



Material Safety Data Sheet

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SECTION 1: Identification of the substance

Name: YDRO SERIES

Synonyms: Bacterial Products: YDRO 1-22, Ydro Process® Microorganisms

Common Uses: Waste water treatment and drain cleaner

Produced by: HYDROTECH ENVIRONMENTAL

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SECTION 2: Composition / information on ingredients

This product does not present any health hazards and therefore disclosure of the components is not required. Information is provided below to assist users in understanding the nature of the product.

Contains:	Name	CAS #	Concentration (% by weight)
	Bacterial cultures (naturally occurring, nonpathogenic, not derived from animal sources, non-toxic, non-Genetically Modified Organisms)	Not Applicable	< 1%
	Blend of naturally occurring ingredients as a carrier, including corn and wheat bran and kelp	Not Applicable	> 99%



SECTION 3: Hazard Identification

Classification: Bacterial culture non pathogenic

Combustible Dust: May form combustible dust concentrations in air

Health Hazards: Not applicable

Physical Hazards: Not applicable

SECTION 4: First Aid Measures

Description of necessary measures:

Inhalation: Inhalation of this product should be avoided. If breathing is difficult or in case of mechanical irritation, remove person to fresh air. If other symptoms occur or if irritation persists, seek medical attention.

Skin contact: This product is not anticipated to be hazardous upon skin contact, but wash hands after handling large quantities of material to avoid getting dusts in eyes. If any irritation or other symptoms occur, get medical advice/attention.

Eye contact: Avoid eye contact. In case of contact with eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing to remove dusts from eye. May cause mechanical irritation like any dust. Chemical irritation not anticipated. If eye irritation occurs: Get medical advice/attention.

Ingestion: Ingestion of the product may cause choking or blockage in the gastrointestinal tract due to the physical nature of the dust. DO NOT INGEST PRODUCT. If dust gets in the mouth and if the person is conscious and lucid, rinse mouth with water. Do NOT swallow and do NOT induce vomiting. Do NOT administer any liquid to an unconscious person. Not anticipated to cause a chemical hazard. If material is ingested, seek medical attention.

Most important symptoms/effects, acute and delayed: Not anticipated to cause more than



nuisance irritation (respiratory/eyes) in case of contact with the dust (nuisance particulate) following anticipated exposures to this material. Ingestion may cause irritation of the gastrointestinal tract which may result in nausea and diarrhea.

Persons with immunodeficiency disorders (i.e., their immune systems do not work properly) should not handle this product.

Indication of immediate medical attention and special treatment needed: None are anticipated to be needed.

SECTION 5: Fire Fighting Measures

Suitable Extinguishers:	Water spray, dry chemical, carbon dioxide and foam
Unsuitable Extinguishers:	-
Hazardous Combustion products:	None in normal use. Large dust accumulations can be explosive, similar to grain dust explosion. Contains a substance that may release oxygen to a fire.
Special Equipment for Fire Fighting:	Exercise caution when fighting any fire. Wear complete protective clothing including self-contained breathing apparatus.

SECTION 6: Accidental Release Measures

Personal Precautions:	Wear appropriate Personal Protective Equipment - see section 8
Environmental Precautions:	The bacterial and carriers are naturally occurring and should not pose an environmental risk.



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Clean-up Procedure:

Vacuum or sweep up avoiding generation of dust. Place in suitable labelled containers and hold for waste disposal. Wash spill site with water. If bacterial contamination is an issue use chlorine to kill the bacterial spores.

Not anticipated to be a risk if released to the environment as the bacteria and carriers are all naturally occurring.

SECTION 7: Handling and Storage

Handling

Ventilation:

Good general ventilation

Recommended procedures & equipment:

Avoid creating dust

Storage

Temperature Range:

0 – 40 °C for product viability only

Humidity Range:

Less than 40% for long term exposure of unprotected product for product viability only

Keep away from:

See section 10

Suitable storage media:

Original container with closed lid

Precautions against static discharge:

Recommended

SECTION 8: Exposure Controls/ Personal Protection

Exposure standards:

None

Personal Protective Equipment



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Respiratory:	Dust mask
Hand:	Wash hands after use. Gloves recommended.
Eye:	Safety glasses or goggles recommended
Skin:	Wash after exposure. Overall and boots recommended
Environmental Controls:	Users should be aware of environmental considerations and their duties under the environment protection act.
Hygiene Measures:	Always wash thoroughly after handling chemicals

SECTION 9: Physical and Chemical Properties

Appearance:	Brown powder
Odor:	Yeast like odor
pH:	Neutral, 6.0 to 7.0 in water dispersion
Boiling point / range:	Not applicable
Melting point / range:	Not applicable
Flashpoint:	Not applicable
Flammability:	Not flammable under normal conditions of storage & handling
Autoignition Temperature:	Not applicable
Explosion limits:	Not applicable, except in presence of large dust cloud



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Oxidizing Properties:	None
Vapour Pressure:	Not applicable
Relative Density:	0,6 to 0,8
Solubility in Water:	Not soluble. Disperses in water.
Solubility in Solvent:	Not soluble
Partition Coefficient:	Not applicable
Viscosity:	Not applicable
Vapour Density:	Not applicable
Evaporation Rate:	Not applicable
Conductivity:	Not applicable

SECTION 10: Stability and Reactivity

Reactivity:	Stable under normal anticipated conditions of use
Chemical stability:	Stable under normal anticipated conditions of use
Possibility of hazardous reactions:	No hazardous reactions anticipated
Conditions to avoid:	Avoid uses that result in accumulation of dusts. Ensure proper industrial hygiene measures are in place to avoid accumulation of dusts as these may pose a dust explosion hazard.
Incompatible materials:	Acids, alkalis and bleach may inactivate the bacterial cultures. No other incompatible materials are known.



