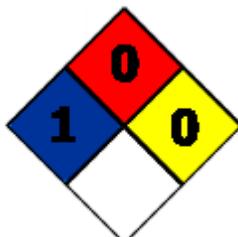


## MATERIAL SAFETY DATA SHEET

NFPA	HMIS	Personal Protective Equipment
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Health Hazard	1
Fire Hazard	0
Reactivity	0



See Section 8.

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<b>Product code:</b>	P3014
<b>Product Name:</b>	POLYQUATERNIUM-D11
<b>Chemical Name:</b>	No information available
<b>Synonyms:</b>	Poly[2-ethylidimethylammonioethyl methacrylate ethyl sulfate)-co-(1-vinylpyrrolidone)] 2-(Dimethylamino)ethyl methacrylate N-vinylpyrrolidone polymer compd. with diethyl sulfate
<b>Recommended use:</b>	No information available.
<b>CAS #:</b>	Mixture
<b>Formula:</b>	No information available
<b>RTECS #</b>	Not available
<b>CI#:</b>	Not available
<b>Supplier:</b>	Spectrum Chemicals and Laboratory Products, Inc. 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000
<b>Emergency Telephone Number:</b>	CHEMTREC: 1-800-424-9300
<b>Contact Person:</b>	Martin LaBenz (West Coast)
<b>Contact Person:</b>	Chris Terpak (East Coast)

### 2. HAZARDS IDENTIFICATION

<b>EMERGENCY OVERVIEW</b>			
May cause skin and eye irritation. May cause irritation of respiratory tract.			
<b>Odor:</b> No information available	<b>Physical state:</b> Liquid	<b>Appearance:</b> Viscous	<b>Color:</b> Light yellow

**OSHA Regulatory Status**

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 1910.1200)

## 2. HAZARDS IDENTIFICATION

### POTENTIAL HEALTH EFFECTS

**Principal Routes of Exposure:**

Ingestion. Inhalation.

**Acute Potential Health Effects:****Skin Contact:**

May cause skin irritation.

**Eye Contact:**

May cause eye irritation.

**Inhalation:**

May cause irritation of respiratory tract.

**Ingestion:**

No information available. Expected to be a low hazard.

**Chronic Potential Health Effects:****Component**

Water  
7732-18-5 (80)  
Polyquaternium-D11  
53633-54-8 (20)

**Carcinogen Status:**

No information available

No information available

**Target Organs:** No information available

**Teratogenic Effects:** No information available

**Mutagenic Effects:** No information available

**Aggravated Medical Conditions:** No information available

See Section 11 for additional Toxicological Information

### POTENTIAL ENVIRONMENTAL EFFECTS

No information available

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Water	7732-18-5	80
Polyquaternium-D11	53633-54-8	20

## 4. FIRST AID MEASURES

**General Advice:** Poison information centres in each State capital city can provide additional assistance for scheduled poisons (13 1126)

**Skin Contact:** Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention if irritation develops.

<b>Eye Contact:</b>	Flush eye with water for 15 minutes. Get medical attention if irritation occurs. If symptoms persist, call a physician.
<b>Inhalation:</b>	Move to fresh air. If breathing is difficult, give oxygen. In case of shortness of breath, give oxygen. Get medical attention.
<b>Ingestion:</b>	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary.
<b>Notes to Physician:</b>	Treat symptomatically

## 5. FIRE-FIGHTING MEASURES

### Flammable Properties

<b>Flashpoint (°C/°F):</b>	Not applicable. The product is not flammable.
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<b>Tested according to:</b>	Not applicable
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<b>Lower Explosion Limit (%):</b>	Not applicable
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<b>Upper Explosion Limit (%):</b>	Not applicable
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<b>Autoignition Temperature (°C/°F):</b>	Not applicable.
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<b>Suitable Extinguishing Media:</b>	The product is not flammable. If it is involved in a fire, extinguish the fire using an agent suitable for the type of surrounding fire.
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<b>Unsuitable Extinguishing Media:</b>	No information available.
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<b>Hazardous Combustion Products:</b>	Not applicable
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<b>Specific hazards:</b>	No information available.
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<b>Special Protective Equipment for Firefighters:</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear
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<b>Specific Methods:</b>	No information available.
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## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:**  
Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing.

