

# Safety Data Sheet

## ALDOTHINNER I for Polyurethane

SDS Revision Date:

04/04/2018



### 1. Identification

#### 1.1. Product identifier

**Product Identity** ALDOTHINNER I for Polyurethane

**Alternate Names** ALDOTHINNER I for Polyurethane

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Intended use** For professional use only. See Technical Data Sheet.

**Application Method** See Technical Data Sheet.

#### 1.3. Details of the supplier of the safety data sheet

**Company Name** Aldo Products Company, Inc.  
1320 Litton Drive  
Salisbury, NC 28147

#### Emergency

**24 hour Emergency Telephone No.** 800-535-5053

**Customer Service: Aldo Products Company, Inc.** 704-932-3054

### 2. Hazard(s) identification

#### 2.1. Classification of the substance or mixture

Acute Tox. 4;H332	Harmful if inhaled.
Skin Irrit. 2;H315	Causes skin irritation.
Eye Irrit. 2;H319	Causes serious eye irritation.
Skin Sens. 1;H317	May cause an allergic skin reaction.
Resp. Sens. 1;H334	May cause allergy or asthma symptoms of breathing difficulties if inhaled.
Carc. 2;H351	Suspected of causing cancer.
STOT SE 3;H335	May cause respiratory irritation.
STOT RE 2;H373	May cause damage to organs through prolonged or repeated exposure. Specific Target Organs: ( hearing organs)
Flam. Liq. 3;H225	Highly Flammable liquid and vapor.

#### 2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.



**Signal word: Danger****Hazard statements**

- H225 Highly flammable liquid and vapor.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H334 May cause allergic or asthmatic symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H351 Suspected of causing cancer.
- H373 May cause damage to organs through prolonged or repeated exposure.

**[Prevention]:**

- P210 Keep away from heat / sparks / open flames / hot surfaces - No smoking.
- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P261 Avoid breathing dust / fume / gas / mist / vapors / spray.
- P264 Wash thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P280 Wear protective gloves / eye protection / face protection.

**[Response]:**

- P302+352 IF ON SKIN: Wash with plenty of soap and water.
- P304+312 IF INHALED: Call a POISON CENTER or doctor / physician if you feel unwell.
- P305+351+338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
- P308+313 IF exposed or concerned: Get medical advice / attention.
- P314 Get Medical advice / attention if you feel unwell.
- P321 Specific treatment (see information on this label).
- P333+313 If skin irritation or a rash occurs: Get medical advice / attention.
- P337+313 If eye irritation persists: Get medical advice / attention.
- P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P341 If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P342+311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor / physician.
- P362 Take off contaminated clothing and wash before reuse.
- P363 Wash contaminated clothing before reuse.

**[Storage]:**

- P403+233 Store in a well ventilated place. Keep container tightly closed.
- P405 Store locked up.

**[Disposal]:**

- P501 Dispose of contents / container in accordance with local / national regulations.

### 3. Composition/information on Ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Xylene CAS Number: 0001330-20-7	80 - 100	Flam. Liq. 3;H226 Acute Tox. 4;H332 Acute Tox. 4;H312 Skin Irrit. 2;H315	[1][2]
Ethyl benzene CAS Number: 0000100-41-4	10 - 20	Flam. Liq. 3;H226 Acute Tox. 4;H332 Acute Tox. 4;H312 Skin Irrit. 2;H315	[1][2]
Methyl benzene CAS Number: 0000108-88-3	0.01 - 1	Flam. Liq. 3;H226 Acute Tox. 4;H332 Acute Tox. 4;H312 Skin Irrit. 2;H315	[1][2]

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

### 4. First aid measures

#### 4.1. Description of first aid measures

<b>General</b>	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
<b>Inhalation</b>	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
<b>Eyes</b>	Flush with water initially and remove contact lenses. Continue to flush eyes with large amounts of water for 15 minutes. Get medical attention immediately.
<b>Skin</b>	Remove contaminated clothing and shoes/boots. Wash affected area with large amounts of soap and water. Get medical attention immediately.
<b>Ingestion</b>	If swallowed give two glasses of water to drink. Do not induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.

