

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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Date: 2015-06-16

Supersedes version from : 2013-01-09

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.

MATERIAL SAFETY DATA SHEET

In compliance with Regulation (EC) No. 1907/2006 (REACH)
as amended by Regulation (EC) No.453/2010

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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.

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/WPProcGB.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/>

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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.