

FennoPol E 1416

Ref. /US/EN

Revision Date: 11/30/2016 Previ

Previous date: 11/18/2016

Print Date:04/20/2017

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

**Product information** 

Product name FennoPol E 1416

Recommended use of the chemical and restrictions on use

Use of the Substance/Mixture

Water treatment chemical **Recommended restrictions on use** 

Supplier's details

Kemira Chemicals, Inc. 1000 Parkwood Circle, Suite 500 30339 Atlanta USA

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HEAD OFFICE Kemira Oyj P.O. Box 330 00101 HELSINKI FINLAND Telephone +358108611 Telefax +358108621124

### **Emergency telephone number**

CHEMTREC: 1-800-424-9300

### 2. HAZARDS IDENTIFICATION

### Classification of the substance or mixture

Serious eye damage/eye irritation; Category 1; Causes serious eye damage.;

**GHS-Labelling** 



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Hazard pictograms	:		
Signal word	:	Danger	
Hazard statements	:	Hazard statemen H318	<b>ts:</b> Causes serious eye damage.
Precautionary statements	:	Prevention: P280 Response:	Wear protective gloves/ protective clothing/ eye protection/ face protection.
		-	338 + P310 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/ physician.

Hazardous components which must be listed on the label:

- 68439-50-9 Alcohols, C12-14, ethoxylated
- Alcohols, C12-16, ethoxylated 68551-12-2 •
- Alcohols, C10-16, ethoxylated 68002-97-1

Other hazards which do not result in classification

Advice; Contaminated surfaces will be extremely slippery.

Potential environmental effects; This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

### Substances /Mixtures



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Chemical nature

Anionic Polyacrylamide, emulsion.

### Hazardous components

Chemical Name	CAS-No.	Concentration[%]
distillates (petroleum), hydrotreated light	64742-47-8	22 - 25 %
Alcohols, C12-16, ethoxylated	68551-12-2	0 - 3.6 %
Alcohols, C12-14, ethoxylated	68439-50-9	0 - 3.6 %
Alcohols, C10-16, ethoxylated	68002-97-1	0 - 3.6 %
(Z)-Octadec-9- enylamine, ethoxylated	26635-93-8	1.2 - 1.6 %
Ammonium acetate	631-61-8	2 - 10 %

Components listed above that have a zero minimum and a common maximum range are interchangeably used components based on availability. Only one of these components is contained in the product up to the maximum amount noted.

### Further information

Ammonium acetate is not a GHS hazardous component in this product. It is listed because Ammonium Acetate is an EPA Reportable Quantity (RQ) spill hazard substance. See section 14 and 15.

### **4. FIRST AID MEASURES**

### Description of first aid measures

### **General advice**

Show this safety data sheet to the doctor in attendance.

Inhalation

Remove to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.

### Skin contact

Remove contaminated clothing and shoes. Wash off immediately with plenty of water. Wash contaminated clothing before re-use. If a person feels unwell or symptoms of skin irritation appear, consult a physician.

### Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain prompt medical consultation, preferably from an ophthalmologist.

### Ingestion



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If swallowed, call a poison control centre or doctor immediately. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person.

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

### **5. FIREFIGHTING MEASURES**

### Suitable extinguishing media

Water spray

Dry chemical

Carbon dioxide (CO2)

### Unsuitable extinguishing media

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

### Special hazards arising from the substance or mixture

No information available.

### Special protective actions for fire-fighters

In the event of fire, wear self-contained breathing apparatus. Use NIOSH/MSHA approved respiratory protection.

### **Further information**

In the event of fire, cool tanks with water spray.

### 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Where the exposure level is not known, wear approved, positive pressure, self-contained respirator. Where the exposure level is known, wear approved respirator suitable for the level of exposure. For personal protection see SDS section 8. Chemical resistant boots.

### **Environmental precautions**

Do not flush into surface water or sanitary sewer system.

### Methods and materials for containment and cleaning up

Sweep up to prevent slipping hazard. Soak up with inert absorbent material. Shovel into suitable container for disposal. After cleaning, flush away traces with water. Use detergent if needed.

### 7. HANDLING AND STORAGE

### Precautions for safe handling



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Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.

### Conditions for safe storage, including any incompatibilities

Do not freeze. Store at room temperature in the original container.

Materials for packaging

Unsuitable material: To avoid product degradation and equipment corrosion, do not use iron, copper or aluminium containers or equipment.

Materials to avoid:

No specific hazards.

Storage stability:

Storage temperature < 89.6 °F

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value	Form of	Control	Update	Basis
			exposure	parameters		
Distillates (petroleum), hydrotreated light	64742-47- 8		Vapour	197 ppm 1,200 mg/m <sup>3</sup>		
		TWA		200 mg/m <sup>3</sup>	2006-11-29	CA BC OEL

### Appropriate engineering controls

Avoid contact with skin and eyes. Do not breathe vapours, aerosols. Do not eat, drink or smoke when using this product. Ensure that eyewash stations and safety showers are close to the workstation location.