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

<b>Overview</b>	Possible cancer hazard. Contains an ingredient which may cause cancer based on animal data (See Section 3 and Section 15 for each ingredient). Risk of cancer depends on duration and level of exposure. Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.  Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage. See section 2 for further details.
<b>Inhalation</b>	Harmful if inhaled. May cause respiratory irritation. May cause allergy or asthma symptoms of breathing difficulties if inhaled.
<b>Eyes</b>	Causes serious eye irritation.
<b>Skin</b>	May cause an allergic skin reaction. Causes skin irritation.

## 5. Fire-fighting measures

### 5.1. Extinguishing media

Water, carbon dioxide, foam or dry powder.

### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: Will not occur if properly handled and stored.

Avoid breathing dust / fume / gas / mist / vapors / spray.

### 5.3. Advice for fire-fighters

Use water spray to cool non-involved containers.

Wear SCBA with full-face piece operating in a positive pressure demand mode and full protective gear.

This product is considered combustible and is a fire hazard. During a fire isocyanate vapors and other irritating gases may be generated by thermal decomposition or combustion. At temperatures above 400°F, polymeric MDI can polymerize and decompose which can cause pressure build-up in closed containers. Use cold water to cool fire-exposed containers.

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## 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

### 6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

### 6.3. Methods and material for containment and cleaning up

Shut off ignition sources including electrical equipment and flames. Contain spilled material. Absorb spills with inert material such as vermiculite, dry sand or earth. Place in a closed container but do not seal. Ventilate area to remove vapors.

## 7. Handling and storage

### 7.1. Precautions for safe handling

Avoid prolonged or repeated skin contact. Avoid breathing aerosols, spray mists, and heated vapors. Use only in well ventilated area. Use good personal and industrial hygiene practices.

Keep container closed after each use.

See section 2 for further details. - [Prevention]:

### 7.2. Conditions for safe storage, including any incompatibilities

Handle containers carefully to prevent damage and spillage.

Precautions should be taken to minimize exposure to atmospheric humidity or water as carbon dioxide may be formed which, in closed containers can result in pressurization. Care should be taken when re-opening partly used containers.

Naked flames and smoking should not be permitted in storage areas. It is recommended that fork lift trucks and

electrical equipment are protected to the appropriate standard.

Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this preparation is used.

Examination of lung function should be carried out on a regular basis on persons applying this preparation.

Incompatible materials: Contact with water will cause this product to cure. Incompatible with acids, bases, and oxidizers

Recommended storage range is less than 90°F.

See section 2 for further details. - [Storage]:

### 7.3. Specific end use(s)

No data available.

## 8. Exposure controls and personal protection

### 8.1. Control Parameters

#### Exposure

CAS No.	Ingredient	Source	Value
0000100-41-4	Ethyl Benzene	OSHA	TWA 100 ppm (435 mg/m <sup>3</sup> ) STEL 125 ppm
		ACGIH	TWA: 20 ppm <sup>2B</sup> , Revised 2011,
		NIOSH	TWA 100 ppm (435 mg/m <sup>3</sup> ) ST 125 ppm (545 mg/m <sup>3</sup> )
0000108-88-3	Methyl Benzene	OSHA	TWA 200 ppm
		ACGIH	TWA: 20 ppm
		NIOSH	TWA 100 ppm (435 mg/m <sup>3</sup> ) ST 150 ppm (545 mg/m <sup>3</sup> )
0001330-20-7	Xylene	OSHA	STEL 150 ppm
		ACGIH	TWA: 100 ppm STEL: 150 ppm

### 8.2. Exposure controls

#### Respiratory

If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.

#### Eyes

Chemical splash goggles (ANSI Z-87.1 or approved equivalent) and/or face shield. Have an eye wash station available.

#### Skin

Avoid all skin contact by covering as much of the exposed skin area as possible with appropriate clothing. Wear impervious gloves.

