

# SAFETY DATA SHEET

## ELOTEX HD4500

Version 1

Revision Date 05/20/2015

Print Date 05/21/2015

US / Z8

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : ELOTEX HD4500

Product Use Description : For industrial use only.

Chemical characterization : Copolymer based on vinyl acetate, vinyl versatate and acrylic monomer, with additives

Company : Akzo Nobel Functional Chemicals LLC  
Performance Additives  
281 Fields Lane  
Brewster NY 10509-2676  
USA

Telephone : +18452768230

Fax : +18452771404

E-mail address : RegulatoryAffairs@akzonobel.com

Emergency telephone : AkzoNobel: +31 57 06 79 211 CHEMTREC - USA: 1-800-424-9300 CANUTEC - CANADA: 1-613-996-6666

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

Appearance	powder
Color	white
Odor	mild
Hazard Summary	Risk of dust explosion.

#### GHS Classification

Acute aquatic toxicity, Category 2  
Chronic aquatic toxicity, Category 3

#### GHS Label element

Hazard Statements : H401 Toxic to aquatic life.  
H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:**  
P273 Avoid release to the environment.  
**Disposal:**  
P501 Dispose of contents/container in accordance with local regulation.

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## Potential Health Effects

- Inhalation : Product dust may be irritating to respiratory system.
- Skin : Product dust may be irritating to skin.
- Eyes : Product dust may be irritating to eyes.
- Ingestion : Gastrointestinal discomfort
- Aggravated Medical Condition : None known.
- Symptoms of Overexposure : No symptoms known or expected.

## Carcinogenicity:

- IARC** : No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- OSHA** : No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
- NTP** : No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous ingredients

Chemical Name	CAS-No.	Classification	Concentration [%]
Proprietary mineral filler			10 - 20
Methyl laurate	111-82-0	Aquatic Acute 1; H400 Aquatic Chronic 2; H411 M-Factor (Acute): 1	1 - 5

For the full text of the H-Statements mentioned in this Section, see Section 16.

### 4. FIRST AID MEASURES

- General advice : No hazards which require special first aid measures.  
Treat symptomatically.
- Inhalation : Remove to fresh air.  
Keep patient warm and at rest.  
Rinse nose and mouth with water.
- Skin contact : Remove contaminated clothing and shoes.  
Wash the skin immediately with soap and water.
- Eye contact : Rinse with plenty of water.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- Ingestion : Clean mouth with water and drink afterwards plenty of water.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

#### Notes to physician

- Symptoms : No symptoms known or expected.
- Risks : None known.
- Treatment : Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Water mist  
Foam
- Unsuitable extinguishing media : Carbon dioxide (CO<sub>2</sub>)  
High volume water jet
- Specific hazards during fire fighting / Specific hazards arising from the chemical : Do not allow run-off from fire fighting to enter drains or water courses.  
Risks of ignition followed by flame propagation or secondary

- explosions shall be prevented by avoiding accumulation of dust, e.g. on floors and ledges.
- Combustion products : No hazardous combustion products are known
- Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

See also Section 9. Physical and chemical properties: Safety data

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## 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Avoid dust formation.
- Environmental precautions : If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods for cleaning up /  
Methods for containment : Pick up and arrange disposal without creating dust.  
Sweep up and shovel.  
Keep in suitable, closed containers for disposal.
- Additional advice : For personal protection see section 8.

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## 7. HANDLING AND STORAGE

### Handling

- Advice on safe handling : For personal protection see section 8.  
Avoid creating dust.  
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
Dispose of rinse water in accordance with local and national regulations.  
Smoking, eating and drinking should be prohibited in the application area.
- Advice on protection against fire and explosion : Provide appropriate exhaust ventilation at places where dust is formed.  
No sparking tools should be used.  
Take measures to prevent the build up of electrostatic charge.
- Dust explosion class : St1

### Storage

- Requirements for storage areas and containers : Keep in a dry place.  
Store at room temperature in the original container.  
Keep container tightly closed.
- Advice on common storage : No special restrictions on storage with other products.
- Other data : No decomposition if stored and applied as directed.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

#### Ingredients with workplace control parameters

Ingredients	CAS-No.	Value	Control parameters	Update	Basis	Form of exposure
Proprietary mineral filler		TWA	5 mg/m3	2013-10-08	NIOSH REL	Respirable
	Further information	:	Occurs in nature as as limestone, chalk, marble, dolomite, aragonite, calcite & oyster shells. Calcium carbonate			
		TWA	10 mg/m3	2013-10-08	NIOSH REL	total
	Further information	:	Occurs in nature as as limestone, chalk, marble, dolomite, aragonite, calcite & oyster shells. Calcium carbonate			

STEL: Short term exposure limit

TWA: Time Weighted Average

Hazardous components without workplace control parameters

### Engineering measures

Provide appropriate exhaust ventilation at places where dust is formed.