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Hazardous decomposition products: None are known. However, thermal decomposition may release carbon monoxide, carbon dioxide and irritating vapors.

SECTION 11: Toxicological Information

Information on likely routes of exposure: Ingestion, inhalation, contact with skin and eyes.

Symptoms related to the physical, chemical and toxicological characteristics: Not anticipated to cause more than nuisance irritation (respiratory/eyes) in case of contact with the dust (nuisance particulate) following anticipated exposures to this material. Ingestion may cause irritation of the gastrointestinal tract which may result in nausea and diarrhea.

Persons with immunodeficiency disorders (i.e., their immune systems do not work properly) should not handle this product.

Delayed and immediate effects and chronic effects from short or long-term exposure:

Skin Irritation and Corrosion: Not anticipated to cause skin irritation based upon information available on the components and the product. Mechanical irritation may occur.

Serious Eye Damage/ Eye Irritation: Not anticipated to cause more than physical/mechanical eye irritation based upon information available on the components and the product.

Respiratory Sensitization: Not anticipated to cause respiratory sensitization based on information available on the components and the product.

Skin Sensitization: Not anticipated to cause skin sensitization, except in sensitive individuals, based on information available on the components and the product.



Germ Cell Mutagenicity:	Not anticipated to cause heritable genetic effects based upon information available on the components and the product.
Carcinogenicity:	Not anticipated to cause carcinogenicity based upon information available on the product.
Reproductive Toxicity:	Not anticipated to be toxic to reproduction based on information available on the components and the product.
Specific Target-Organ Toxicity – Single Exposure:	May cause nuisance particulate irritation of the respiratory tract, but not classifiable irritation. Not anticipated to cause specific target-organ toxicity following a single exposure, based upon information available on the components and the product.
Specific Target-Organ Toxicity – Repeated Exposure:	Not anticipated to cause specific target-organ toxicity following repeated or prolonged exposures based on information available on the components and the product.
Aspiration Hazard:	Not anticipated to be an aspiration hazard.
Numerical measures of Toxicity:	LD ₅₀ (oral rat) – Not Available LD ₅₀ (dermal rabbit) – Not Available LC ₅₀ (inhalation rat) – Not Available
All carrier ingredients are believed to be essentially non-toxic. Bacterial cultures are naturally occurring, non-pathogenic, not derived from animal sources, nontoxic, non-Genetically Modified Organisms (non-GMO).	
Acute Toxicity Estimate (ATE):	Acute toxicity (oral)–Cannot be determined Acute toxicity (dermal)–Cannot be determined Acute toxicity (inhalation)–Cannot be determined

SECTION 12: Ecological Information

Environmental Effects:	Minimal impact under normal conditions of use and storage. The bacterial cultures are naturally occurring soil-type organisms. The
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	carriers are naturally occurring materials.
Mobility:	Disperses in water
Bioaccumulative Potential:	Contents are biodegradable
Bioaccumulative Potential:	Not known
Aquatic Toxicity:	Not known

The bacterial cultures in this product are all naturally-occurring soil-type organisms. The carrier ingredients are all naturally-occurring materials that are anticipated to not be toxic to fish, crustacea or algae. This product is not anticipated to be dangerous to the environment with respect to mobility, persistence and biodegradability, bioaccumulative potential or aquatic toxicity.

SECTION 13: Disposal Considerations

Disposal Instructions:

Product: Dispose in accordance with applicable federal, provincial/territorial, and local regulations. Product may be swept up and may be reused rather than disposed if not contaminated with other materials. Check sections 5, 6 and 7 for relevant information regarding spill clean-up methods.

Container - Packing: Since emptied containers retain product residue, follow label warnings even after container is emptied.

SECTION 14: Transport Information

UN Number: -	Class: -
Packing Group: -	Emergency Action Code: -
IATA-DGR: Not Regulated	Marine Pollutant: -
Proper Shipping Name:	Water treatment compounds, bacterial culture



SECTION 15: Regulatory Information

Label Name:	YDRO
Symbols:	No risk or safety phrases stipulated
Risk Phrases:	No risk or safety phrases stipulated
Safety Phrases:	No risk or safety phrases stipulated
E.C. Number:	-
Additional Labelling:	-
Use of this material may be governed by the following regulations:	-

SECTION 16: Other Information

This material must not come in direct contact with food. Further details may be available upon request from your distributor.

Other: The product has been shown to be free of Salmonella and Shigella.

Disclaimer:

The product information contained herein is believed to be accurate as of the date of the Safety Data Sheet and based on information available, and is provided without warranty, expressed or implied, as to the results of use of this information or the product to which it relates. Recipient assumes all responsibility for the use of this information and the use (alone or in combination with any other product), storage or disposal of the product, including any resultant personal injury or property damage.