#### Engineering Controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

#### Other Work Practices

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

## 9. Physical and chemical properties

<b>Appearance</b>	Clear Liquid
<b>Odor</b>	Not available
<b>Odor threshold</b>	Not Measured
<b>pH</b>	~7 @ 68°F
<b>Melting point / freezing point</b>	Not available
<b>Initial boiling point and boiling range</b>	~275°F
<b>Flash Point</b>	80°F
<b>Evaporation rate (Ether = 1)</b>	Slower than ether
<b>Flammability (solid, gas)</b>	Not Applicable
<b>Upper/lower flammability or explosive limits</b>	<b>Lower Explosive Limit: 1%</b> <b>Upper Explosive Limit: 7%</b>
<b>Vapor pressure (Pa)</b>	Not established
<b>Vapor Density</b>	Not available
<b>Specific Gravity</b>	Not available
<b>Solubility in Water</b>	Nil, reacts with water
<b>Partition coefficient n-octanol/water (Log Kow)</b>	Not Measured
<b>Auto-ignition temperature</b>	432 – 530 °C
<b>Decomposition temperature</b>	Not available
<b>Viscosity (cSt)</b>	Not available
<b>VOC Content</b>	100% (by weight)
<b>Density</b>	~7.2 pounds per gallon
<b>% Volatile</b>	100% (by weight)

### 9.2. Other information

No other relevant information.

## 10. Stability and reactivity

### 10.1. Reactivity

May polymerize.

### 10.2. Chemical stability

Stable under normal circumstances.

### 10.3. Possibility of hazardous reactions

Vapors may form explosive mixture with air.

### 10.4. Conditions to avoid

Avoid heat, sparks, open flame and other ignition sources. Avoid temperatures exceeding the flash point.

### 10.5. Incompatible materials

Incompatible with acids, bases, and oxidizers.

### 10.6. Hazardous decomposition products

Will not occur if properly handled and stored.

## 11. Toxicological information

### Acute toxicity

Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage.

Based on the properties of the isocyanate content of this product, respiratory exposure may cause acute irritation and/or sensitization of the respiratory system resulting in asthmatic symptoms, wheezing and a tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to airborne concentrations of isocyanates well below the occupational exposure limit. Repeated exposure may lead to permanent respiratory disability.

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Xylene - (1330-20-7)	4,299.00, Rat - Category: 5	1,548.00, Rabbit - Category: 4	No data available	20.00, Rat - Category: NA	5,000.00, Rat - Category: 4
Ethyl Benzene - (100-41-4)	3,500.00, Rat - Category: 5	15,433.00, Rabbit - Category: NA	17.20, Rat - Category: 4	No data available	4,000.00, Rat - Category: NA
Methyl Benzene - (108-88-3)	3,500.00, Rat - Category: 5	15,433.00, Rabbit - Category: NA	17.20, Rat - Category: 4	No data available	4,000.00, Rat - Category: NA

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

### Carcinogen Data

CAS No.	Ingredient	Source	Value
0000100-41-4	Ethyl Benzene	IARC	Group 2b: Yes
0000108-88-3	Methyl Benzene	IARC	Group 2b: Yes
0001330-20-7	Xylene	IARC	Group 3: Yes

## 12. Ecological information

### 12.1. Toxicity

See Section 3 for chemical specific data.

### Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Xylene - (1330-20-7)	3.30, <i>Oncorhynchus mykiss</i>	8.50, <i>Palaemonetes pugio</i>	100.00 (72 hr), Chlorococcales
Ethyl Benzene - (100-41-4)	4.20, <i>Oncorhynchus kisutch</i>	2.93, <i>Daphnia magna</i>	Not available

Methyl Benzene - (108-88-3)	8.11, Oncorhynchus kisutch	7.5, Daphnia magna	3.60 (96 hr), Pseudokirchneriella subcapitata
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**12.2. Persistence and degradability**

There is no data available on the preparation itself.

**12.3. Bioaccumulative potential**

Not Measured

**12.4. Mobility in soil**

No data available.

