

# Safety Data Sheet



## Martrex, Inc.

### Section 1: Chemical Product and Company Information

**Product name:** D-Xylose

**Supplier/ Further Information:** Martrex, Inc.

1107 Hazeltine Blvd,  
Suite 535 MD 27,  
Chaska, Minnesota 55318

**Phone:** 952/933-5000

**Toll Free:** 800/328-3627

**FAX:** 952/933-1889

**Web:** [www.martrexinc.com](http://www.martrexinc.com)

**EPA Registration Number:** n/a

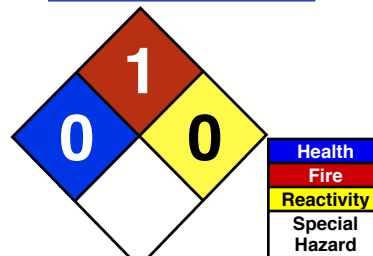
**CAS#:** 58-86-6

**Chemical Name:** D-Xylose

**Synonyms:** Wood sugar; (+)-Xylose

**Chemical Family:**

**SDS Number:** n/a



For Rating Explanation see Section 16

**24 Hour Emergency Phone - Chemtrec Transport: 1-800-424-9300; Medical: 1-800-441-3637**

### Section 2: Hazards Identification

**Emergency Overview:**

**Caution!** May cause respiratory tract irritation. May cause skin irritation. May cause eye irritation.

This is expected to be a low hazard for usual industrial handling

**GHS Classification:**

Not a hazardous substance or mixture.

**Potential Health Effects:**

**Primary Routes of Exposure / Entry:** Inhalation (breathing), eye contact, skin contact. (Ingestion is unlikely)

**Target Organs:** None known

**Acute Exposure Symptoms**

**Inhalation:** May cause respiratory tract irritation. Low hazard for usual industrial handling.

**Eye Contact:** May cause eye irritation.

**Skin Contact:** May cause skin irritation.

**Ingestion:** May cause gastrointestinal irritation with nausea, vomiting and diarrhea. Low hazard for usual industrial handling.

**Chronic Exposure Symptoms:** no information found

**Medical Conditions Aggravated By Long-Term Exposure:** no data

### Section 3: Composition/Information on Ingredients

Non Hazardous Components	CAS#	%	OSHA PEL	OSHA STEL	OSHA CEIL
D-Xylose	58-86-6	>98%	not listed	not listed	not listed
	OTHER LIMITS	RTECS#	ACGIH TLV	ACGIH STEL	ACGIH CEIL
	See Section 15	not listed	not listed	not listed	not listed

### Section 4: First Aid Measures

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. **Get medical aid.**

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**Eye Exposure:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. **Get medical aid.**

**Skin Exposure:** In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. **Get medical aid if irritation develops and persists.** Wash clothing before reuse.

**Ingestion:** If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. **Get medical aid.**

**NOTE TO THE PHYSICIAN:** Treat symptomatically and supportively.

## Section 5: Fire Fighting Measures

### Flammability Classification:

NFPA= (estimated) Health: 0; Flammability: 1; Instability: 0

DOT= see Section 14

**A Flash Point (COC):** Not applicable.

**Auto-ignition Temperature:** Not applicable.

**Lower explosion limit (LEL):** Not applicable.

**Upper explosion limit (UEL):** Not applicable.

**Extinguishing Media:** In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam. Use agent most appropriate to extinguish fire.

**Unusual Fire and Explosive Hazards:** This material in sufficient quantity and reduced particle size is capable of creating a dust explosion.

**Hazardous Decomposition Materials:** Highly toxic gases may be generated by thermal decomposition or combustion.

**Special Procedures:** no other data

**Fire-Fighting Instructions:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

**Personal Protective Equipment:** Wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

**CAUTION:** no data

## Section 6: Accidental Release Measures

**Spill and Leak Procedures:** Use proper personal protective equipment as indicated in Section 8.

**Cleanup and Disposal of Spill:** Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

**Environmental and Regulatory Reporting:** Follow local/state/national regulations.

## Section 7: Handling and Storage

**Minimum/maximum Storage Temperature:** no data

**Handling:** Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Wash clothing before reuse. Avoid breathing dust.

**Storage:** Store in a cool, dry place. Store in a tightly closed container.

**REGULATORY REQUIREMENTS:** See Section 8 for employee exposure controls and Section 15 for other regulatory requirements.

