

BioRemove 5805

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Version 4

Date: 2015-06-16

Supersedes version from : 2013-01-09

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product identifier: BioRemove 5805****1.2 Relevant identified uses of the substance or mixture:**Liquid formulation of non pathogenic viable bacterial cultures
used in waste treatment systems.**Uses advised against:**The product should not be used for other purposes than those
specified without the advice of an expert.**1.3 Details of the supplier of the safety data sheet:**NOVOZYMES BIOLOGICALS FRANCE
Parc technologique des Grillons
60 Route de Sartrouville - Bâtiment 6
78230 LE PECQ – France
Tel/ Fax: +33 (0)1 30 15 28 40/ +33 (0)1 30 15 15 45
ordersnzb@novozymes.com**1.4 Emergency Telephone Number:** +33 (0)1 30 15 28 40 (work hours)**2. HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture****Classification according to the classification rules laid down in Regulation (EC) No. 1272/2008:**

The preparation is not classified as dangerous for human health or the environment.

2.2 Label elements:**Pictogram(s):** None**Indication(s) of danger:** None.**Hazard statement(s):** None**Precautionary statement(s):** None.**Other applicable labels elements:**

None identified

2.3 Other hazards:

None anticipated.

3. COMPOSITION/INFORMATION ON INGREDIENTS**3.1. Classification of the ingredients according to Regulation (EC) No. 1272/2008:**

The ingredients are either non hazardous or present at less than 0,5%.

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4. FIRST-AID MEASURES**4.1 Description of first aid measures**

Exposure by Inhalation: Remove victim to fresh air. Rest and keep warm. If symptoms of irritation and/or sensitization occur (shortness of breath, wheezing or laboured coughing) seek medical attention.

Exposure by skin: Immediately wash affected area thoroughly with soap and water. Seek medical attention if irritation develops.

Exposure by eyes contact: Immediately flush eyes with plenty of water and seek medical advice.

Exposure by Ingestion: Do not induce vomiting. Drink water to dilute. Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Organisms used are non pathogenic but can cause infection when in contact with open wounds.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically

5. FIREFIGHTING MEASURES

5.1 Extinguishing Media: All types of extinguishers may be used: water, foam.

5.2 Special hazards arising from substance or mixture:

If the substance is involved in a fire, oxides of carbon and nitrogen may be evolved

5.3 Advice for firefighters Self-contained breathing apparatus should be worn.

6. ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures:**

Use protective equipment. Avoid formation of splashing and formation of aerosols.

6.2 Environmental Precautions:

None

6.3 Methods and material for containment and cleaning up:

Clean up by collection.

Dispose of waste material in accordance with local or national regulations.

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7. HANDLING AND STORAGE**7.1 Precautions for safe handling:**

Precautions: The substance should be handled under conditions of good industrial hygiene and in conformity with any local regulations in order to avoid unnecessary exposure.

The product is formulated using a range of micro-organisms specially selected from the natural environment and that are known to be non-pathogenic to humans, animals or plants. It is advised to cover open wounds when in use

Technical Measures: The use of gloves is recommended to reduce exposure to the preparation.

Specific Requirements: None.

7.2 Conditions for safe storage, including any incompatibilities:

Specific design for storage rooms or vessels:

None

Incompatible Materials: Strong acids or alkali compounds may inactivate biological cultures. Avoid strong oxidising agents. Do not store in metallic containers

Conditions of Storage: Refrigerate concentrate upon receipt and throughout period of use. Do not freeze.

Quantity Limits: None

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters**

None

8.2 Exposure control**8.2.1. Appropriate engineering controls**

None

8.2.2 Individual protection measures, such as personal protective equipment

The user as part of a formal exposure risk assessment should decide upon the provision of personal protective equipment and the need to provide engineering control measures. Based upon the available toxicological information the protective measures described below should be regarded as a minimum.

Eye/ face Protection: Safety glasses, to prevent eye exposure, are recommended to be used when handling the product. The protection should be capable of giving chemical protection as classified in EN166.

Skin Protection: Avoid contact with broken skin.

