

## Bacillus Ferment

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 /  
March 26, 2012 / Rules and Regulation

Revision Date: 05-12-2015  
Supersedes: 04-18-2015

### 1 PRODUCT & COMPANY IDENTIFICATION

<b>Product Name:</b>	Bacillus Ferment	<b>Distributor:</b>	MakingCosmetics, Inc.
<b>Chemical Name:</b>	Keratinase in enzymatic solution, nipastat, methylparaben, potassium sorbate	<b>Address:</b>	10800 231 <sup>st</sup> Way NE Redmond, WA 98053 (USA)
<b>INCI Name:</b>	Water, glycerin, propylene glycol, bacillus ferment	<b>Phone / Fax:</b>	425-292-9502 / 425-292-9601
<b>CAS Number:</b>	7732-18-5, 56-81-5, 57-55-6, 9014-01-1, 12765-62-7, 99-76-3, 590-00-1	<b>Web:</b>	www.makingcosmetics.com
<b>Formula:</b>	Not available	<b>Emergency Telephone Number: 1-800-424-9300 (Chemtrec)</b>	
<b>Product Form:</b>	Liquid		
<b>Product Use:</b>	Cosmetic use		

### 2 HAZARDS IDENTIFICATION

<b>GHS Classification:</b>	Not classified								
<b>GHS Labeling:</b>	Not a dangerous substance according to GHS								
<b>GHS Hazard Pictograms:</b>	None								
<b>GHS Hazard Statements:</b>	None								
<b>GHS Precautionary Statements:</b>	None								
<b>Potential Health Hazards:</b>	Eyes: No known hazard. Inhalation: No known hazard. Skin: No known hazard. Ingestion: May cause diarrhea.								
<b>NFPA Ratings (704):</b>	<table border="0"> <tr> <td>Health</td> <td>0</td> </tr> <tr> <td>Flammability</td> <td>0</td> </tr> <tr> <td>Reactivity</td> <td>0</td> </tr> <tr> <td>Specific Hazard</td> <td>n/a</td> </tr> </table>	Health	0	Flammability	0	Reactivity	0	Specific Hazard	n/a
Health	0								
Flammability	0								
Reactivity	0								
Specific Hazard	n/a								

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS No.</u>	<u>Weight %</u>	<u>Molecular Weight</u>
Water	7732-18-5	Proprietary	18.02
Glycerin	56-81-5	Proprietary	92.09
Propylene glycol	57-55-6	Proprietary	76.09
Bacillus ferment	9014-01-1	Proprietary	Not available

### 4 FIRST AID MEASURES

<b>Eyes:</b>	In case of eye contact, rinse with plenty of water and seek medical attention if necessary
<b>Inhalation:</b>	Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention if necessary.
<b>Skin:</b>	Flush with plenty of water and wash using soap.
<b>Ingestion:</b>	Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. Get medical attention if necessary.

### 5 FIRE-FIGHTING MEASURES

<b>Suitable (and unsuitable) extinguishing media:</b>	Product is not flammable. Use appropriate media (foam, carbon dioxide, dry chemical) for adjacent fire. Do not use water.
<b>Special protective equipment &amp; precautions for firefighters:</b>	Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.
<b>Specific hazards arising from the chemical:</b>	No known hazards known. See also Stability and Reactivity section.

## 6 ACCIDENTAL RELEASE MEASURES

<b>Personal precautions, protective equipment &amp; emergency procedures:</b>	See section 8 for recommendations on the use of personal protective equipment.
<b>Environmental precautions:</b>	Not available
<b>Methods and material for containment and cleaning up:</b>	Sweep up and place in suitable, closed containers for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations.

## 7 HANDLING & STORAGE

<b>Precautions for safe handling:</b>	See section 8 for recommendations on the use of personal protective equipment. Keep container closed when not in use.
<b>Conditions for safe storage, incl. any incompatibilities:</b>	Store in cool, dry well ventilated area. Keep away from incompatible materials (see section 10 for incompatibilities).

