





**Hazardous components**

Component	Concentration
<b>Laurylamine oxide 30-50% (CAS no.: 1643-20-5)</b> CLASSIFICATIONS: Eye damage/irritation (chapter 3.3), Cat. 1; Skin corrosion/irritation (chapter 3.2), Cat. 2. HAZARDS: No data available.	< 5 %
<b>N-Ethyl-N-Soya Morpholinium Ethosulphate (CAS no.: 61791-34-2)</b> CLASSIFICATIONS: Acute toxicity, oral (chapter 3.1), Cat. 4; Eye damage/irritation (chapter 3.3), Cat. 1; Skin corrosion/irritation (chapter 3.2), Cat. 2. HAZARDS: No data available.	< 5 %
<b>WATER (CAS no.: 7732-18-5)</b> CLASSIFICATIONS: No data available. HAZARDS: No data available.	< 100 %
<b>*TRADE SECRET</b> CLASSIFICATIONS: No data available. HAZARDS: No data available.	< 100 %

**SECTION 4: First-aid measures**

**4.1 Description of necessary first-aid measures**

General advice	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).
If inhaled	If breathed in, move person into fresh air. If symptoms persist, call a physician.
In case of skin contact	Take off all contaminated clothing immediately. Wash off with soap and plenty of water. If symptoms persist, call a physician.
In case of eye contact	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
If swallowed	If large quantities of this material are swallowed, call a physician immediately.

Personal protective equipment for first-aid responders  
See Section 8 for exposure and PPE recommendations

**4.3 Indication of immediate medical attention and special treatment needed, if necessary**  
If you feel unwell seek medical attention

**SECTION 5: Fire-fighting measures**

**5.1 Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Do not use high-volume water-jet.

**5.2 Specific hazards arising from the chemical**

Do not use a solid water stream as it may scatter and spread fire.  
Do not allow run-off from fire fighting to enter drains or water



courses.

**5.3 Special protective actions for fire-fighters**

Specific extinguishing methods : Standard procedure for chemical fires.

Special protective equipment for fire-fighters: In the event of fire, wear self-contained breathing apparatus.

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**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Ensure adequate ventilation.

**6.2 Environmental precautions**

Should not be released into the environment. See Section 12 for additional ecological information.

**6.3 Methods and materials for containment and cleaning up**

Methods and materials for containment and cleaning up: Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.

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**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

Handle in accordance with good industrial hygiene and safety practice.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in original container.

Keep container tightly closed in a dry and well-ventilated place

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**SECTION 8: Exposure controls/personal protection**

**8.2 Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**8.3 Individual protection measures, such as personal protective equipment (PPE)**

**Eye/face protection**

Safety glasses

**Skin protection**

For prolonged or repeated contact use protective gloves.

**Body protection**

Impervious clothing

**Respiratory protection**

No personal respiratory protective equipment normally required. Use in a well ventilated area.

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**SECTION 9: Physical and chemical properties**



**Information on basic physical and chemical properties**

Appearance/form (physical state, color, etc.)	Thin clear liquid
Odor	Irish Spring
Odor threshold	No data available.
pH	No data available.
Melting point/freezing point	0C/32F
Initial boiling point and boiling range	100C / 212F
Flash point	None
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper/lower flammability limits	No data available.
Upper/lower explosive limits	No data available.
Vapor pressure	4.5 (@20deg C)
Vapor density	No data available.
Relative density	No data available.
Solubility(ies)	No data available. 1.00 - 1.02
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.
Explosive properties	No data available.
Oxidizing properties	No data available.

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**SECTION 10: Stability and reactivity**

**10.1 Reactivity**

Product is non reactive when used and store as directed.

**10.2 Chemical stability**

Product is stable when used and stored as directed.

**10.3 Possibility of hazardous reactions**

Hazardous Polymerization will not occur

**10.4 Conditions to avoid**

None under normal use conditions.

**10.5 Incompatible materials**

Do not store near acids, Strong oxidizing agents, Carbon dioxide (CO<sub>2</sub>)

**10.6 Hazardous decomposition products**

In case of fire hazardous decomposition products may be produced such as: Carbon oxides

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**SECTION 11: Toxicological information**

**Information on toxicological effects**

**Acute toxicity**



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N-Ethyl-N-Soya Morpholinium Ethosulphate: Acute oral toxicity :  
LD50 Rat: 1,670 mg/kg  
Acute inhalation toxicity :  
LC50 Rat: 5.04 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Test substance: 1%  
Assessment: No mortality observed at this dose.

