

# SAFETY DATA SHEET

## Levasil FO1440

Version 1

Revision Date 04/28/2015

Print Date 02/11/2016

US / Z8

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Levasil FO1440

Product Use Description : Inorganic binder, surface modifier and flocculating agent.

Chemical characterization : Amorphous Silica, aqueous colloidal solution.

Company : Akzo Nobel Pulp and Performance  
Chemicals Inc.  
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US 30067 Marietta  
United States

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Emergency telephone : US CHEMTREC +1-800-424-9300 Internat'l +1-703-741-5971  
(collect calls accepted) CANADA CANUTEC +1-613-996-6666

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

Appearance	liquid
Color	clear, cloudy
Odor	slight

#### GHS Classification

Not a hazardous substance or mixture.

#### GHS Label element

Not a hazardous substance or mixture.

#### Potential Health Effects

Inhalation : May cause respiratory tract irritation.

Skin : Causes mild skin irritation.

Eyes : May cause eye irritation.

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Ingestion : May cause irritation of the mucous membranes.

Aggravated Medical Condition : None known.

Symptoms of Overexposure : No information available.

## **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.

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

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous ingredients

Chemical Name	CAS-No.	Classification	Concentration [%]
silicon dioxide	7631-86-9		30 - 50

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### 4. FIRST AID MEASURES

- General advice : No hazards which require special first aid measures.
- Inhalation : If breathed in, move person into fresh air.  
If symptoms persist, call a physician.
- Skin contact : Remove contaminated clothing and shoes.  
Rinse with water.
- Eye contact : Rinse with plenty of water.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.
- Ingestion : Clean mouth with water and drink afterwards plenty of water.  
Never give anything by mouth to an unconscious person.

#### Notes to physician

- Symptoms : No information available.
- Risks : No information available.
- Treatment : Treat symptomatically.

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### 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Specific hazards during fire fighting / Specific hazards arising from the chemical : No hazards to be specially mentioned.
- 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 : Standard procedure for chemical fires.

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

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### 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : No conditions to be specially mentioned.

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- Environmental precautions : No special environmental precautions required.
- Methods for cleaning up /  
Methods for containment : Wipe up with absorbent material (e.g. cloth, fleece).  
Keep in suitable, closed containers for disposal.  
If liquid has been spilt in large quantities clean up promptly by  
scoop or vacuum.
- Additional advice : For personal protection see section 8.

## 7. HANDLING AND STORAGE

### Handling

- Advice on safe handling : For personal protection see section 8.  
No special handling advice required.
- Advice on protection against  
fire and explosion : Normal measures for preventive fire protection.

### Storage

- Requirements for storage  
areas and containers : Keep container tightly closed in a dry and well-ventilated  
place.  
Store in closed dark containers made of anti-corrosive  
material.
- Advice on common storage : No special restrictions on storage with other products.
- Minimum storage  
temperature: : Avoid temperatures below:  
5 °C (41 °F)
- Maximum storage  
temperature: : 35 °C (95 °F)
- 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
silicon dioxide	7631-86-9	TWA	20 Million particles per cubic foot	2012-07-01	OSHA Z-3	Dust
	Further information	:	a: Millions of particles per cubic foot of air, based on impinger samples counted by light-field techniques. mppcf X 35.3 = million particles per cubic meter = particles per c.c Silica			
		TWA	80 mg/m3 / %SiO2	2012-07-01	OSHA Z-3	Dust
	Further information	:	Silica			
		TWA	6 mg/m3	2013-10-08	NIOSH REL	
	Further information	:	Silica			

STEL: Short term exposure limit  
TWA: Time Weighted Average

### Engineering measures

Effective exhaust ventilation system

### Personal protective equipment

Eye/face protection : Safety glasses

Hand protection : Glove material: PVC  
: Glove material: Rubber gloves

Skin and body protection : disposable one-piece overall with integral hood

Respiratory protection : No personal respiratory protective equipment normally required.

Hygiene measures : General industrial hygiene practice.

### Environmental exposure controls

General advice : No special environmental precautions required.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form : liquid

Color : clear  
cloudy

Odor : slight

Odor Threshold : No data available

### Safety data

pH : 9 - 11

Melting point/range : 0 °C

Boiling point/boiling range : 100 °C

Flash point : Not applicable

Evaporation rate : No data available

Flammability (solid, gas) : The product is not flammable.

Lower explosion limit : Not applicable

Upper explosion limit : Not applicable

Vapor pressure : ca. 23 hPa at 20 °C

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Relative vapor density	: No data available
Relative density	: 1.050 - 1.400
Water solubility	: dispersible
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: Not applicable
Autoignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity, dynamic	: < 50 mPa.s
Viscosity, kinematic	: No data available
Explosive properties	: Not explosive
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	: Avoid allowing solution to dry as this can lead to a build-up of dust.  For safety, store below: 35 °C (95 °F)
Materials to avoid	: Mild steel Aluminum Copper
Hazardous decomposition products	: No hazardous decomposition products are known.
Thermal decomposition	: No data available
Reactivity	: Stable under normal conditions.
Chemical stability	: Stable under recommended storage conditions.
Hazardous reactions	: No dangerous reaction known under conditions of normal use.