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Component</u>	<u>Exposure Limits</u>	<u>Basis</u>	<u>Entity</u>
Bacillus ferment	Not available		

TWA: Time Weighted Average over 8 hours of work.  
 TLV: Threshold Limit Value over 8 hours of work.  
 REL: Recommended Exposure Limit  
 PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes.  
 IDLH: Immediately Dangerous to Life or Health  
 WEEL: Workplace Environmental Exposure Levels  
 CEIL: Ceiling

### Personal Protection:

<b>Eyes:</b>	Not required, but wear chemical safety glasses or goggles.
<b>Inhalation:</b>	Not needed under normal conditions of use.
<b>Body:</b>	Slip proof shoes may be worn where spills may occur
<b>Other:</b>	Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling

## 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance, Physical State:</b>	Liquid	<b>Vapor Pressure:</b>	Not available
<b>Odor:</b>	Characteristic	<b>Vapor Density:</b>	Not available
<b>Taste:</b>	Not available	<b>Evaporation Rate:</b>	Not available
<b>Color:</b>	Brown	<b>Flammability Limits (% LFL):</b>	Not available
<b>Refractive Index (25°C):</b>	Not available	<b>Flash Point:</b>	>100°C (>212°F)
<b>pH</b>	5.5 - 7.0	<b>Upper/lower Explosive Limit:</b>	Not available
<b>Boiling Point:</b>	Not available	<b>Solubility:</b>	Water soluble
<b>Melting Point:</b>	Not applicable		
<b>Specific Gravity:</b>	1.10-1.25 g/cm <sup>3</sup>		

## 10 STABILITY AND REACTIVITY

<b>Reactivity:</b>	Product is stable
<b>Chemical Stability:</b>	Product is stable
<b>Hazardous Polymerization:</b>	Will not occur
<b>Conditions to Avoid:</b>	Avoid strong oxidizers
<b>Incompatible Materials:</b>	No known
<b>Hazardous Decomposition Products:</b>	No known
<b>Special Remarks:</b>	None

## 11 TOXICOLOGICAL INFORMATION

<b>Acute Toxicity (Glycerin):</b>	
<b>Skin:</b>	LD50 for skin absorption in rabbits is > 10,000 mg/kg

<b>Inhalation:</b>	LC50 for 60 hours in rats is > 4 mg/l
<b>Ingestion:</b>	Oral LD50 for rats is 17,000 to 27,211 mg/kg
<b>Carcinogenicity:</b>	Not available
<b>Teratogenicity:</b>	Not available
<b>Germ Cell Mutagenicity:</b>	Not available
<b>Embryotoxicity:</b>	Not available
<b>Specific Target Organ Toxicity:</b>	Not available
<b>Reproductive Toxicity:</b>	Not available
<b>Respiratory/Skin Sensitization:</b>	Not available

## 12 ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	Material is practically non-toxic to fish on an acute basis (LC50 > 100mg/l). Acute LG50 for fathead minnow ( <i>Pimphales promelas</i> ) is 44,000mg/l. Acute LD50 for goldfish ( <i>Carassius auratus</i> ) is > 5,000mg/l.
<b>Persistence and Degradability:</b>	Not available
<b>Bioaccumulative Potential:</b>	Not available
<b>Mobility in Soil:</b>	Not available
<b>PBT and vPvB Assessment:</b>	Not available
<b>Other Adverse Effects:</b>	Not available

## 13 DISPOSAL CONSIDERATIONS

<b>Waste Residues:</b>	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.
<b>Product Containers:</b>	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.

The information in section 13 is for the product as shipped. Use and/or alterations to the product may change the characteristics of the material and alter the waste classification and proper disposal methods

## 14 TRANSPORT INFORMATION

<b>DOT (Dept. of Transportation, USA):</b>	Not regulated
<b>TDG (Transportation of Dangerous Goods, Canada):</b>	Not regulated
<b>IMDG (International Maritime Dangerous Goods):</b>	Not regulated
<b>IATA (International Air Transport Association):</b>	Not regulated
<b>ICAO (International Civil Aviation Organization):</b>	Not regulated

## 15 REGULATORY INFORMATION

<b>TSCA Inventory Status:</b>	This material is intended to be used as a cosmetic ingredient and is exempt from Toxic Substances Control Act (TSCA) regulation (40 CFR 710) when used as such. Do not use for other purposes.
<b>DSCL (EEC):</b>	This material is not classified as Dangerous according to the health and physical properties criteria of the EU Directives on the classification of substances and preparation.

## 16 OTHER INFORMATION

<b>Revision Date:</b>	05-12-2015
<b>Compliance:</b>	This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200
<b>Disclaimer:</b>	This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.