

### **1. IDENTIFICATION**

Product Name	D-Xylose
Other Names	Wood Sugar
Uses	Food/feed applications.
Chemical Family	No Data Available
Chemical Formula	C5H10O5
Chemical Name	Xylose
Product Description	No Data Available

#### Contact Details of the Supplier of this Safety Data Sheet

Organisation	Location	Telephone
Redox Ltd	2 Swettenham Road Minto NSW 2566 Australia	+61-2-97333000
Redox Ltd	11 Mayo Road Wiri Auckland 2104 New Zealand	+64-9-2506222
Redox Inc.	3960 Paramount Boulevard Suite 107 Lakewood CA 90712 USA	+1-424-675-3200
Redox Chemicals Sdn Bhd	Level 2, No. 8, Jalan Sapir 33/7 Seksyen 33, Shah Alam Premier Industrial Park 40400 Shah Alam Sengalor, Malaysia	+60-3-5614-2111

#### **Emergency Contact Details**

For emergencies only; DO NOT contact these companies for general product advice.

Organisation	Location	Telephone
Poisons Information Centre	Westmead NSW	1800-251525 131126
Chemcall	Australia	1800-127406 +64-4-9179888
Chemcall	Malaysia	+64-4-9179888
Chemcall	New Zealand	0800-243622 +64-4-9179888
National Poisons Centre	New Zealand	0800-764766
CHEMTREC	USA & Canada	1-800-424-9300 CN723420 +1-703-527-3887

#### 2. HAZARD IDENTIFICATION

#### **Poisons Schedule (Aust)**

Not Scheduled

Redox Ltd

Corporate Office Sydney Locked Bag 15 Minto NSW 2566 Australia 2 Swettenham Road Minto NSW 2566 Australia All Deliveries: 4 Holmes Road Minto NSW 2566 Australia

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Australia New Zealand Auckland Christchurch Adelaide Brisbane Melbourne Hawke's Bay Perth UK London Sydney

Malaysia Kuala Lumpur USA Los Angeles Oakland Mexico Saltillo



### **Globally Harmonised System**

Hazard Classification	NOT hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)
Signal Word	None

### National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification	NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods
	by Road & Rail (ADG Code)

#### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### Ingredients

Chemical Entity	Formula	CAS Number	Proportion
D-Xylose	C5H10O5	58-86-6	<=100 %

### 4. FIRST AID MEASURES

### Description of necessary measures according to routes of exposure

Swallowed	IF SWALLOWED: Rinse mouth, then drink plenty of water. Get medical advice/attention if large amounts are swallowed or if you feel unwell.
Eye	IF IN EYES: Immediately flush eyes with running water for several minutes, holding eyelids open and occasionally lifting the upper and lower lids. Remove contact lenses if present and easy to do. Continue rinsing for 10 - 15 minutes. If eye irritation persists, get medical advice/attention.
Skin	IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs, get medical advice/attention.
Inhaled	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If respiratory symptoms persist, get medical advice/attention.
Advice to Doctor	Treat symptomatically.
Medical Conditions Aggravated by Exposure	No information available.

### **5. FIRE FIGHTING MEASURES**

General Measures	If safe to do so, move undamaged containers from fire area. Cool containers with water spray until well after fire is out.
Flammability Conditions	May burn but does not ignite readily.
Extinguishing Media	Use dry chemical, Carbon dioxide (CO2), foam or water spray for extinction.
Fire and Explosion Hazard	Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
Hazardous Products of Combustion	Fire may produce irritating, toxic and/or corrosive fumes, including Carbon oxides.
	Contain runoff from fire control or dilution water - Runoff may pollute waterways.

#### **Special Fire Fighting Instructions**

Personal Protective Equipment Wear self-contained breathing apparatus (SCBA) and chemical splash suit. SCBA and structural firefighter's uniform may provide limited protection.

Flash Point	No Data Available	
Lower Explosion Limit	No Data Available	
Upper Explosion Limit	No Data Available	
Auto Ignition Temperature	No Data Available	
Hazchem Code	No Data Available	

### 6. ACCIDENTAL RELEASE MEASURES

General Response Procedure	Ensure adequate ventilation. ELIMINATE all ignition sources. Do not touch or walk through spilled material. Avoid generating dust. Avoid breathing dust and contact with eyes, skin and clothing.
Clean Up Procedures	Collect material (sweep or vacuum up) and place in a closed container for recovery or disposal (see SECTION 13). Reduce airborne dust and prevent scattering by moistening with water. Non-sparking tools should be used.
Containment	Stop leak if safe to do so – Prevent entry into waterways, drains or confined areas. Prevent dust cloud.
Decontamination	No information available.
Environmental Precautionary Measures	Prevent entry into drains and waterways.
Evacuation Criteria	Spill or leak area should be isolated immediately. Keep unauthorised personnel away.
Personal Precautionary Measures	Use personal protective equipment as required (see SECTION 8).