### Personal protective equipment

- Eye/face protection : Tightly fitting safety goggles  
Safety glasses with side-shields conforming to EN166
- Hand protection : Glove material: For prolonged or repeated contact use protective gloves.  
: Glove material: Protective gloves complying with EN 374.
- Skin and body protection : Lab coat  
Remove and wash contaminated clothing before re-use.
- Respiratory protection : Half mask with a particle filter P2 (EN 143)
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.  
Wash hands before breaks and at the end of workday.  
When using do not eat, drink or smoke.

### Environmental exposure controls

- General advice : If the product contaminates rivers and lakes or drains inform respective authorities.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form : powder

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Color : white  
Odor : mild  
Odor Threshold : No data available

## Safety data

pH : 7.5 - 8.5 at 10 % solution  
Melting point/range : Not applicable  
Boiling point/boiling range : Not applicable  
Flash point : Not applicable  
Ignition temperature : > 200 °C  
Method: Auto-ignition of a dust cloud according to EN 50281-2-1  
Evaporation rate : Not applicable  
Flammability (solid, gas) : The product is not flammable.  
Lower explosion limit : 15,000 mg/m<sup>3</sup>  
Upper explosion limit : Not applicable  
Vapor pressure : Not applicable  
Relative vapor density : Not applicable  
Relative density : Not applicable  
Bulk density : 350 - 550 kg/m<sup>3</sup>  
Water solubility : dispersible  
Solubility in other solvents : Not applicable  
Partition coefficient: n-octanol/water : No data available  
Autoignition temperature : No data available  
Decomposition temperature : No data available  
Viscosity, dynamic : Not applicable  
Viscosity, kinematic : Not applicable  
Dust explosion class : St1  
Explosive properties : Dust may form explosive mixture in air.  
Oxidizing properties : Not classified as oxidizing.

This material safety datasheet only contains information relating to safety and does not replace any product information or product specification.

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## 10. STABILITY AND REACTIVITY

Conditions to avoid	: None known.
Materials to avoid	: None known.
Hazardous decomposition products	: No decomposition if stored and applied as directed.
Thermal decomposition	: No data available
Reactivity	: Stable under normal conditions.
Chemical stability	: Stable under recommended storage conditions.
Hazardous reactions	: Dust may form explosive mixture in air.

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## 11. TOXICOLOGICAL INFORMATION

### PRODUCT INFORMATION:

#### Toxicology Assessment

Further information : No further data available.

#### Test result

Acute oral toxicity : LD50: > 5,000 mg/kg  
Species: Rat  
Method: Calculation method

#### Carcinogenicity:

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

**OSHA** : No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP** : No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### TOXICOLOGY DATA FOR THE INGREDIENTS:

#### Test result

##### Component: Proprietary mineral filler

Acute oral toxicity : LD50: > 5,000 mg/kg  
Species: Rat

##### Component: Methyl laurate

Acute oral toxicity : LD50: > 2,000 mg/kg  
Species: Rat

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Read-across (Analogy)

Acute inhalation toxicity	: LC50 (Rat): > 5 mg/l Exposure time: 4 h Test atmosphere: aerosol Method: OECD Test Guideline 436
Skin irritation	: Result: slight irritation Method: OECD Test Guideline 404
Eye irritation	: Result: slight irritation Method: OECD Test Guideline 405
Sensitization	: Result: Does not cause skin sensitization. Method: OECD Test Guideline 406

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## 12. ECOLOGICAL INFORMATION

### PRODUCT INFORMATION:

#### Ecotoxicology Assessment

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Toxic to aquatic life.  
Harmful to aquatic life with long lasting effects.

#### Test result

#### Ecotoxicity effects

Toxicity to fish : No data available

#### Elimination information (persistence and degradability)

Bioaccumulation : Bioaccumulation is unlikely.

Mobility : No data available

Biodegradability : Not readily biodegradable.

#### Further information on ecology

Biochemical Oxygen Demand (BOD) : No data available

#### Hazardous to the ozone layer

Regulation : 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances  
Remarks : This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

### INGREDIENTS:



## Test result

### Component: Proprietary mineral filler

#### Ecotoxicity effects

Toxicity to fish : LC50: > 1,000 mg/l  
Exposure time: 96 h  
Species: Fish

Toxicity to daphnia and other : LC50: > 5,000 mg/l  
aquatic invertebrates : Exposure time: 48 h  
Species: Daphnia

#### Elimination information (persistence and degradability)

Bioaccumulation : Bioaccumulation is unlikely.

Biodegradability : Result: Not readily biodegradable.