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## 11. TOXICOLOGICAL INFORMATION

### PRODUCT INFORMATION:

#### Toxicology Assessment

Further information : Information given is based on data on the ingredients and the toxicology of similar products.

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## Test result

- Acute oral toxicity : LD50: > 5,000 mg/kg  
Species: Rat  
The value is estimated from tests on similar products.
- Sensitization : Result: Did not cause sensitization on laboratory animals.  
Method: (Magnusson-Kligman):  
The value is estimated from tests on similar products.
- Germ cell mutagenicity  
Genotoxicity in vitro : Ames test  
Result: negative  
Method: OECD Test Guideline 471  
The value is estimated from tests on similar products.

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

## TOXICOLOGY DATA FOR THE INGREDIENTS:

### Test result

#### Component: silicon dioxide

- Acute oral toxicity : LD50: > 10,000 mg/kg  
Species: Rat

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## 12. ECOLOGICAL INFORMATION

### PRODUCT INFORMATION:

#### Ecotoxicology Assessment

- Additional ecological information : None known.

### Test result

#### Ecotoxicity effects

- Toxicity to fish : LC50: > 5,000 mg/l  
Exposure time: 96 h  
Species: Danio rerio (zebra fish)  
The value is estimated from tests on similar products.

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Toxicity to daphnia and other aquatic invertebrates : EC50: 7,600 mg/l  
Exposure time: 48 h  
Species: Ceriodaphnia dubia (water flea)  
The value is estimated from tests on similar products.

Toxicity to algae : NOEC: 60 mg/l  
Exposure time: 48 h  
Species: Selenastrum capricornutum (green algae)  
The value is estimated from tests on similar products.

EC50: 120 mg/l  
Exposure time: 48 h  
Species: Selenastrum capricornutum (green algae)  
The value is estimated from tests on similar products.

EC10: 140 mg/l  
Exposure time: 48 h  
Species: Selenastrum capricornutum (green algae)  
The value is estimated from tests on similar products.

## Elimination information (persistence and degradability)

Bioaccumulation : Bioaccumulation is not expected.

Mobility : No test results  
Under extreme circumstances, transport from earth to water may take place.

Distribution among environmental compartments : Transport to air is not expected.

Biodegradability : Result: Not applicable  
inorganic

## 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:

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## 13. DISPOSAL CONSIDERATIONS

Contaminated packaging : Empty remaining contents.  
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

CH INV : YES. On the inventory, or in compliance with the inventory  
TSCA : YES. All chemical substances in this product are either listed on the TSCA Inventory or in compliance with a TSCA Inventory exemption.  
DSL : YES. All components of this product are on the Canadian DSL.  
AICS : YES. On the inventory, or in compliance with the inventory  
NZIoC : YES. On the inventory, or in compliance with the inventory  
ENCS : YES. On the inventory, or in compliance with the inventory  
ISHL : YES. On the inventory, or in compliance with the inventory  
KECI : YES. On the inventory, or in compliance with the inventory  
PICCS : YES. On the inventory, or in compliance with the inventory  
IECSC : YES. On the inventory, or in compliance with the inventory

For explanation of abbreviations, see section 16.

**TSCA list** : Not relevant  
**OSHA Hazards** : No OSHA Hazards

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

### CERCLA Reportable Quantity

Ingredients	CAS-No.	Component RQ (lbs)
Sodium hydroxide	1310-73-2	1000 lbs

### SARA 304 Extremely Hazardous Substances Reportable Quantity

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

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**SARA 311/312 Hazards** : No SARA Hazards

**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

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

Sodium hydroxide 1310-73-2

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

Sodium hydroxide 1310-73-2

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.

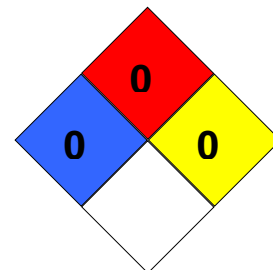
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## 16. OTHER INFORMATION

### Further information

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

**NFPA Classification** : Health Hazard: 0  
Fire Hazard: 0  
Reactivity Hazard: 0



### Notification status explanation

REACH 1907/2006 (EU)  
CH INV Switzerland. New notified substances and declared preparations

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TSCA	United States TSCA Inventory
DSL	Canadian Domestic Substances List (DSL)
AICS	Australia Inventory of Chemical Substances (AICS)
NZIoC	New Zealand. Inventory of Chemical Substances
ENCS	Japan. ENCS - Existing and New Chemical Substances Inventory
ISHL	Japan. ISHL - Inventory of Chemical Substances
KECI	Korea. Korean Existing Chemicals Inventory (KECI)
PICCS	Philippines Inventory of Chemicals and Chemical Substances (PICCS)
IECSC	China. Inventory of Existing Chemical Substances in China (IECSC)

## Further information

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