

Revision Date 24-Oct-2006

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product code** DL4260  
**Product name** QUEST 2  
**Recommended Use** Cleaner / Deodorizer  
**Supplier** Drummond American Corporation  
 600 Corporate Woods Parkway  
 Vernon Hills, IL 60061  
 (847) 913-9313  
**Emergency telephone number** (888) 426-4851

## 2. HAZARDS IDENTIFICATION

Emergency Overview		
Irritant. Flammable.		
Color Green	Odor Mint-like	Form Liquid

**Aggravated Medical Conditions** None Known

**Principal Routes of Exposure** Eyes. Skin.

### Potential health effects

**Eyes** Exposure to vapors may cause the following effects:. Irritation.  
**Skin** Repeated or prolonged exposure may cause:. Skin Irritation. Defatting.  
**Inhalation** Exposure to vapors may cause the following effects. Respiratory irritation.  
**Ingestion** Irritation of the throat. Harmful if swallowed.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
n-alkyl dimethyl benzyl ammonium chloride	8001-54-5	0.5-1.5
Methyl Salicylate	119-36-8	1-5
Isopropyl alcohol	67-63-0	10-23

## 4. FIRST AID MEASURES

**Eye contact** Flush with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.  
**Skin contact** Flush area with water for 15 minutes. Seek medical attention if irritation persists.

<b>Ingestion</b>	Drink plenty of water. Do not induce vomiting. Seek medical attention if irritation persists.
<b>Inhalation</b>	Remove to fresh air. Artificial respiration and/or oxygen may be necessary. Seek medical attention.

## 5. FIRE FIGHTING MEASURES

<b>Flash point °C</b>	34
<b>Flash point °F</b>	94
<b>Method</b>	Tag closed cup
<b>Autoignition temperature °C</b>	No data available
<b>Autoignition temperature °F</b>	No data available
<b><u>Flammability Limits (% in Air)</u></b>	
<b>Upper</b>	Not Applicable
<b>Lower</b>	Not Applicable

### **Suitable extinguishing media**

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

### **Special protective equipment for firefighters**

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

### **Fire and Explosion Hazards**

Combustible liquid.

### **Sensitivity to shock**

No information available.

### **Sensitivity to static discharge**

No information available.

## 6. ACCIDENTAL RELEASE MEASURES

### **Methods for cleaning up**

Ventilate area to maintain exposure below permissible exposure limits. Use caution as spill may create a slip hazard.

### **Clean-up methods - small spill**

Soak up excess with absorbent material.

### **Clean-up methods - large spill**

Contain spill by diking or other methods. Hold for disposal or reuse.

## 7. HANDLING AND STORAGE

### **Handling**

Keep away from open flames, hot surfaces and sources of ignition. Wash hands with soap and water before eating, drinking, smoking, or using toilet facilities. Keep container closed when not in use.

### **Storage**

Check daily for any leaks from containers, vessels, pumps, and piping. Store in temperatures below 100 degrees F.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure limits

Chemical Name	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Isopropyl alcohol	400 ppm 980 mg/m <sup>3</sup>	-	200 ppm	400 ppm
Methyl Salicylate	-	-	-	-
n-alkyl dimethyl benzyl ammonium chloride	-	-	-	-

### Ventilation and Environmental Controls

Adequate ventilation should be provided to keep exposure levels below current acceptable exposure limits.

### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use.

### Personal protective equipment

#### Respiratory protection

If the exposure limits are exceeded, a NIOSH/MSHA approved respirator is recommended.

#### Hand Protection

Neoprene gloves. Rubber gloves.

#### Eye protection

Use safety eyewear designed to protect against splash of liquids.

#### Skin and body protection

None necessary under normal conditions

#### Other Protective Equipment

A safety shower and eye wash station should be available for emergency use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Liquid	Color	Green
Odor	Mint-like	Odor Threshold	Not Applicable
pH	7.5	Specific Gravity	0.97
Vapor pressure	No data available	Vapor density	No data available
Evaporation Rate	No data available	VOC Content	26.0%; 248.85 g/l
Water solubility	Soluble in water	Partition Coefficient (n-octanol/water)	Not Applicable
		Boiling point/range °C	100
Boiling point/range °F	212	Melting point/range °C	No data available
Melting point/range °F	No data available	Flash point °C	34
Flash point °F	94		

## 10. STABILITY AND REACTIVITY

**Stability**

Stable.