## Section 8: Exposure Controls / Personal Protection

**Ventilation Protection:** Use adequate ventilation to keep airborne concentrations low.

**Exposure Limits: OSHA/ACGIH:** not listed

**Respiratory Protection (specify type):** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

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**Eye Protection:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166

**Skin Protection:** Wear appropriate gloves to prevent skin exposure.

**Other Protective Clothing and Equipment:** Wear appropriate protective clothing to minimize contact with skin.

**Hygienic Work Practices:** Wash hands and other exposed areas with water before eating, drinking, smoking and when leaving work. Keep the working area as clean and tidy as possible.

## Section 9: Physical and Chemical Properties

**Chemical Name:** D-xylose  
**Physical State:** Solid  
**Color and Appearance:** White crystalline powder.  
**Odor:** None reported  
**Odor Threshold:** no data  
**pH (in water):** no data  
**Specific Gravity @ 20C:** 1.525  
**Vapor Pressure,** not applicable  
**Vapor Density:** (Air=1): not applicable  
**Density:** no data  
**Volatiles by Volume:** no data  
**Boiling Point:** no data  
**A Flash Point (COC):** dust explosion hazard...see section 5  
**Softening Point:** no data  
**Freezing/Melting Point:** 144 – 155°C  
**Evaporation Rate:** not applicable  
**Solubility in water:** soluble  
**Other Solubilities:** alcohol  
**Chemical Formula:** C<sub>5</sub>H<sub>10</sub>O<sub>5</sub>  
**Formula Wt:** 150.13

## Section 10: Stability and Reactivity

**Chemical Stability:** Stable X Unstable \_\_\_\_\_  
**Hazardous Polymerization:** Has not been reported.  
**Conditions to Avoid:** Avoid dust generation. Hazard of dust explosions.  
**Chemical Incompatibility:** Strong oxidizing agents.  
**Hazardous Decomposition Products:** Carbon monoxide, irritating and toxic fumes and gases, Carbon dioxide.

## Section 11: Toxicological Information

**RTECS#:**  
**CAS#** 58-86-6  
**LD<sub>50</sub>/LC<sub>50</sub>**  
**Oral LD<sub>50</sub> (mouse)=** 23 gm/kg  
**Carcinogenicity Data:** No evidence found.  
**Epidemiology:** No information available.  
**Teratological Data:** No information available.  
**Reproductive Data:** No information available.  
**Mutagenicity Data:** No information available.  
**Neurotoxicity Data:** No information available.  
**Other Studies:** No information available

**Section 12: Ecological Information**

**Eco-acute Toxicity:** no data

**Environmental Fate:** no data

**Section 13: Disposal Considerations**

**Disposal Procedures:** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**Section 14: Transport Information**

**USA:** Not regulated as a hazardous material.

**Section 15: Regulatory Information****US FEDERAL****TSCA**

CAS# 58-86-6 is listed on the TSCA inventory.

**Health & Safety Reporting List**

None of the chemicals are on the Health & Safety Reporting List.

**Chemical Test Rules**

None of the chemicals in this product are under a Chemical Test Rule.

**Section 12b**

None of the chemicals are listed under TSCA Section 12b.

**TSCA Significant New Use Rule**

None of the chemicals in this material have a SNUR under TSCA.

**CERCLA Hazardous Substances and corresponding RQs**

None of the chemicals in this material have an RQ.

**SARA Section 302 Extremely Hazardous Substances**

None of the chemicals in this product have a TPQ.

**Section 313:** No chemicals are reportable under Section 313.

**Clean Air Act:**

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depleters.

This material does not contain any Class 2 Ozone depleters.

**Clean Water Act:**

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

**OSHA:**

None of the chemicals in this product are considered highly hazardous by OSHA.

**STATE**

CAS# 58-86-6 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

**California Prop 65**

California No Significant Risk Level: None of the chemicals in this product are listed.

**European/International Regulations****European Labeling in Accordance with EC Directives**

**Hazard Symbols:** no data

**Risk Phrases:** no data

**Safety Phrases:** no data

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**WGK (Water Danger/Protection)**

CAS# 58-86-6: No information available.

**Canada - DSL/NDSL**

CAS# 58-86-6 is listed on Canada's DSL List.

**Canada - WHMIS**

This product has a WHMIS classification of Not controlled.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by those regulations.