**12.5. Results of PBT and vPvB assessment**

This product contains no PBT/vPvB chemicals.

**12.6. Other adverse effects**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Potentially toxic to aquatic life.

## 13. Disposal considerations

**13.1. Waste treatment methods**

Observe all federal, state and local regulations when disposing of this substance.

## 14. Transport information

	<b>DOT (Domestic Surface Transportation)</b>	<b>IMO / IMDG (Ocean Transportation)</b>	<b>ICAO/IATA</b>
<b>14.1. UN number</b>	UN1307	UN1307	UN1307
<b>14.2. UN proper shipping name</b>	Xylenes	Xylenes	Xylenes
<b>14.3. Transport hazard class(es)</b>	<b>DOT Hazard Class: 3</b>	<b>IMDG: 3 Sub Class: Not Applicable</b>	<b>Air Class: 3</b>
<b>14.4. Packing group</b>	III	III	III

**14.5. Environmental hazards**

**IMDG** Marine Pollutant: Yes

**14.6. Special precautions for user**

No further information

## 15. Regulatory information

**Regulatory Overview**

The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

**U.S. Federal Regulations****Toxic Substance Control Act (TSCA)**

All components of this material are either listed or exempt from listing on the TSCA Inventory.



**WHMIS Classification** D2A

**US EPA Tier II Hazards** **Fire:** Yes

**Sudden Release of Pressure:** No  
**Reactive:** No  
**Immediate (Acute):** Yes  
**Delayed (Chronic):** Yes

**EPCRA 311/312  
 Chemicals and  
 RQs (lbs):**

Ethyl Benzene ( 1,000.00)  
 Methyl Benzene ( 1,000.00)  
 Xylene ( 100.00)

**EPCRA 302 Extremely Hazardous:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Xylene	1330-20-7	80 - 100	1.0
Ethyl benzene	100-41-4	10 - 20	0.1
Methyl benzene	108-88-3	0.01 - 1	0.1

**SARA 311/312 Hazard**

**Categories**

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

**CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Xylene 1330-20-7	100 lb			X
Ethyl benzene 100-41-4	1000 lb	X	X	X
Methyl benzene 108-88-3	1000 lb	X	X	X

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Xylene 1330-20-7	100 lb		RQ= 100 lb final RQ RQ= 45.4 kg final RQ
Ethyl benzene 100-41-4	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ
Methyl benzene 108-88-3	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

### US State Regulations

#### California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical Name	California Prop. 65
Ethyl benzene - 100-41-4	Carcinogen

#### New Jersey RTK Substances (>1%):

Ethyl Benzene  
Xylene

#### Pennsylvania RTK Substances (>1%):

Ethyl Benzene  
Xylene

### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Xylene 1330-20-7	X	X	X	X	X
Ethyl benzene 100-41-4	X	X	X	X	X
Methyl benzene 108-88-3	X	X	X	X	X

### International Regulations

#### **Mexico**

##### **National occupational exposure limits**

Component	Exposure Limits
Xylene 1330-20-7 ( 80 - 100 )	Mexico: TWA= 100 ppm Mexico: TWA= 435 mg/m <sup>3</sup> Mexico: STEL= 150 ppm Mexico: STEL= 655 mg/m <sup>3</sup>
Ethyl benzene 100-41-4 ( 10 - 20 )	Mexico: TWA 100 ppm Mexico: TWA 435 mg/m <sup>3</sup> Mexico: STEL 125 ppm Mexico: STEL 545 mg/m <sup>3</sup>
Ethyl benzene 108-88-3 ( 0.01 - 1 )	Mexico: TWA 100 ppm Mexico: TWA 435 mg/m <sup>3</sup> Mexico: STEL 125 ppm Mexico: STEL 545 mg/m <sup>3</sup>

*Mexico - Occupational Exposure Limits - Carcinogens*

#### **Canada**

**WHMIS Hazard Class**

D2A - Very toxic materials

D2B - Toxic materials

B2 - Flammable liquid

**16. Other information**

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

**This is the latest version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.**

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