### Component: Methyl laurate

#### Ecotoxicity effects

Toxicity to fish : LC50: > 100 mg/l  
Exposure time: 96 h  
Species: Leuciscus idus (Golden orfe)  
Method: ISO 7346/2

Toxicity to daphnia and other : EC50: > 0.1 - 1 mg/l  
aquatic invertebrates : Exposure time: 48 h  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 202

M-Factor : 1

Toxicity to daphnia and other : NOEC: > 0.01 - 1 mg/l  
aquatic invertebrates : Exposure time: 21 d  
(Chronic toxicity) : Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211

#### Elimination information (persistence and degradability)

Bioaccumulation : Bioaccumulation is unlikely.

Mobility : No data available

Biodegradability : Result: Readily biodegradable.  
Read-across (Analogy)

#### Further information on ecology

Biochemical Oxygen : No data available  
Demand (BOD)

## 13. DISPOSAL CONSIDERATIONS

- Product : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Hazardous waste  
Dispose of contents/container in accordance with local regulation.
- Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.

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## 14. TRANSPORT INFORMATION

### International Regulation

**ADR**

Not regulated as a dangerous good

**UNRTDG**

Not regulated as a dangerous good

**IATA-DGR**

Not regulated as a dangerous good

**IMDG-Code**

Not regulated as a dangerous good

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### Further information for transport

Not classified as dangerous in the meaning of transport regulations.

### Domestic regulation

**49 CFR**

Not regulated as a dangerous good

**TDG**

Not regulated as a dangerous good

**NOM-002-SCT**

Not regulated as a dangerous good

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## 15. REGULATORY INFORMATION

### Notification status

- EINECS : YES. On the inventory, or in compliance with the inventory  
AICS : YES. On the inventory, or in compliance with the inventory  
DSL : YES. On the inventory, or in compliance with the inventory  
IECSC : YES. On the inventory, or in compliance with the inventory  
ENCS : YES. On the inventory, or in compliance with the inventory  
KECI : YES. On the inventory, or in compliance with the inventory  
NZIoC : YES. On the inventory, or in compliance with the inventory  
PICCS : YES. On the inventory, or in compliance with the inventory  
CH INV : YES. The mixture contains a polymer. The monomers for this polymer have been notified.

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TSCA : YES. On the inventory, or in compliance with the inventory

For explanation of abbreviations, see section 16.

**TSCA list** : Not relevant

**OSHA Hazards** : Combustible dust, Moderate skin irritant, Moderate eye irritant

## **EPCRA - Emergency Planning and Community Right-to-Know**

### **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

### **SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : Acute Health Hazard

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

## **Clean Air Act**

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals subject to disclosure and listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

## **Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

## **California Prop. 65**

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

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## **16. OTHER INFORMATION**

### **Full text of H-Statements**

H400 : Very toxic to aquatic life.

H411 : Toxic to aquatic life with long lasting effects.

### **Further information**

**HMIS Classification** : Health Hazard: 1  
Flammability: 1  
Physical hazards: 0

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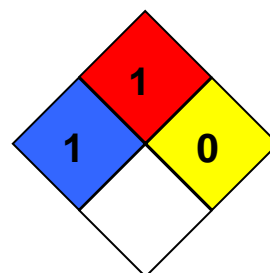
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## NFPA Classification

: Health Hazard: 1  
Fire Hazard: 1  
Reactivity Hazard: 0



## Notification status explanation

EINECS	European Inventory of Existing Commercial Chemical Substances (EINECS)
AICS	Australia Inventory of Chemical Substances (AICS)
DSL	Canadian Domestic Substances List (DSL)
IECSC	China. Inventory of Existing Chemical Substances in China (IECSC)
ENCS	Japan. ENCS - Existing and New Chemical Substances Inventory
KECI	Korea. Korean Existing Chemicals Inventory (KECI)
NZIoC	New Zealand. Inventory of Chemical Substances
PICCS	Philippines Inventory of Chemicals and Chemical Substances (PICCS)
CH INV	Switzerland. New notified substances and declared preparations
TSCA	United States TSCA Inventory

## Further information

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The information in this material safety data sheet should be provided to all who will use, handle, store, transport or otherwise be exposed to this product. The user must determine the appropriate measures that need to be implemented for the use and handling of this product in the context of the user's operations and use of this product. The information contained herein supersedes all previously issued bulletins on the subject matter covered. If the date on this document is more than three years old, call to make certain that this sheet is current. No warranty is made as to the product's merchantability or fitness for any particular purpose, or that any suggested use will not infringe any patent. User must determine for himself, by preliminary tests or otherwise, the suitability of this product for his purposes, including mixing with other products. Nothing contained herein shall be construed as granting or extending any license under any patent.

The information provided in this Material 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 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.