

# Safety Data Sheet

## Air Dry Additive

Revision Date: 06/28/2018

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** : Air Dry Additive  
**Chemical Family** : Styrene Monomer 10 - 15 PPM Inhib  
**Supplier or Repackaging Details**  
**Company** : Coast Fiber-Tek Products Ltd.  
**Address** : 1306 Boundary Road  
Burnaby, BC V5K 4T6  
Canada  
**Manufactured By** : LyondellBasell Chemical Company  
**Emergency telephone number:**  
Coast Fiber-Tek Products Ltd. : 604-294-8116  
CANUTEC: (613) 996-6666  
(604) 930-0650  
**Additional Information:** : Email: [dave@fibertek.ca](mailto:dave@fibertek.ca)  
SDS Requests: 1-604-294-8116  
SDS Requests Fax: 1-604-294-8754  
Website: [www.fibertek.ca](http://www.fibertek.ca)

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS Classification

Flammable liquids : Category 3  
Acute toxicity (Inhalation) : Category 4  
Skin irritation : Category 2  
Eye irritation : Category 2A  
Reproductive toxicity : Category 2  
Specific target organ toxicity : Category 3 (Respiratory system)  
- single exposure  
Specific target organ toxicity : Category 1 (Auditory system)  
- repeated exposure  
Aspiration hazard : Category 1

#### GHS Label element

Hazard pictograms :



Signal word : Danger

Hazard statements : H226 Flammable liquid and vapour.

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H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
H361 Suspected of damaging fertility or the unborn child.  
H372 Causes damage to organs (Auditory system) through prolonged or repeated exposure.

### Precautionary statements

#### : **Prevention:**

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 Keep container tightly closed.  
P240 Ground and bond container and receiving equipment.  
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
P242 Use non-sparking tools.  
P243 Take action to prevent static discharges.  
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

#### **Response:**

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P331 Do NOT induce vomiting.  
P332 + P313 If skin irritation occurs: Get medical advice/ attention.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

#### **Storage:**

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P403 + P235 Store in a well-ventilated place. Keep cool.  
P405 Store locked up.

#### **Disposal:**

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P501 Dispose of contents/ container to an approved waste disposal plant.

### Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

### Hazardous components

CAS-No.	Chemical Name	Weight %
100-42-5	Benzene, ethenyl-	90 - 100

Any Concentration shown as a range is due to batch variation.

Molecular formula : C<sub>6</sub>H<sub>5</sub>-CH=CH<sub>2</sub>

## SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled : Consult a physician after significant exposure.  
If unconscious place in recovery position and seek medical advice.  
Move to fresh air.
- In case of skin contact : If skin irritation persists, call a physician.  
If on skin, rinse well with water.  
If on clothes, remove clothes.  
Wash contaminated clothing before re-use.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Do NOT induce vomiting.
- Most important symptoms and effects, both acute and delayed : Causes skin and eye irritation.  
Risk of serious damage to the lungs (by aspiration).

## SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray

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	Foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	: High volume water jet
Specific hazards during fire-fighting	: Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	: Carbon oxides
Specific extinguishing methods	: Use a water spray to cool fully closed containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Further information	: Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments.
Special protective equipment for firefighters	: Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
Environmental precautions	: Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	: Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

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### SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	: Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Keep away from open flames, hot surfaces and sources of ignition.
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- Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapours/dust.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Take precautionary measures against static discharges.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Open drum carefully as content may be under pressure.  
Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : No smoking.  
Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Observe label precautions.  
Electrical installations / working materials must comply with the technological safety standards.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

CAS-No.	Components	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
100-42-5	Benzene, ethenyl-	TWA	20 ppm 85 mg/m <sup>3</sup>	CA AB OEL
		STEL	40 ppm 170 mg/m <sup>3</sup>	CA AB OEL
		TWA	50 ppm	CA BC OEL
		STEL	75 ppm	CA BC OEL
		TWA	35 ppm	CA ON OEL
		STEL	100 ppm	CA ON OEL
		TWAEV	50 ppm 213 mg/m <sup>3</sup>	CA QC OEL
		STEV	100 ppm 426 mg/m <sup>3</sup>	CA QC OEL

#### Personal protective equipment

- Respiratory protection : No personal respiratory protective equipment normally required.  
In the case of vapour formation use a respirator with an approved filter.

#### Hand protection

- Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

- Eye protection : Eye wash bottle with pure water

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	Tightly fitting safety goggles Wear face-shield and protective suit for abnormal processing problems.
Skin and body protection	: Impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Hygiene measures	: When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Colour	: colourless, yellow
Odour	: aromatic, sweet
Odour Threshold	: 0.017 ppm
pH	: No data available
Freezing Point (Freezing Point)	: -31 °C (-24 °F)
Boiling Point (Boiling point/boiling range)	: 145 °C (293 °F) (1,013 hPa)
Flash point	: 31 °C (88 °F) (1,013 hPa)
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Upper explosion limit	: 6.8 %(V)
Lower explosion limit	: 0.9 %(V)
Vapour pressure	: 5 mmHg @ 20 °C (68 °F)
Relative vapour density	: 3.6 @ 20 - 25 °C (68 - 77 °F)
Relative density	: No data available
Density	: No data available
Solubility(ies) Water solubility	: 0.32 g/l @ 25 °C (77 °F)

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Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: log Pow: 2.96 @ 25 °C (77 °F)
Auto-ignition temperature	: 490 °C 1,013 hPa
Thermal decomposition	: No data available
Viscosity	
Viscosity, dynamic	: 0.696 mPa.s @ 25 °C (77 °F)
Viscosity, kinematic	: 0.77 mm <sup>2</sup> /s @ 25 °C (77 °F)
Oxidizing properties	: The substance or mixture is not classified as oxidizing.