**Environmental Precautions:**  
No information available.

**Methods for Cleaning Up:**  
Absorb spill with inert material (e.g. vermiculite, dry sand or earth), then place in a suitable chemical waste container. Clean contaminated surface thoroughly.

## 7. HANDLING AND STORAGE

## Handling

### Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials.

### Safe Handling Advice:

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe vapors or spray mist. Handle in accordance with good industrial hygiene and safety practice.

## Storage

### Technical Measures/Storage Conditions:

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

### Incompatible Products:

Oxidizing agents.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Engineering measures to reduce exposure:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.

### Personal Protective Equipment

**Eye protection:** Goggles.

**Skin and body protection:** Chemical resistant apron. Long sleeved clothing. Gloves.

**Respiratory protection:** Respiratory protection is not necessary for normal handling. Good room ventilation or use of local exhaust (fume hood) is sufficient. Use a vapor respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapor, inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent. .

**Hygiene measures:** Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

### National occupational exposure limits

#### United States

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
Water - 7732-18-5	None	None	None	None
Polyquaternium-D11 - 53633-54-8	None	None	None	None

#### Canada

Components	Alberta	British Columbia	Ontario	Quebec
Water 7732-18-5	None	None	None	None
Polyquaternium-D11 53633-54-8	None	None	None	None

#### Australia and Mexico

Components	Australia	Mexico
Water 7732-18-5	None	None

Polyquaternium-D11 53633-54-8	None	None
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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b> Liquid	<b>Appearance:</b> Viscous	<b>Color:</b> Light yellow
<b>Odor:</b> No information available	<b>Taste:</b> No information available	<b>Molecular/Formula weight:</b> No information available
<b>Flash point (°C):</b> Not applicable	<b>Lower Explosion Limit (%):</b> Not applicable	<b>Upper Explosion Limit (%):</b> Not applicable
<b>Autoignition Temperature (°C/°F):</b> No information available	<b>pH:</b> No information available	<b>Melting point/range(°C/°F):</b> No information available
<b>Boiling point/range(°C/°F):</b> 100 °C/212 °F	<b>Decomposition temperature(°C/°F):</b> No information available	<b>Specific gravity:</b> No information available
<b>Density (g/cm<sup>3</sup>):</b> 1.05 @ 20 °C	<b>Bulk density:</b> No information available	<b>Vapor pressure @ 20°C (kPa):</b> 2.31
<b>Evaporation rate:</b> No information available	<b>Vapor density:</b> No information available	<b>VOC content (g/L):</b> No information available
<b>Odor threshold (ppm):</b> No information available	<b>Partition coefficient (n-octanol/water):</b> No information available	<b>Miscibility:</b> Miscible with water
<b>Solubility:</b> No information available		

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable at normal conditions
<b>Conditions to avoid:</b>	Incompatible materials.
<b>Materials to avoid:</b>	Oxidising agents (strong).
<b>Hazardous decomposition products:</b>	No information available.
<b>Possibility of Hazardous Reactions:</b>	No information available
<b>Polymerization:</b>	Hazardous polymerisation does not occur
<b>Corrosivity:</b>	No information available
<b>Special Remarks on Corrosivity:</b>	No information available

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

### Component Information

Water - 7732-18-5

**LD50/oral/rat =**

> 90 mL/kg Oral LD50 Rat

**LD50/oral/mouse =**

No information available

**LD50/dermal/rabbit =**

No information available

**LD50/dermal/rat =** No information available

**LC50/inhalation/rat =**

No information available

**LC50/inhalation/mouse =**

No information available

**Other LD50 or LC50 information =**

No information available

Polyquaternium-D11 - 53633-54-8

**LD50/oral/rat =**

No information available

**LD50/oral/mouse =**

No information available

**LD50/dermal/rabbit =**

No information available

**LD50/dermal/rat =** No information available

**LC50/inhalation/rat =**

No information available

**LC50/inhalation/mouse =**

No information available

**Other LD50 or LC50 information =**

No information available

**Product Information**

**LC50/inhalation/rat =**

No information available

**LC50/Inhalation/mouse =** No information available

**LD50/dermal/rabbit =** No information available

**LD50/dermal/rat =** No information available

**LD50/oral/mouse =**

No information available

**LD50/oral/rat =**

No information available

**Local Effects**

**Skin irritation:**

May cause skin irritation.

