

Material Safety Data Sheet



Martrex, Inc.

Section 1: Chemical Product and Company Information

Product name: D-Xylose

Supplier/ Further Information: Martrex, Inc.

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EPA Registration Number: n/a

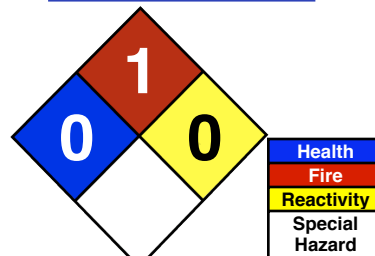
CAS#: 58-86-6

Chemical Name: D-Xylose

Synonyms: Wood sugar; (+)-Xylose

Chemical Family:

MSDS 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: 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 3: Hazards Identification

Main hazards: **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.

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

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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.**

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

Flamibility 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.

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): see section 5 dust explosion hazard

Softening Point: no data

Freezing/Melting Point: 144 – 155°C

Evaporation Rate: not applicable

Solubility in water: soluble

Other Solubilities: alcohol

Chemical Formula: C₅H₁₀O₅

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

LD₅₀/LC₅₀

Oral LD₅₀ (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.

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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

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 MSDS contains all of the information required by those regulations.

Canadian Ingredient Disclosure List

Section 16: Other Information

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

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/m³ - Milligrams per cubic meter

MSDS - Material Safety Data Sheet

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

 NFPA Rating Explanation Guide 					
Rating Number	Health Hazard	Flamibility 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 pre-heated 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

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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

MSDS Issue Date: n/a
Revised Date: 3-26-2010
Supersedes: n/a

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