



MATERIAL SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION OF MATERIAL AND SUPPLIER

SUPPLIER:	Oxtek Australia Pty Ltd
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WEB PAGE:	www.oxtekaus.com
Product Name:	Oxtek Australia® X200 Densi-Proof™.
Proper Shipping Name:	Not applicable.
Product Use:	Inorganic binder for concrete treatment.
Manufacturer's Product Code:	Not applicable.
Creation Date:	8 March 2016.
Revision Date:	Before 7 March 2021.

SECTION 2 – HAZARDS IDENTIFICATION

This product is classified as a **NON-HAZARDOUS SUBSTANCE** according to criteria of the National Occupational Health and Safety Commission Australia (NOHSC, now Safe Work Australia) and as a **NON-DANGEROUS GOOD** according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG) Code.

Hazard Category:	Non-Hazardous, alkaline.
Emergency Overview:	May be harmful by ingestion, and in contact with skin.
Skin Contact:	May cause slight skin irritation.
Ingestion:	May be harmful.
Eye Contact:	May be slightly irritating to eyes.
Primary Routes of Exposure:	Eyes, skin, mouth.
Risk Statements:	Not applicable.
Safety Statements:	Not applicable.
SUSMP:	No Poisons Schedule number allocated.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients:	CAS Number:	Proportion:
Silicates (Non-Hazardous)	Proprietary	10 - < 30% w/w
Other Ingredients (Non-Hazardous)	Proprietary	< 10% w/w
Water	7732-18-5	To 100% w/w
Total		100% w/w



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SECTION 4 – FIRST AID MEASURES

Scheduled Poisons:	Poisons Information Centre in each Australian State capital city can provide additional assistance for scheduled poisons. (Phone Australia 13 11 26) or a doctor (at once).
First Aid Facilities Required:	Eye wash fountains and a general washing facility should be easily accessible in the immediate work area.
Inhalation:	Not expected to be an inhalation hazard. Remove victim from exposure – avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.
Skin Contact:	For gross contamination immediately drench with water and remove clothing. Continue to flush skin and hair with plenty of running water. Immediately remove contaminated clothing and wash before reuse. If irritation develops seek medical attention.
Eye Contact:	If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. If irritation develops seek medical attention.
Ingestion (Swallowed):	Immediately rinse out mouth with water. If swallowed DO NOT induce vomiting. Give a glass of water to drink. Never give anything by mouth to an unconscious patient. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration into the lungs. Get to a doctor or hospital quickly.
Advice to Doctor:	No specific antidote. Treat symptomatically. Poisons Information Centre in each Australian State capital city can provide additional assistance for scheduled poisons.

SECTION 5 – FIRE FIGHTING MEASURES

Hazards from Combustion	Product itself is not combustible.
Products:	
Suitable Extinguishing Media:	Define extinguishing measures according to neighbouring conditions.
Precautions for Fire Fighting:	No special protective equipment measures required.
Hazchem Code:	Not applicable.
Flash Point:	Not applicable.
Flammability:	Product is Non-flammable according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. No special measures for fire and explosion protection. No dangerous decomposition products known.



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SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spills:

Personal Precautions: In case of spill, particular danger of slipping on leaked/spilled product. Isolate hazard area and deny entry.

Environmental Precautions: Do not allow to enter drainage system, surface or ground water. In the event of product entering waters or drainage system, or polluting soil or plants contact the Environmental Protection Authority or your local Waste Management Authority.

Methods of cleaning up/of removing: Spilt material should be absorbed into dry, inert material (e.g. sand, vermiculite, diatomite, acid binders, universal binders, sawdust etc.), which then can be put into appropriately labelled drums. The wasted material can be disposed of by incineration (preferably high temperature) by an approved agent according to State, Territory and/or Local government regulations.

SECTION 7 – HANDLING AND STORAGE

Handling: Avoid all personal contact, including skin and eye contact and contamination of clothing. Wear protective clothing when risk of exposure occurs. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers closed at all times. Avoid physical damage to containers. Always wash hands with soap and water after handling. Work clothes should be laundered separately. Launder contaminated clothing before re-use.