### 7. HANDLING AND STORAGE

Handling	Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Minimise dust generation and accumulation. Avoid breathing dust and contact with eyes, skin and clothing. Do not ingest. Use personal protective equipment as required (see SECTION 8). Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
Storage	Store in a cool, dry and well-ventilated place, out of direct sunlight. Keep container tightly closed. Avoid moisture. Protect against physical damage. Keep away from heat and sources of ignition - No smoking. Keep away from incompatible materials (see SECTION 10).
Container	Keep in the original container. Containers of this material may be hazardous when empty since they retain product residues (dust/solids); observe all warnings and precautions listed for the product.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General	No specific exposure standards are available for this product. For dusts from solid substances without specific occupational exposure standards: - Safe Work Australia Exposure Standard (Nuisance dusts): 8 hr TWA = 10 mg/m3 (measured as inhalable dust). - New Zealand WES (Particulates not otherwise classified): TWA = 10 mg/m3; TWA = 3 mg/m3 (respirable dust).
Exposure Limits	No Data Available
<b>Biological Limits</b>	No information available.
Engineering Measures	A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

Personal Protection Equipment	<ul> <li>Respiratory protection: Not expected to require personal respirator. In case of inadequate ventilation, wear respiratory protection. Recommended: Dust mask/particulate filter respirator (refer to AS/NZS 1715 &amp; 1716).</li> <li>Eye/face protection: Wear appropriate eye protection to avoid eye contact. Recommended: Chemical safety goggles.</li> <li>Hand protection: Handle with gloves. Recommended: Impervious gloves.</li> <li>Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. Recommended: Clean body-covering clothing.</li> </ul>
Special Hazards Precaustions	No information available.
Work Hygienic Practices	Do not eat, drink or smoke when using this product. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance	Crystals, powder
Odour	Characteristic
Colour	White
рН	5.0 - 7.0 (10% solution)
Vapour Pressure	No Data Available
<b>Relative Vapour Density</b>	No Data Available
Boiling Point	No Data Available
Melting Point	145 °C
Freezing Point	No Data Available
Solubility	Soluble in water
Specific Gravity	1.525
Flash Point	No Data Available
Auto Ignition Temp	No Data Available
Evaporation Rate	No Data Available
Bulk Density	No Data Available
Corrosion Rate	No Data Available
Decomposition Temperature	No Data Available
Density	No Data Available
Specific Heat	No Data Available
Molecular Weight	No Data Available
Net Propellant Weight	No Data Available
Octanol Water Coefficient	No Data Available
Particle Size	No Data Available
Partition Coefficient	No Data Available
Saturated Vapour Concentration	No Data Available
Vapour Temperature	No Data Available
Viscosity	No Data Available
Volatile Percent	No Data Available
VOC Volume	No Data Available
Additional Characteristics	No information available.
Potential for Dust Explosion	Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Fast or Intensely Burning Characteristics	No information available.
Flame Propagation or Burning Rate of Solid Materials	No information available.
Non-Flammables That Could Contribute Unusual Hazards to a Fire	No information available.
Properties That May Initiate or Contribute to Fire Intensity	May burn but does not ignite readily.
Reactions That Release Gases or Vapours	Fire/decomposition may produce irritating, toxic and/or corrosive fumes, including Carbon oxides.
Release of Invisible Flammable Vapours and Gases	No information available.

### **10. STABILITY AND REACTIVITY**

General Information	No information available.
Chemical Stability	Stable under ordinary conditions of use and storage.
Conditions to Avoid	Avoid generating dust. Keep away from heat and sources of ignition.
Materials to Avoid	Incompatible/reactive with strong oxidisers.
Hazardous Decomposition Products	Fire/decomposition may produce irritating, toxic and/or corrosive fumes, including Carbon oxides.
Hazardous Polymerisation	Will not occur.

#### **11. TOXICOLOGICAL INFORMATION**

General Information	<ul> <li>Information on possible routes of exposure:</li> <li>Ingestion: No adverse effects expected; Large doses may cause gastro-intestinal upset.</li> <li>Eye contact: No adverse effects expected. May cause mechanical irritation.</li> <li>Skin contact: No adverse effects expected. May cause mechanical irritation.</li> <li>Inhalation: No adverse health effects expected from inhalation. Breathing in dust may result in respiratory irritation.</li> <li>Chronic effects: No information available.</li> </ul>
Carcinogen Category	None

### **12. ECOLOGICAL INFORMATION**

Ecotoxicity	No information available.
Persistence/Degradability	No information available.
Mobility	No information available.
Environmental Fate	Prevent entry into drains and waterways.
<b>Bioaccumulation Potential</b>	No information available.
Environmental Impact	No Data Available

### **13. DISPOSAL CONSIDERATIONS**

#### **General Information**

Special Precautions for Land Fill

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

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility.