Ensure adequate ventilation.

Keep away from tobacco products. Keep away from food and drink. Wash hands before breaks and immediately after handling the product.

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

Where exposures are below the established exposure limit, no respiratory protection is required. Where exposures exceed the established exposure limit, use respiratory protection recommended for the material and level of exposure.

### Hand protection



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Glove material: Impervious gloves, Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

### Skin and body protection

Chemical resistant protective clothing. Chemical resistant boots.

### Eye protection

Wear eye protection/ face protection. Tightly fitting safety goggles or face-shield. Ensure that eyewash stations and safety showers are close to the workstation location.

### **Environmental exposure controls**

No data available

### 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties Physical state liquid, viscous liquid

Colour	white
Odour	hydrocarbon-like
pH Melting point/range Initial boiling point and boiling range Flash point	6 - 8 Melting point/freezing point -4 °C No data available > 215.6 °F (closed cup) (Pensky-Martens)
Evaporation rate	similar to water
Explosive properties: Lower explosion limit	
Upper explosion limit	No data available
Relative vapour density	No data available similar to water
Density Bulk density Solubility(ies):	9.03 lb/gal 1.084 kg/m³
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Water solubility Partition coefficient: n- octanol/water Decomposition tempera Viscosity: Viscosity, kinen Oxidizing potential Saturation in air (% vol. Surface tension	ature natic	Limited by viscosity. Not applicable No data available > 20.5 mm²/s ( 40 °C) The substance or mixture is not classified as oxidizing. No data available not determined	
10. STABILITY AND REACTIVITY			
Reactivity			
Chemical stability			
Possibility of hazardous reactions			
Hazardous reactions:	Hazardous p	polymerisation does not occur.	
Conditions to avoid			
Conditions to avoid:	Stable unde	r recommended storage conditions.	
Incompatible materials			
Materials to avoid:	No specific hazards.		
Hazardous decomposition products			
Hazardous decomposition products:	oxides of nit ammonia Sulphur oxic Carbon diox Carbon mor	des (SOx) ide (CO2) noxide (CO)	
Thermal decomposition:	Note: No da	ta available	

### **11. TOXICOLOGICAL INFORMATION**

Information on toxicological effects



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Acute oral toxicity	Remarks: estimated	
-	/Rat/> 5,000 mg/kg/LD50	
Acute oral toxicity	Distillates (petroleum), hydrotre />/Rat/5,000 mg/kg/LD50	eated light:
Acute inhalation toxicity	LC50/Rat/4 h/>/20 mg/lRemarks:	estimated
Acute inhalation toxicity	Distillates (petroleum), hydrotre LC50/Rat/4 h/>/5.2 mg/l	eated light:
Acute dermal toxicity	LD50/Rabbit/> /2,000 mg/kg	
	Remarks: estimated	
Acute dermal toxicity	<b>Distillates (petroleum), hydrotre</b> LD50/Rabbit/> /2,000 mg/kg	eated light:
Skin corrosion/irritation	/OECD Test Guideline 439/Read-	across (Analogy)
	Conclusion: No skin irritation Rabbit /Draize Test/Read-across (Analog	<b>(</b> yp
	Conclusion: No skin irritation	
Serious eye damage/eye irritation	/OECD Test Guideline 437/Read- Conclusion: Causes serious eye o	
Respiratory or skin sensitisat	•	
Skin sensitisation		
	Conclusion: Not sensitizing.	
Skin sensitisation	Distillates (petroleum), hydrotre	eated light:
Germ cell mutagenicity	Conclusion: This substance is not	classified as a sensitizer.
Genotoxicity in vitro	Ames test Conclusion: No data available	
Genotoxicity in vitro	Distillates (petroleum), hydrotre	eated light:
	Conclusion: No known effect.	

### Vomico SAFETY DATA SHEET

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Genotoxicity in vivo	Distillates (petroleum), hydrotreated ligh	t:
Carcinogenicity	Conclusion: not mutagenic	
Carcinogenicity	Distillates (petroleum), hydrotreated ligh	t:
Reproductive toxicity	Not classified by IARC or NTP.	
Toxicity for reproduction	Distillates (petroleum), hydrotreated ligh	t:
	Conclusion: Did not show teratogenic effect experiments.	ts in animal

### **12. ECOLOGICAL INFORMATION**

### **Ecotoxicity effects**

Aquatic toxicity Toxicity to other organisms

No data available Persistence and degradability

> Biological degradability: Modified Sturm Test/OECD Test Guideline 301B:

Not readily biodegradable.