Information about Fire and Explosion Protection: No special measures required.

Storage:

General: Store away from incompatible substances including acids and light alloys. Keep containers closed at all times.

Requirements for Storerooms & Receptacles: Do not use light alloy receptacles.

Unsuitable Materials for Receptacles: Aluminium, zinc, glass or ceramic.

Suitable Materials for Receptacles & Pipes: Steel or stainless steel. Use polyolefin receptacles.

Further Information about Storage Conditions: Protect from frost.



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SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits:	National Occupational Exposure Limits, as published by Safe Work Australia: Time-weighted Average (TWA): None established for product. Short Term Exposure Limit (STEL): None established for product. The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
Engineering Controls:	Product is recommended to be applied using a spray apparatus. In outdoor application no special ventilation or breathing equipment is required. If applied indoors, extra mechanical ventilation may be required to facilitate more comfortable breathing.
Personal Protection:	<u>General protective & hygiene measures:</u> The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. <u>Respiratory protective equipment:</u> Not required. <u>Eye protection:</u> The use of face shield protection is recommended to avoid airborne particles contacting eyes and skin during spraying. Otherwise, the use of chemical goggles or safety glasses with side shield protection is recommended. <u>Hand protection:</u> Alkaline resistant gloves (e.g. Butyl, Natural Rubber Latex with small amount of Polychloroprene Latex, Polychloroprene, Nitrile, PolyVinyl Chloride or PVC, Polyvinyl Alcohol or PVAL gloves complying with AS 2161) are recommended. <u>Clothing:</u> Suitable protective clothing.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical Description/ Properties	
Appearance:	Low viscosity liquid.
Colour:	Cloudy-white.
Odour:	Almost none.
pH:	Ca. 11.4.
Vapour Pressure:	Not available.
Vapour Density:	Not available.
Boiling Point/ Range:	> 100°C @ 760 mm Hg.
Freezing/ Melting Point:	Not available.
Solubility in Water:	Fully miscible.
Specific Gravity:	Ca. 1.10.
Flashpoint:	Not applicable.
Auto Ignition Temperature:	Product is not self igniting.
Flammability Limits:	Not applicable.
Other Properties	
Evaporation Rate:	Not available.
Viscosity:	Low.
Stability:	Stable under normal conditions.



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SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability:	Stable at normal temperatures and pressure.
Thermal Decomposition:	No decomposition if used according to specifications.
Dangerous Reactions:	Strong exothermic reaction with acids. Reacts with light alloys to form hydrogen.
Conditions to Avoid:	Avoid contact with incompatible materials.
Materials to Avoid:	Acids, light alloys.
Hazardous Decomposition Products:	No dangerous decomposition products known.

SECTION 11 – TOXICOLOGICAL INFORMATION

Health Effects:	
Acute:	
Swallowed:	Alkaline product. May cause burning in throat and mouth. Seek medical attention.
Eye:	Slightly irritant.
Skin:	Slightly irritant.
Inhaled:	No data for product.
Mutagenicity:	No data for product.
Carcinogenicity:	No data for product.
Reproductive & Developmental Toxicity:	No data for product.
Sensitization:	No sensitizing effects known.
Acute Toxicity Data (Oral):	No data for product. On basis of ingredients, Acute Toxicity for active ingredient LD ₅₀ (Oral, rat) > 2000 mg/kg.
Acute Toxicity Data (Dermal):	No data for product.
Acute Toxicity Data (Inhalation):	No data for product.
Chronic Toxicity Data:	No data for product.

