UN Number

<b>UN No. (TDG)</b>	1760
<b>UN No. (IMDG)</b>	1760
<b>UN No. (ICAO)</b>	1760
<b>UN No. (DOT)</b>	UN1760

### UN proper shipping name

<b>Proper shipping name (TDG)</b>	CORROSIVE LIQUIDS, N.O.S. (CONTAINS Potassium alkanoate)
<b>Proper shipping name (IMDG)</b>	CORROSIVE LIQUIDS, N.O.S. (CONTAINS Potassium alkanoate)
<b>Proper shipping name (ICAO)</b>	CORROSIVE LIQUIDS, N.O.S. (CONTAINS Potassium alkanoate)
<b>Proper shipping name (DOT)</b>	CORROSIVE LIQUIDS, N.O.S. (CONTAINS Potassium alkanoate)

### Transport hazard class(es)

<b>Transport Labels (International)</b>	No transport warning sign required.
<b>DOT hazard class</b>	8
<b>DOT hazard label</b>	8
<b>TDG class</b>	8
<b>TDG label(s)</b>	8
<b>IMDG Class</b>	8
<b>ICAO class/division</b>	8

### Transport labels



### DOT transport labels



### Packing group

<b>TDG Packing Group</b>	II
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## Colonial ZF-25

IMDG packing group II

ICAO packing group II

DOT packing group II

### Environmental hazards

#### Environmentally Hazardous Substance

No.

### Special precautions for user

Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**DOT reportable quantity** RQ: Sodium phosphate, dibasic (125000 lbs), RQ: Ethylene oxide (1001001.001 lbs)

**Transport in bulk according to** Not applicable.

**Annex II of MARPOL 73/78**

**and the IBC Code**

## 15. Regulatory information

### US Federal Regulations

#### **SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities**

The following ingredients are listed or exempt:

*propylene oxide*

EPCRA 302 TPQ 10000 lbs Tier II TPQ 500 lbs

*ethylene oxide*

EPCRA 302 TPQ 1000 lbs Tier II TPQ 500 lbs

#### **CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)**

The following ingredients are listed or exempt:

*Phosphoric acid, sodium salt (1:2)*

Final CERCLA RQ: 5000(2270) pounds (Kilograms)

*1,4-dioxane*

Final CERCLA RQ: 100(45.4) pounds (Kilograms)

*propylene oxide*

Final CERCLA RQ: 100(45.4) pounds (Kilograms)

*ethylene oxide*

Final CERCLA RQ: 10(4.54) pounds (Kilograms)

#### **SARA Extremely Hazardous Substances EPCRA Reportable Quantities**

None of the ingredients are listed or exempt.

#### **SARA 313 Emission Reporting**

The following ingredients are listed or exempt:

*1,4-dioxane*

0.1 %

*propylene oxide*

0.1 %

*ethylene oxide*

0.1 %

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### CAA Accidental Release Prevention

The following ingredients are listed or exempt:

*propylene oxide*

Threshold Quantity: 10000 lbs

*ethylene oxide*

Threshold Quantity: 10000 lbs

### FDA - Essential Chemical

None of the ingredients are listed or exempt.

### FDA - Precursor Chemical

None of the ingredients are listed or exempt.

### SARA (311/312) Hazard Categories

None of the ingredients are listed or exempt.

### OSHA Highly Hazardous Chemicals

The following ingredients are listed or exempt:

*ethylene oxide*

Threshold Quantity: 5000 lbs

### US State Regulations

#### California Proposition 65 Carcinogens and Reproductive Toxins

The following ingredients are listed or exempt:

*1,4-dioxane*

Carcinogen.

*propylene oxide*

Carcinogen.

*ethylene oxide*

Carcinogen, developmental toxin and reproductive toxin.

#### California Air Toxics "Hot Spots" (A-I)

The following ingredients are listed or exempt:

*1,4-dioxane*

*propylene oxide*

*ethylene oxide*

#### California Air Toxics "Hot Spots" (A-II)

None of the ingredients are listed or exempt.

#### California Directors List of Hazardous Substances

The following ingredients are listed or exempt:

*Phosphoric acid, sodium salt (1:2)*

*1,4-dioxane*

*propylene oxide*

*ethylene oxide*

#### Massachusetts "Right To Know" List

The following ingredients are listed or exempt:

*Phosphoric acid, sodium salt (1:2)*

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*1,4-dioxane*

*propylene oxide*

*ethylene oxide*

### **Rhode Island "Right To Know" List**

The following ingredients are listed or exempt:

*1,4-dioxane*

*propylene oxide*

*ethylene oxide*

### **Minnesota "Right To Know" List**

The following ingredients are listed or exempt:

*1,4-dioxane*

*propylene oxide*

*ethylene oxide*

### **New Jersey "Right To Know" List**

The following ingredients are listed or exempt:

*Phosphoric acid, sodium salt (1:2)*

*1,4-dioxane*

*propylene oxide*

*ethylene oxide*

### **Pennsylvania "Right To Know" List**

The following ingredients are listed or exempt:

*Phosphoric acid, sodium salt (1:2)*

*1,4-dioxane*

*propylene oxide*

*ethylene oxide*

### **Inventories**

**EU - REACH** Not registered

### **Canada - DSL/NDSL**

All the ingredients are listed or exempt.  
NDSL

### **US - TSCA**

All the ingredients are listed or exempt.

### **US - TSCA 12(b) Export Notification**

None of the ingredients are listed or exempt.

### **Australia - AICS**

Not listed.

### **Japan - ENCS**

Not listed.

### **Korea - KECI**

Not listed.

## Colonial ZF-25

### China - IECSC

Not listed.

### China - IECIC

Not determined.

### Philippines - PICCS

Not listed.

### New Zealand - NZIOC

Not listed.

### Taiwan - TCSI

Not listed.

## 16. Other information

**Abbreviations and acronyms used in the safety data sheet** TDG: The transport of dangerous goods act

IATA: International air transport association.

ICAO: Technical instructions for the safe transport of dangerous goods by air.

IMDG: International maritime dangerous goods.

CAS: Chemical abstracts service.

ATE: Acute toxicity estimate.

LC<sub>50</sub>: Lethal concentration to 50 % of a test population.

LD<sub>50</sub>: Lethal dose to 50% of a test population (median lethal dose).

EC<sub>50</sub>: 50% of maximal effective concentration.

PBT: Persistent, bioaccumulative and toxic substance.

vPvB: Very persistent and very bioaccumulative.

**Classification abbreviations and acronyms** Eye Dam. = Serious eye damage  
Skin Irrit. = Skin irritation

**Training advice** Only trained personnel should use this material.

**Issued by** Regulatory Affairs Department

**Revision date** 7/20/2020

**Revision** 2

**Supersedes date** 1/9/2018

**SDS No.** 5523

## Colonial ZF-25

**Hazard statements in full**

H220 Extremely flammable gas.  
H224 Extremely flammable liquid and vapor.  
H225 Highly flammable liquid and vapor.  
H302 Harmful if swallowed.  
H312 Harmful in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H331 Toxic if inhaled.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
H340 May cause genetic defects.  
H350 May cause cancer.  
H351 Suspected of causing cancer.  
H412 Harmful to aquatic life with long lasting effects.

**End of SDS**

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.