### **Bioaccumulative potential**

Bioaccumulation is unlikely. Because of the high molecular weight of the polymer diffusion through biological membranes is very small.

Partition coefficient: n-octanol/water: Not applicable **Mobility in soil** 

Water solubility: Limited by viscosity. Surface tension: not determined

### Other adverse effects

No data available



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### **13. DISPOSAL CONSIDERATIONS**

 Product
 Recycling, recovery and reuse of materials is recommended if permitted by regulations. If recycling is not practicable, dispose of in compliance with local regulations. Incineration is recommended.

 EPA Hazardous Waste - NO.

**Contaminated packaging** Dispose of in compliance with local and national regulations.

### **14. TRANSPORT INFORMATION**

Land transport DOT: Description of the goods: Proper shipping name Class: Packaging group: DOT-Labels Reportable quantity	NA3082, Other regulated substances, liquid, n.o.s. (Ammonium acetate ) 9 III 9 Ammonium acetate Hazardous Substances/Reportable Quantities - DOT requirements specific to Hazardous Substances only apply if the quantity in one package equals or exceeds the reportable quantity. DOT/CFR: Product contains US EPA CERCLA and CWA Hazardous Substance: Ammonium Acetate (CAS# 631-61-8) having a Reportable Quantity (RQ) of 5000 pounds; (refer to SDS section 3 for amount in product to determine if spilled quantity of product exceeds the Reportable Quantity (RQ) triggering EPA Spill Incident Notification).
Sea transport	Not classified as dangerous in the meaning of transport regulations.
Air transport Special precautions for user	Not classified as dangerous in the meaning of transport regulations.

This product is regulated as a hazardous material according to the Department of Transportation only in bulk quantities greater than 49,999 lbs. (22,680 KG) per package.



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### **15. REGULATORY INFORMATION**

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

SARA Title III Section 311 Categories

Immediate (Acute) Health Effects: Yes; Delayed (Chronic) Health Effects: No; Fire Hazard: No: Sudden Release Of Pressure Hazard: No; **Reactivity Hazard: No;** 

### US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required

While this product does not contain any component CAS numbers directly listed under SARA 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA), it does contain ammonia chemical(s) that may be sources per EPA of aqueous ammonia, a reportable chemical. For our customer's use evaluation for reporting purposes we have listed these source chemical(s) below with their quantities when present at >1%. Please refer to EPA Guidance for Reporting Aqueous Ammonia, EPA 745-R-00-005.

Ammonium acetate (631-61-8)

CERCLA hazardous substances. 40 cfr part 302. May be subject to emergency release notification under sara title III.

### **CERCLA Hazardous substance (Reportable Quantities)**

Ammonium acetate (631-61-8) 5,000 lb

### **California Proposition 65**

Acrvlamide (79-06-1) < 0.01 % Remarks: This product contains a chemical or chemicals known to the state of California to

cause cancer, birth defects or other reproduction harm.

Other regulations : None.

Notification status

- All components of this product are included in the European Inventory of Existing Chemical Substances (EINECS) or are not required to be listed on EINECS.
- All components of this product are included in the United States TSCA Chemical Inventory or are not required to be



FennoPol E 1416 Ref. /US/EN Revision Date: 11/30/2016 Previous date: 11/18/2016 Print Date:04/20/2017 listed on the United States TSCA Chemical Inventory. : All components of this product are included in the Canada Domestic Substance List (DSL) or are not required to be listed on the Canada Domestic Substance List (DSL). : All components of this product are included in the Australian Inventory of Chemical Substances (AICS) or are not required to be listed on the Australian Inventory of Chemical Substances (AICS). : All components of this product are NOT included on the Japanese (ENCS) inventory. : All components of this product are NOT included on the Korean (ECL) inventory. : All components of this product are NOT included on the Philippine (PICCS) inventory. The product contains component(s) which is/are New Substance(s) registered by Kemira with the local authority. Only designated Kemira entity can import or authorize to import into China. Contact Kemira offices for more information. : All components of this product are included in the New Zealand

- inventory (NZIoC) or are not required to be listed on the New Zealand inventory(NZIoC).
- : All components of this product are NOT included on the Taiwan Toxic Chemical Substances Control Act Inventory.

### **16. OTHER INFORMATION**

### **HMIS Rating**

Health: 3 Flammability: 1 Reactivity: 0

### **NFPA** Rating

Health: 3 Fire: 1 Reactivity: 0

### **Training advice**

Read the safety data sheet before using the product. Further information

> 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





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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.

### Sources of key data used to compile the Safety Data Sheet

Regulations, databases, literature, own tests.

### Additions, Deletions, Revisions

Relevant changes have been marked with vertical lines.