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### SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No hazards to be specially mentioned.
Conditions to avoid	: Keep away from heat, flame, sparks and other ignition sources. Exposure to light.
Incompatible materials	: Copper Oxidizing agents Strong oxidizing agents Peroxides Contamination polymer catalysts Alkali metals aluminum chloride Strong acids Strong bases Copper alloys metal halogenates Rubber
Hazardous decomposition products	: acrid smoke and fumes

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## SECTION 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

#### **Product:**

Acute inhalation toxicity : Acute toxicity estimate: 12 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

#### **Components:**

##### **100-42-5:**

Acute inhalation toxicity : LC50 (Rat): 12 mg/l  
Exposure time: 4 h  
Assessment: The component/mixture is moderately toxic after short term inhalation.

### Skin corrosion/irritation

#### **Product:**

Remarks: Irritating to skin.

#### **Components:**

##### **100-42-5:**

Species: Rabbit  
Result: Irritating to skin.

### Serious eye damage/eye irritation

#### **Product:**

Remarks: Severe eye irritation

#### **Components:**

##### **100-42-5:**

Species: Rabbit  
Result: Irritating to eyes.

### Germ cell mutagenicity

#### **Components:**

##### **100-42-5:**

Germ cell mutagenicity - Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

### Carcinogenicity

#### **Product:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.



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### **Components:**

#### **100-42-5:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

### **Reproductive toxicity**

### **Components:**

#### **100-42-5:**

Effects on fertility : Test Type: Three-generation study  
Species: Rat, male and female  
Application Route: oral  
Dose: 125 and 250 ppm in water  
General Toxicity - Parent: NOAEL: 125 ppm  
General Toxicity F1: NOAEL: 125 ppm  
Symptoms: Reduced embryonic survival

Effects on foetal development : Species: Rat  
Application Route: Inhalation Dose:  
0.519, 1.080, 2.146 mg/l Duration of  
Single Treatment: 6 h Frequency of  
Treatment: 7 days/week  
General Toxicity Maternal: NOAEC: 1.08 mg/L  
Developmental Toxicity: NOAEC: 1.08 mg/L

Teratogenicity - Assessment : Some evidence of adverse effects on development, based on animal experiments.

### **STOT - single exposure**

### **Components:**

#### **100-42-5:**

Target Organs: Respiratory system  
Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

### **STOT - repeated exposure**

### **Components:**

#### **100-42-5:**

Target Organs: Auditory system  
Assessment: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 1.

### **Aspiration toxicity**

### **Components:**

#### **100-42-5:**

May be fatal if swallowed and enters airways.

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## Further information

### **Product:**

Remarks: Solvents may degrease the skin.

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### **Components:**

##### **100-42-5:**

- Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 4.02 mg/l  
Exposure time: 96 h  
Test Type: flow-through test
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 4.7 mg/l  
Exposure time: 48 h  
Test Type: flow-through test
- Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (microalgae)): 4.9 mg/l  
Exposure time: 72 h  
Test Type: static test
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 1.01 mg/l  
Exposure time: 21 d
- Chronic aquatic toxicity- Assessment : Harmful to aquatic life with long lasting effects.

### **Persistence and degradability**

No data available

### **Bioaccumulative potential**

No data available

### **Mobility in soil**

No data available

### **Other adverse effects**

#### **Product:**

Additional ecological information : No data available

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### SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

- Waste from residues : Dispose of in accordance with all applicable local, state and federal regulations.  
For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact NEXEO's Environmental Services Group at 800-637-7922.
- Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

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### SECTION 14. TRANSPORT INFORMATION

#### TDG (Transportation of Dangerous Goods):

UN2055, STYRENE MONOMER, STABILIZED, 3, III

#### IATA (International Air Transport Association):

UN2055, Styrene monomer, stabilized, 3, III

#### IMDG (International Maritime Dangerous Goods):

UN2055, STYRENE MONOMER, STABILIZED, 3, III, Flash Point:31 °C(88 °F)

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### SECTION 15. REGULATORY INFORMATION

- WHMIS Classification** : B2: Flammable liquid  
D2A: Very Toxic Material Causing Other Toxic Effects  
D2B: Toxic Material Causing Other Toxic Effects

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

#### The components of this product are reported in the following inventories:

- DSL : All components of this product are on the Canadian DSL
- AICS : On the inventory, or in compliance with the inventory
- NZIoC : On the inventory, or in compliance with the inventory
- ENCS : On the inventory, or in compliance with the inventory
- KECI : On the inventory, or in compliance with the inventory
- PHIL : On the inventory, or in compliance with the inventory
- IECSC : On the inventory, or in compliance with the inventory

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## SECTION 16. OTHER INFORMATION

The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by NEXEO™ Solutions EHS Product Safety Department (1-855-429-2661) MSDS@nexeosolutions.com.

**Revision Date** : 05/26/2017

**Legacy SDS:** : R0000009

**Material number:**

16117463, 16117462, 16045753, 554032, 55665, 88426, 71292, 166708, 55251, 71935, 22000, 22001, 20013, 20012, 20011, 20010

Key or legend to abbreviations and acronyms used in the safety data sheet			
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and	TSCA	Toxic Substance Control Act

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	New Chemical Substances		
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50			Lethal Concentration 50%