**Eye irritation:**

Contact with eyes may cause irritation.

**Inhalation:**

May cause irritation of respiratory tract.

**Ingestion:**

Health injuries are not known or expected under normal use.

**Sensitization:**

No information available

**Chronic Toxicity**

**Chronic Toxicity** No information available

**Carcinogenic effects:** Not considered carcinogenic

Components	NTP	IARC	OSHA HCS - Carcinogens	ACGIH - Carcinogens	Australia - Prohibited Carcinogenic Substances	Australia - Notifiable Carcinogenic Substances
Water	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed
Polyquaternium-D11	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

**Mutagenic Effects:** No information available

**Reproductive Effects:** No information available

**Teratogenic Effects:** No information available

**Target Organs:** No information available

## 12. ECOLOGICAL INFORMATION

### ECOTOXICITY

**Toxicity to terrestrial and aquatic plants and animals:** No information available

**Ecotoxicity effects:** No data available.

**Aquatic toxicity:** No information available

**Mobility:** No information available

**Persistence and degradability:** No information available

**Bioaccumulative potential:** No information available

## 13. DISPOSAL CONSIDERATIONS

### Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

### Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Components	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Water	None	None	None	None
Polyquaternium-D11	None	None	None	None

## 14. TRANSPORT INFORMATION

### DOT

**UN-No:** Not regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Packing Group:** None  
**Subsidiary Risk:** Not applicable  
**Marine Pollutant:** No data available  
**ERG No:** No information available  
**DOT RQ (lbs):** No information available

**TDG (Canada)**  
**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Packing Group:** No information available  
**Subsidiary Risk:** No information available  
**Description:** No information available

**ADR**  
**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Packing Group:** No information available  
**Subsidiary Risk:** No information available  
**Classification Code:** No information available  
**Description:** No information available  
**CEFIC Tremcard No:** No information available

**IMO / IMDG**  
**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Packing Group:** No information available  
**Subsidiary Risk:** No information available  
**Description:** No information available  
**IMDG Page:** No information available  
**Marine Pollutant** No information available  
**MFAG:** No information available  
**Maximum Quantity:** No information available

**RID**  
**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Packing Group:** No information available  
**Subsidiary Risk:** No information available  
**Classification Code:** No information available  
**Description:** No information available

**ICAO**  
**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Packing Group:** No information available  
**Subsidiary Risk:** No information available  
**Description:** No information available

**IATA**  
**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Packing Group:** No information available  
**Subsidiary Risk:** No information available  
**Description:** No information available

## 15. REGULATORY INFORMATION

## International Inventories

Components	U.S. TSCA	Philippines (PICCS)	KOREA KECL	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Water	Present	Present	KE-35400	Not present	Present	Present	231-791-2
Polyquaternium-D11	XU	Not present	KE-24965	Not present	Present	Present	Not present

## U.S. Regulations

### California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

#### Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

#### Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
Water	Not Listed	Not Listed	Not Listed	Not Listed
Polyquaternium-D11	Not Listed	Not Listed	Not Listed	Not Listed

## CERCLA/SARA

Components	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting <i>de minimis</i>
Water	None	None	None	None	None
Polyquaternium-D11	None	None	None	None	None

## U.S. TSCA

Components	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Water	Not Applicable	Not Applicable
Polyquaternium-D11	Not Applicable	Not Applicable

## Canada

#### WHMIS hazard class:

Non-controlled

#### Water

Uncontrolled product according to WHMIS classification criteria

#### Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

## Inventory

Components	Canada (DSL)	Canada (NDSL)
Water	Present	Not Listed
Polyquaternium-D11	Present	Not Listed