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Laurylamine oxide 30-50%: Acute oral toxicity:  
Acute toxicity estimate : 3,040 mg/kg  
Method: Calculation method  
Acute oral toxicity:  
LD50 (Rat): 1,064 mg/kg  
Assessment: The component/mixture is moderately  
toxic after single ingestion.

#### **Skin corrosion/irritation**

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N-Ethyl-N-Soya Morpholinium Ethosulphate: Result: Moderate skin irritation  
Method: EpiDerm Skin Model  
Test substance: 100%  
N-Ethyl-N-Soya Morpholinium Ethosulphate:  
Species: human keratinocytes  
Result: Moderate skin irritation  
Classification: Irritating to skin.  
Method: OECD Test Guideline 431  
GLP: yes

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Laurylamine oxide 30-50%: Species: Rabbit  
Result: Irritating to skin.

#### **Serious eye damage/irritation**

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N-Ethyl-N-Soya Morpholinium Ethosulphate: Result: Severe eye irritation  
Method: In vitro study  
Test substance: 10%  
N-Ethyl-N-Soya Morpholinium Ethosulphate:  
Species: Bovine cornea  
Classification: Risk of serious damage to eyes.  
Method: OECD Test Guideline 437  
GLP: yes  
Test substance: 35%



## Pet Control SAFETY DATA SHEET

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Laurylamine oxide 30-50%: Species: Rabbit  
Result: Risk of serious damage to eyes.

### Respiratory or skin sensitization

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N-Ethyl-N-Soya Morpholinium Ethosulphate: N-Ethyl-N-Soya Morpholinium Ethosulphate:  
Routes of exposure: Dermal  
Species: Guinea pig  
Classification: Based on available data, the classification criteria are not met  
Result: The results of a test on guinea pigs showed this substance to be a weak skin sensitizer.  
Method: Maximization Test (GPMT)

### Germ cell mutagenicity

No data available.

### Carcinogenicity

No data available.

### Reproductive toxicity

No data available.

### Summary of evaluation of the CMR properties

No data available.

### STOT-single exposure

No data available.

### STOT-repeated exposure

No data available.

### Aspiration hazard

No data available.

### Additional information

No data available.

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## SECTION 12: Ecological information

### Toxicity

No data available.

### Persistence and degradability

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N-Ethyl-N-Soya Morpholinium Ethosulphate: Exposure time: 28 d  
Method: OECD Test Guideline 301B  
Remarks: Not readily biodegradable



# Pet Control SAFETY DATA SHEET

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Laurylamine oxide 30-50%: aerobic  
Inoculum: activated sludge  
Concentration: 100 mg/l  
Biodegradation: 100 %  
Exposure time: 28 d  
Remarks: Readily biodegradable

## Bioaccumulative potential

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Laurylamine oxide 30-50%: Partition coefficient:  
noctanol/water : log Pow: Estimated 4.670

**Mobility in soil**  
No data available.

**Results of PBT and vPvB assessment**  
No data available.

**Other adverse effects**  
No data available.

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## SECTION 13: Disposal considerations

**Disposal of the product**  
Dispose of product in accordance with local, state, and federal regulations.

**Disposal of contaminated packaging**  
Dispose of as unused material.

**Waste treatment**  
Dispose of only in accordance with local, state, and federal regulations.

**Sewage disposal**  
Do not dispose of in sewers.

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## SECTION 14: Transport information

**DOT (US)**  
Not dangerous goods

**IMDG**  
Not dangerous goods

**IATA**  
Not dangerous goods

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## SECTION 15: Regulatory information



**15.1 Safety, health and environmental regulations specific for the product in question**

**Pennsylvania Right To Know Components**

N-Ethyl-N-Soya Morpholinium Ethosulphate 61791-34-2 30 - 40 %

1643-20-5

Laurylamine oxide

30 - 50 %

N-Ethyl-N-Soya Morpholinium Ethosulphate 61791-34-2 30 - 40 %

1643-20-5

Laurylamine oxide

30 - 50 %

**New Jersey Right To Know Components**

1643-20-5

Laurylamine oxide

30 - 50 %

**SARA 311/312 Hazards**

Acute Health Hazard

**California Prop. 65 Components**

**WARNING!** This product contains a chemical known in the State of California to cause cancer.

diethyl sulphate 64-67-5

bis (2-chloroethyl) ether 111-44-4

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**SECTION 16: Other information**

Revision Date:

02/23/2017

Other Information:

This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Party Responsible for the Preparation of This Document

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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