## **14. TRANSPORT INFORMATION**

<b>Land Transport (Australia)</b> ADG Code	
Proper Shipping Name	D-Xylose
Class	No Data Available
Subsidiary Risk(s)	No Data Available
	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available
Comments	NON-DANGEROUS GOODS: Not regulated for LAND transport.
<b>Land Transport (Malaysia)</b> ADR Code	
Proper Shipping Name	D-Xylose
Class	No Data Available
Subsidiary Risk(s)	No Data Available
	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available
Comments	NON-DANGEROUS GOODS: Not regulated for LAND transport.
Land Transport (New Zealand) NZS5433	
Proper Shipping Name	D-Xylose
Class	No Data Available
Subsidiary Risk(s)	No Data Available
	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available
Comments	NON-DANGEROUS GOODS: Not regulated for LAND transport.

Land Transport (United States of America) US DOT

Proper Shipping Name	D-Xylose
Class	No Data Available
Subsidiary Risk(s)	No Data Available
	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available
Comments	NON-DANGEROUS GOODS: Not regulated for LAND transport.
Sea Transport IMDG Code	
Proper Shipping Name	D-Xylose
Class	No Data Available
Subsidiary Risk(s)	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available
EMS	No Data Available
Marine Pollutant	No
Comments	NON-DANGEROUS GOODS: Not regulated for SEA transport.
<b>Air Transport</b> IATA DGR	
Proper Shipping Name	D-Xylose
Class	No Data Available
Subsidiary Risk(s)	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available

No Data Available

# National Transport Commission (Australia)

**Special Provision** 

Comments

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods ClassificationNOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods<br/>by Road & Rail (ADG Code)

NON-DANGEROUS GOODS: Not regulated for AIR transport.

#### **15. REGULATORY INFORMATION**

General InformationNo Data AvailablePoisons Schedule (Aust)Not Scheduled

### **Environmental Protection Authority (New Zealand)**

Hazardous Substances and New Organisms Amendment Act 2015

Approval Code	Not Hazardous
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### **National/Regional Inventories**

Australia (AIIC)	Listed
Canada (DSL)	Listed
Canada (NDSL)	Not Determined
China (IECSC)	Listed
Europe (EINECS)	200-400-7
Europe (REACh)	Not Determined
Japan (ENCS/METI)	Listed
Korea (KECI)	Not Determined
Malaysia (EHS Register)	Not Determined
New Zealand (NZIoC)	Not Determined
Philippines (PICCS)	Listed
Switzerland (Giftliste 1)	Not Determined
Switzerland (Inventory of Notified Substances)	Not Determined
Taiwan (NCSR)	Not Determined
USA (TSCA)	Not Determined

### **16. OTHER INFORMATION**

Related Product Codes	XYLOSE1000, XYLOSE1001, XYLOSE1002, XYLOSE1003, XYLOSE2000, XYLOSE2001, XYLOSE3000, XYLOSE4000, XYLOSE6000, XYLOSE7000, XYLOSE7100, XYLOSE8000, XYLOSE8001, XYLOSE8900
Revision	4
Revision Date	11 Jul 2019
Reason for Issue	Updated SDS
Key/Legend	<ul> <li>Less Than</li> <li>Greater Than</li> <li>AICS Australian Inventory of Chemical Substances</li> <li>atm Atmosphere</li> <li>CAS Chemical Abstracts Service (Registry Number)</li> <li>cm<sup>2</sup> Square Centimetres</li> <li>CO2 Carbon Dioxide</li> <li>COD Chemical Oxygen Demand</li> <li>deg C (°C) Degrees Celcius</li> <li>EPA (New Zealand) Environmental Protection Authority of New Zealand</li> <li>deg F (°F) Degrees Farenheit</li> </ul>

g Grams g/cm<sup>3</sup> Grams per Cubic Centimetre g/I Grams per Litre HSNO Hazardous Substance and New Organism IDLH Immediately Dangerous to Life and Health immiscible Liquids are insoluable in each other. inHg Inch of Mercury inH20 Inch of Water K Kelvin kg Kilogram kg/m<sup>3</sup> Kilograms per Cubic Metre Ib Pound LC50 LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours. LD50 LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals. Itr or L Litre m<sup>3</sup> Cubic Metre mbar Millibar mg Milligram mg/24H Milligrams per 24 Hours mg/kg Milligrams per Kilogram mg/m<sup>3</sup> Milligrams per Cubic Metre Misc or Miscible Liquids form one homogeneous liquid phase regardless of the amount of either component present. mm Millimetre mmH20 Millimetres of Water mPa.s Millipascals per Second N/A Not Applicable NIOSH National Institute for Occupational Safety and Health NOHSC National Occupational Heath and Safety Commission OECD Organisation for Economic Co-operation and Development Oz Ounce PEL Permissible Exposure Limit Pa Pascal ppb Parts per Billion ppm Parts per Million ppm/2h Parts per Million per 2 Hours ppm/6h Parts per Million per 6 Hours psi Pounds per Square Inch **R** Rankine RCP Reciprocal Calculation Procedure STEL Short Term Exposure Limit TLV Threshold Limit Value tne Tonne TWA Time Weighted Average ug/24H Micrograms per 24 Hours **UN** United Nations

**wt** Weight