



MATERIAL SAFETY DATA SHEET

ROLF C. HAGEN INC. 20500 TRANSCANADA HWY
BAIE D'URFÉ, QUÉBEC H9X 0A2

Nutrafin
Cycle
A7590 A7595 A7900 A7902 A7904 A7906

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Section I. Product identification and uses	
Product name	Cycle
CAS #	Mixture
Use	Biotechnological treatment for oxidation of nitrogen.
Supplier	Rolf C. Hagen Inc., 20 500 Trans Canada Hwy, Baie d'Urfé, H9X 0A2
Emergency	Call your local Poison Control Centre

Section II. Composition and information on ingredients					
Ingredients	Conc. (%)	CAS #	TLV	LD50	LC50
Bacterial suspension that contains no substances that are classified by Canadian WHMIS					

Section III. Hazardous ingredients		
WHMIS	Classification	Transport of dangerous goods
Not regulated	Not applicable	Not regulated

Section IV. Physical data	
Physical state and appearance/Odour	Clear liquid
pH	7.0 - 8.0
Percent volatile	Not available
Freezing point	32° F (0°C)
Boiling point	Not available
Specific gravity	1.003 -1.007
Vapour density	As water
Vapour pressure	As water
Evaporation rate	As water
Solubility	Soluble in water

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Section V. Fire and explosion data			
Flammability conditions	Non flammable.		
Fire extinguishing procedures	Does not burn. Use extinguishing media appropriate for surrounding fire.		
Fire and explosion hazards	Not applicable		
Fire degradation products	Not applicable		
Flash point	Flammable limit (%volume)		Auto-ignition temperature
Not available	Minimum	Maximum	Not available
	Not available	Not available	

Section VI. Reactivity data	
Stability	Stable under normal conditions. Avoid high and freezing temperatures and contamination. Excess air contact reduces shelf life of bacteria.
Incompatibility	Not available
Reaction products	Product does not polymerize.
Hazardous decomposition products	Not available

Section VII. Toxicological properties	
Route of Entry	Absorbed through inhalation and ingestion.
Effects of acute	Not available
Eye	Not available
Skin	Non corrosive
Inhalation	Non-hazardous
Ingestion	May cause slight diarrhea.
Effects of chronic overexposure	Not available

Section VIII. First aid measures	
Eye contact	Verify if victim wear contact lenses. If so remove them immediately. Immediately flush eye with large amount of running water for at least 15 minute, keeping eyelids open. Seek medical help if symptom develops.
Skin contact	Wash with soap and water. Seek medical help if symptom develops.
Inhalation	Immediately remove person to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by



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	qualified medical personnel only. Get medical attention if symptom develops.
Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth thoroughly with water. Do not induce vomiting, unless directed by medical qualified personnel. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce risk of aspiration. Get medical attention if symptom develops.

Section IX. Preventive measures	
Protective clothing in case of spill and leak	Safety glasses are recommended.
Spill and leak	Stop spill at source if it is safe to do so. Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. For large spills, dike area to prevent spreading. Contain and absorb spilled liquid with non-combustible inert absorbent material, then place absorbent into a container for later disposal.
Measures for cleaning/collecting	According to local, provincial, federal regulations.

Section X. Handling and Storage
Handle in accordance to good industrial hygiene and safety practice. Avoid freezing. Store away from high temperature, over 50°C.

Section XI. Protective measures	
Protective clothing	Chemical safety goggles.
Engineering controls	Use general or local exhaust ventilation.

Section XII. Disposal considerations	
Product recommendation	Dispose of in accordance with federal, provincial and local regulations.
Unclean packaged recommendation	Empty containers may be recycled or discarded as general trash.

Section XIII. Ecological Information
Not available



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Section IXV. Other information

Special precaution or comments For shipping, this product is not regulated by TGD. Maintain good personal hygiene after handling.

Prepared by Rolf C. Hagen Inc.
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