SECTION 12 – ECOLOGICAL INFORMATION

Fish Toxicity:	No data for product, on the basis of ingredients: Acute Toxicity for active ingredient LC ₅₀ (96 h, Zebra fish, Brachydanio rerio) > 1000 mg/l.
Algae Toxicity:	None available for product.
Invertebrates Toxicity:	No data for product, on the basis of ingredients, Acute Toxicity for active ingredient EC ₅₀ (48 h, Daphnia) > 1000 mg/l.
Toxicity to Microorganisms:	None available for product.
OECD Biological Degradation Information about Elimination (Persistence & Degradability):	None available for product. Readily eliminable from water. Inorganic product; biotic degradation not applicable.
Ecotoxic Effects:	No toxicity after neutralization.



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SECTION 12 – ECOLOGICAL INFORMATION (CONTINUED)

Behaviour in Sewage Processing Plants:	The product is an alkaline solution. Neutralization is normally necessary before a waste water is discharged into sewage treatment plants.
General:	DO NOT DISCHARGE INTO DRAINS, WATERWAYS, SEWER OR ENVIRONMENT. Product is slightly hazardous for water. Product is fully miscible with water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Inform local authorities if this occurs.

SECTION 13 – DISPOSAL CONSIDERATIONS

Product:	Recommended that it can be disposed off with rubble after solidification following consultation with the waste disposal facility operator according to State, Territory and/or Local government regulations.pertinent authorities and adhering to the necessary technical regulations.
Uncleaned Packaging:	Recommended to be disposed of according to official regulations. Recommended cleansing agent is water, if necessary with cleansing agents.

SECTION 14 – TRANSPORT INFORMATION

General:	This material is a Non-Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
UN Number:	Not applicable.
UN Proper Shipping Name:	Not applicable.
ADG Class:	Not applicable.
Packing Group:	Not applicable.
HAZCHEM Code:	Not applicable.

SECTION 15 – REGULATORY INFORMATION

SUSMP:	No Poisons Schedule number allocated.
AICS:	All ingredients present on AICS.
ADG Code:	Not applicable.
Labelling Details:	
Risk Statements:	Not applicable.
Safety Statements:	Not applicable.



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SECTION 16 – OTHER INFORMATION

Acronyms and Comments

ADG Code:	Australian Code for the Transport of Dangerous Goods by Road and Rail.
AICS:	Australian Inventory of Chemical Substances.
CAS Number:	Chemical Abstracts Service Registry Number.
HAZCHEM:	An emergency action code of numbers and letters which gives information to emergency services.
IERG:	Dangerous Goods Initial Emergency Response Guide (HB 76:2010 Standards Australia).
MSDS:	Material Safety Data Sheet.
Safe Work Australia:	Safe Work Australia was formerly the Australian Safety and Compensation Council, which included the National Occupational Health and Safety Commission (NOHSC).
STEL:	Exposure standard - short term exposure limit, a 15 minute TWA exposure which should not be exceeded at any time during a working day even if the eight-hour TWA average is within the TWA exposure standard. Exposures at the STEL should not be longer than 15 minutes and should not be repeated more than four times per day. There should be at least 60 minutes between successive exposures at the STEL. According to current knowledge this concentration should neither impair the health of, nor cause undue discomfort to, nearly all workers.
SUSMP:	Standard for the Uniform Scheduling of Medicines and Poisons.
TWA:	Exposure standard - time-weighted average, the average airborne concentration of a particular substance when calculated over a normal eight hour working day, for a five-day working week.
UN Number:	United Nations Number.
Issue Date:	8 March 2016.
Supersedes Issue Date:	8 March 2011.
Revision Information:	Rev 1.
Contact Point:	Regulatory Affairs Manager.
Telephone:	(+61 3) 9798 7534.
Note:	Material Safety Data Sheets are updated frequently. Please ensure that you have a current copy.
Disclaimer:	This MSDS summarises at the date of issue our best knowledge of the health and safety hazard information of this product, and in particular how to safely handle and use this product in the workplace. Since Oxtek Australia Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use the product in the workplace. This MSDS does not represent a guarantee for the properties of the product(s) described in terms of the legal warranty regulations. If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company. This document is copyright. Apart from any fair dealing for the purposes of private study, research, review or criticism, as permitted under the Copyright Act, no part may be reproduced by any process without written permission from Oxtek Australia Pty Ltd
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