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Respiratory Protection: No special ventilation is usually necessary.**Hand Protection:** Avoid prolonged or frequent repeated skin contact especially with broken skin. Chemical protective gloves to a Standard EN374 should be provided. Usage periods should not exceed the breakthrough times for the chemical stated by the manufacturer of the glove.**9. PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

Appearance:	turbid liquid with deposit	
Odour:	Slight ammonia odour	
pH:	6,5 – 7,5	
Boiling Point/Boiling Range:	Not determined	
Melting Point/Melting Range:	Not applicable	
Flash Point:	Not determined	
Flammability (Solid, Gas):	Not applicable	
Autoflammability:	Not determined	
Explosive Properties:	Predicted not explosive based on chemical structure.	
Oxidising Properties:	Not determined	
Specific gravity:	1 @ 20°C	
Solubility	- Water solubility:	Complete
	- Fat solubility:	Not determined
Partition coefficient n-octanol/water:	Not determined	

9.2 Other information None available**10. STABILITY AND REACTIVITY****10.1 Reactivity** Not reactive**10.2 Chemical stability** Stable**10.3 Possibility of hazardous reactions**

If the substance is involved in a fire, oxides of carbon and nitrogen may be evolved

10.4 Conditions to avoid Temperature below 0°C**10.5 Incompatible materials** Strong acids or alkali compounds may inactivate biological cultures and strong oxidising agents.**10.6 Hazardous decomposition products**

None anticipated

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11. TOXICOLOGICAL INFORMATION**Acute toxicity**

Ingestion, LD50 Rat oral (mg/kg): Not determined

Inhalation, LC50 Rat inhalation (mg/l/4h): Not determined

Skin, LD50 Rat dermal (mg/kg) Not determined

Irritation

Eye irritation Not determined

Sensitisation

Not determined.

12. ECOLOGICAL INFORMATION

12.1 Toxicity: The preparation is not anticipated to pose any environmental hazard. No data on toxicity specifically to soil organisms, plants and terrestrial animals are available.

12.2 Persistence and Degradability: The preparation is expected to biodegrade rapidly. However no information on anaerobic biodegradation is available.

12.3 Bioaccumulative potential: Not anticipated to bioaccumulate due to high water solubility and hence, biomagnification is not likely.

12.4 Mobility in soil: No information available.

12.5 Results of PBT and vPvB assessment
No information available

12.6 Other adverse effects: There is no ozone depletion, photochemical ozone creation or global warming potential. Adverse effects in the sewage treatment plant are not anticipated.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods: Dispose of by incineration, landfill in accordance with local regulations.

14. TRANSPORT INFORMATION

14.1 UN number:
None.

14.2 UN proper shipping name:
None.

14.3 Transport hazard class(es):
Not applicable.

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14.4 Packing group:

Not applicable.

14.5 Environmental hazards:

None.

14.6 Special precautions for user:

None.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:

Not applicable.

15. REGULATORY INFORMATION**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Microbial classification**

All the bacteria contained in this formulation are of group 1 according to Directive 2000/54/EC (on the protection of workers from risks related to exposure to biological agents at work). Microorganisms from group 1 are unlikely to cause a human disease.

When handling the product, precautions described in Annex VI of Directive 2000/54/EC have to be taken into consideration in order to make a risk assessment.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out yet for this mixture.

16. OTHER INFORMATION**Sources:**

Detailed composition.

SDS of ingredients.

ECHA website: <http://echa.europa.eu/>

Safety/classification: http://www.baua.de/de/Themen-von-A-Z/Biologische-Arbeitsstoffe/TRBA/pdf/TRBA-466.pdf;jsessionid=4BE5B29D4CA8F29C28E34321F16B6719.1_cid380?_blob=publicationFile&v=6
<http://www.biosafety.be/GB/WPPProcGB.html>

Occupational exposure:

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2009:338:0087:0089:EN:PDF><http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2006:038:0036:0039:EN:PDF><http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=CONSLEG:2000L0039:20060301:EN:PDF><http://limitvalue.ifa.dguv.de/>

Version 4 – Revised points: 1-3 (2015-06-16)

The above information is based on the present state of our knowledge at the time of publication. It is given in good faith, no warranty is implied with respect to quality or specification of product. The user must satisfy himself that the product is entirely suitable.