**Canadian Ingredient Disclosure List**

**Section 16: Other Information**

**Acronyms**

**ACGIH** - American Conference of Governmental Industrial Hygienists

**ANSI** - American National Standards Institute

**CAS** - Chemical Abstracts Service

**CERCLA** - Comprehensive Environmental Response, Compensation & Liability Act of 1980

**CFR** - Code of Federal Regulations

**CHEMTREC** - Chemical Transportation Emergency Center

**CPR** - Controlled Products Regulations

**CWC** - Chemical Weapons Convention

**DOT** - U.S. Department of Transportation

**DSL** - Canadian Domestic Substance List

**EHS** - Extremely Hazardous Substance

**EPA** - U.S. Environmental Protection Agency

**HMIS** - Hazardous Material Identification System

**IARC** - International Agency for Research on Cancer

**LEL/UEL** - Lower and Upper Explosive Limit

**mg/m<sup>3</sup>** - Milligrams per cubic meter

**NAERG** - North American Emergency Response Guidebook

**NIOSH** - National Institute of Occupational Safety and Health

**NFPA** - National Fire Protection Association

**NTP** - National Toxicology Program

**OSHA** - Occupational Safety and Health Administration








**PEL** - Permissible Exposure Limit (set by OSHA)

**PPE** - Personal Protective Equipment

**RCRA** - Resource Conservation and Recovery Act of 1976

**SARA** - Superfund Amendments and Reauthorization Act

**GHS Pictograms and Hazards**

<p><b>Health Hazard</b></p>  <ul style="list-style-type: none"> <li>• Carcinogen</li> <li>• Mutagenicity</li> <li>• Reproductive Toxicity</li> <li>• Respiratory Sensitizer</li> <li>• Target Organ Toxicity</li> <li>• Aspiration Toxicity</li> </ul>	<p><b>Flame</b></p>  <ul style="list-style-type: none"> <li>• Flammables</li> <li>• Pyrophorics</li> <li>• Self-Heating</li> <li>• Emits Flammable Gas</li> <li>• Self-Reactives</li> <li>• Organic Peroxides</li> </ul>	<p><b>Exclamation Mark</b></p>  <ul style="list-style-type: none"> <li>• Irritant (skin and eye)</li> <li>• Skin Sensitizer</li> <li>• Acute Toxicity (harmful)</li> <li>• Narcotic Effects</li> <li>• Respiratory Tract Irritant</li> <li>• Hazardous to Ozone Layer (Non-Mandatory)</li> </ul>
<p><b>Gas Cylinder</b></p>  <ul style="list-style-type: none"> <li>• Gases Under Pressure</li> </ul>	<p><b>Corrosion</b></p>  <ul style="list-style-type: none"> <li>• Skin Corrosion/ Burns</li> <li>• Eye Damage</li> <li>• Corrosive to Metals</li> </ul>	<p><b>Explosion Bomb</b></p>  <ul style="list-style-type: none"> <li>• Explosives</li> <li>• Self-Reactives</li> <li>• Organic Peroxides</li> </ul>
<p><b>Flame Over Circle</b></p>  <ul style="list-style-type: none"> <li>• Oxidizers</li> </ul>	<p><b>Environment (Non-Mandatory)</b></p>  <ul style="list-style-type: none"> <li>• Aquatic Toxicity</li> </ul>	<p><b>Skull and Crossbones</b></p>  <ul style="list-style-type: none"> <li>• Acute Toxicity (fatal or toxic)</li> </ul>

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SDS - Safety Data Sheet

STEL - Concentration to which workers can be exposed continuously for a **short** period of time without suffering from irritation, irreversible tissue damage or narcosis of sufficient degree to increase the likelihood of accidental injury, impair self-rescue or materially reduce work efficiency.

TDG (Canadian): Transport of Dangerous Goods Regulations

TLV - Threshold Limit Value (set by ACGIH)

TWA - 8-hour Time Weighted Average

TSCA - US Toxic Substance Control Act

WHMIS - Workplace Hazardous Material Information System

SDS Issue Date: 4-11-2014

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Supersedes: 3-26-2010

NFWA Rating Explanation Guide					
Rating Number	Health Hazard	Flammability Hazard	Instability Hazard	Rating Symbol	Special Hazard
4	Can be lethal	Will vaporize and readily burn at normal temperatures	May explode at normal temperatures and pressures	ALK	Alkaline
3	Can cause serious or permanent injury	Can be ignited under almost all ambient temperatures	May explode at high temperature or shock	ACID	Acidic
2	Can cause temporary incapacitation or residual injury	Must be heated or high ambient temperature to burn	Violent chemical change at high temperatures or pressures	BIO	BioHazard
1	Can cause significant irritation	Must be preheated before ignition can occur	Normally stable. High temperatures make unstable	COR	Strong Corrosive
0	No Hazard	Will not burn	Stable	CRYO	Cryogenic
				OXY	Oxidizer
				☢	Radioactive
				W	Reacts violently or explosively with water
				W OX	Reacts violently or explosively with water or oxidizer

*This chart for reference only - For complete specifications consult the NFPA Standard*

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