

Safety Data Sheet
According to 1907/2006/EC, Article 31

Trade Name: BIOZYMES 1082

SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Identifier Trade Name: BIOZYMES 1082

1.2 Relevant identified use of the substance or mixture and uses advised

against: No further relevant information available.

Application of the substance / the mixture: Soil Remediation

1.3 Details of the supplier of the Safety Data Sheet

Manufacturer/Supplier:

Magna Chemical Canada Inc.

1450 Government Road West

Kirkland Lake, Ontario, Canada P2N 2E9

Information Department: magna@vapro.com

1.4 Emergency Telephone

Number: CANUTEC 24 Hour

Service CANUTEC: 613.996.6666

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SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture. Classification according to Regulation (EC) No 1272/2008



GHS07

Eye Irritation 2 H319 Causes serious eye irritation.

Skin Sensitivity 1 H317 May cause an allergic skin reaction.

2.2 Label Elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS07

Signal Word: Warning

Hazard statements

H319 Causes serious eye irritation.

Precautionary statements

P264 Wash thoroughly after handling.

P280 Wear protective gloves / eye protection / face protection.

P305+P351+P338 **IF IN EYES:** Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Trade Name: BIOZYMES 1082

SECTION 3: Composition/Information on Ingredients**3.2 Chemical characterization: Mixtures****Description:** Mixture of the substances listed below with nonhazardous additions.

Ingredients:		
CAS: 68991-48-0	Ethoxylated alcohol	10% - 25%
EC number: 614-889-3	<!=> Eye Irritation 2, H319	

Additional information

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First Aid Measures**4.1 Description of first aid measures****After inhalation**

Supply fresh air and consult a doctor.

After skin contact

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing

If symptoms persist consult doctor.

4.2 Most important symptoms and effects, both acute and delayed

The symptoms and effects are as expected from the hazards shown in section 2.

No specific product related symptoms are known.

Information for doctor Show this safety data sheet to the doctor in attendance.**4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

SECTION 5: Firefighting Measures**5.1 Extinguishing media****Suitable extinguishing agents**

Use firefighting measures that suit the environment.

5.2 Special hazards arising from the substance or mixture

No further relevant information available.

5.3 Advice for firefighters

Self-contained breathing apparatus

Protective equipment:

Wear self-contained respiratory protective device.

SECTION 6: Accidental Release Measures**6.1 Personal Precautions, Protective Equipment and Emergency Procedures:**

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental Precautions: Do not allow undiluted product to enter sewers/surface or ground water.**6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

6.4 Reference to other sections

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Trade name: BIOZYMES 1082

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Ensure good ventilation/exhaust at the workplace.

Information about protection against explosions and fires:

No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by storerooms and receptacles:

No special requirements.

Information about storage in one common storage facility:

Do not store together with alkalis (caustic solutions).

Store away from foodstuffs.

Further information about storage conditions:

Keep product from freezing.

Keep receptacle tightly sealed.

Storage class: 12

7.3 Specific end use(s):

No further relevant information available.

SECTION 8: Exposure Controls/Personal Protection

8.1 Control parameters

Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information:

The lists that were valid during the creation were used as basis.

8.2 Exposure controls

Use local exhaust ventilation to control airborne concentrations below exposure limits.

Personal protective equipment

General protective and hygienic measures

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.

Breathing equipment: Use suitable respiratory protective device in case of insufficient ventilation.



Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). To determine the appropriate type of respiratory protection that should be used, a hazard assessment should be performed prior to using the product. Environmental conditions such as ventilation and other contaminants may affect the type of respiratory protection that is chosen.

Protection of hands:

Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Protective Gloves I.E., Nitrile, Viton, Neoprene

Eye protection: Goggles recommended during refilling.

Body protection: Protective work clothing.

Trade name: BIOZYMES 1082

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties	
General Information	
Appearance:	
Form: Liquid	
Colour: Brown	
Odour: Pleasant	
Odour threshold: Not determined.	
pH Value at 20°C: 4.5 – 5.5	
Change in Condition	
Melting point/freezing point:	Undetermined
Initial boiling point and boiling range:	100 °C
Flash point:	Not applicable
Flammability (solid, gaseous)	Not applicable
Decomposition temperature:	Not determined
Self-igniting:	Product is not self-igniting
Explosive properties:	Product does not present an explosion hazard
Explosion limits:	
Lower:	Not determined
Upper:	Not determined
Vapour pressure at 20 °C:	23 hPa (*)
Density:	Not determined
Relative density	Not determined
Vapour density	Not determined
Evaporation rate	Not determined
Solubility in / Miscibility with water:	Fully miscible
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	
Dynamic:	Not determined
Kinematic:	Not determined
Solvent Content:	
Organic Solvents:	0%
Water:	40% - 60%
Solids Content:	40.7%
9.2 Other information	The above data are typical values and do not constitute a specification. *Properties have been calculated.

Trade name: BIOZYMES 1082

SECTION 10: Stability and Reactivity

10.1 Reactivity: Reacts with Alkalis

10.2 Chemical stability: Stable under recommended storage conditions

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications

10.3 Possibility of hazardous reactions: No dangerous reactions known

10.4 Conditions to avoid: No further relevant information available

10.5 Incompatible materials: No further relevant information available

10.6 Hazardous decomposition products: No dangerous decomposition products know

SECTION 11: Toxicological Information

11.1 Information on toxicological effects

Acute toxicity: Based on available data, the classification criteria are not met.

LD/LC50 values that are relevant for classification:

68991-48-0

Ethoxylated alcohol

Oral LD50 >2,000

mg/kg (Rat)

Primary irritant effect:

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/irritation

Respiratory or skin Sensitization

Based on available data, the classification criteria are not met.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure: Based on available data, the classification criteria are not met.

STOT-repeated exposure: Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

SECTION 12: Ecological Information

12.1 Toxicity

Aquatic toxicity:

68991-48-0 Ethoxylated alcohol

LC50 70.7 mg/l (Oncorhynchus mykiss (rainbow trout))

12.2 Persistence and degradability: No further relevant information available.

12.3 Bio accumulative potential: No further relevant information available.

12.4 Mobility in soil: No further relevant information available.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable

12.6 Other adverse effects: No further relevant information available.

Trade name: BIOZYMES 1082

SECTION 13: Disposal Considerations**13.1 Waste treatment methods****Recommendation:** Dispose of in accordance with local, state, and federal regulations.**European waste catalogue**

The European Waste Catalogue (EWC) waste codes do not refer to product but to origin. The manufacturer is therefore unable to quote a waste code for products which are used in various industries.

Any codes shown should be regarded as a recommendation to the user.

HP 4 Irritant - skin irritation and eye damage**Uncleaned packaging:****Recommendation:** Disposal must be made according to official regulations.**Recommended cleansing agent:** Water, if necessary with cleansing agents.**SECTION 14: Transportation Information**

14.1 UN-Number ADR, ADN, IMDG, IATA	Not applicable.
14.2 UN Proper Shipping Name ADR, ADN, IMDG, IATA	Not applicable.
14.3 Transport Hazard Class(es) ADR, ADN, IMDG, IATA Class	Not applicable.
14.4 Packing group ADR, IMDG, IATA	Not applicable.
14.5 Environmental hazards	Not applicable.
14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
UN "Model Regulation"	Not applicable.

SECTION 15: Regulatory Information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

Trade name: BIOZYMES 1082

SECTION 16: Other Information

Abbreviations and acronyms:

ADR: Accord Européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bio accumulative and Toxic

vPvB: very Persistent and very Bio accumulative

Eye Irritation 2: Serious eye damage/eye irritation - Category

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