**Conditions to avoid**

None known.

**Incompatibility**

None known .

**Hazardous Decomposition Products**

Various hydrocarbons. Ammonia. Hydrochloric acid.

**Polymerization**

Hazardous polymerization does not occur.

## 11. TOXICOLOGICAL INFORMATION

**Component Information**

Chemical Name	LD50 (oral,rat)	LD50 (dermal,rat/rabbit)	LC50 (inhalation,rat)
<i>Isopropyl alcohol</i> 67-63-0	4396 mg/kg	12800 mg/kg 12800 mg/kg	72.6 mg/L
<i>Methyl Salicylate</i> 119-36-8	887 mg/kg	2500 mg/kg 5000 mg/kg	-
<i>n-alkyl dimethyl benzyl ammonium chloride</i> 8001-54-5	240 mg/kg	-	-

**Synergistic Products**

None known

**Potential health effects****Sensitization**

None known

**Chronic toxicity**

See Section 2 .

**Mutagenic effects**

None known

**Teratogenic effects**

None known

**Reproductive toxicity**

None known

**Target Organ Effects**

None Known

**Carcinogenic effects**

See table below

Chemical Name	ACGIH OEL - Carcinogens	IARC	NTP - Known Carcinogens	NTP - Suspected Human Carcinogens	OSHA RTK Carcinogens
Isopropyl alcohol	Listed	Not Listed	Not Listed	Not Listed	Listed
Methyl Salicylate	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
n-alkyl dimethyl benzyl ammonium chloride	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

## 12. ECOLOGICAL INFORMATION

Isopropyl alcohol

**Microtox Data**

*Photobacterium phosphoreum* EC50=35390 mg/L (5 min)

n-alkyl dimethyl benzyl ammonium chloride

**Microtox Data**

*Photobacterium phosphoreum* EC50=0.6 mg/L (15 min)

## 13. DISPOSAL CONSIDERATIONS

**Disposal Information**

As supplied, this product is a RCRA Hazardous Waste . Waste must be tested for ignitability to determine EPA hazardous waste numbers. Rinse empty container thoroughly with water before discarding. Carefully follow label instructions for disposal .

**Waste from residues / unused products**

Can be landfilled or incinerated, when in compliance with local regulations. Do not reuse container.

## 14. TRANSPORT INFORMATION

**DOT**

NA1993 Combustible liquid, n.o.s., PG III

*Exception:* Combustible liquid in non-bulk packaging with a Flash Point at or above 38°C (100°F), Consumer commodity, ORM-D

**TDG**

UN1993 FLAMMABLE LIQUID, N.O.S.(Isopropanol mixture), Class 3, PG III

**IMDG/IMO**

UN1993 FLAMMABLE LIQUID, N.O.S. (Isopropanol mixture) Class 3, PG III

**IATA**

UN1993 Flammable liquid, n.o.s.\* (Isopropanol mixture), Class 3, PG III

**MEX**

UN1993 LIQUIDO INFLAMABLE, N.E.P., 3,III

## 15. REGULATORY INFORMATION

Chemical Name	US EPA SARA 313 Emission Reporting
Isopropyl alcohol	Listed

Chemical Name	New Jersey - RTK	Pennsylvania - RTK	California Prop. 65
Isopropyl alcohol	Listed	Listed Listed	Not Listed
Methyl Salicylate	Not Listed	Listed	Not Listed
n-alkyl dimethyl benzyl ammonium chloride	Not Listed	Not Listed	Not Listed

Chemical Name	EINECS	DSL	NDSL	TSCA
Isopropyl alcohol	X	X	-	X
Methyl Salicylate	X	X	-	X
n-alkyl dimethyl benzyl ammonium chloride	-	X	-	-

**CPRC**

This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all of the information required by the Controlled Product Regulations

## 16. OTHER INFORMATION

NFPA		HMIS	
Health	-	Health	1
Flammability	-	Flammability	3
Reactivity	-	Physical Hazard	0

**Prepared By**

Michael Katz, Regulatory Affairs Specialist

The information accumulated herein is believed to be accurate, but is not warranted to be, whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.