

# Material Safety Data Sheet



Authorization date: 07/08/1999  
Revision date: 09/17/2009  
Print Date: 09/17/2009  
Version: 0

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

**Product name:** RESTRICTION ENDONUCLEASE AFL III  
**Product number:** 1209183  
**Global material number:** 11209183001  
**Business area:** Roche Applied Sciences  
**Product line:** Not applicable  
**Instrument type:** Not applicable  
**Supplier:** Roche Diagnostics Corporation  
9115 Hague Road  
Indianapolis, IN 46250  
Site Phone Number: 1-800-428-5074  
**Emergency telephone number:** CHEMTREC:  
1-800-424-9300 (U.S. or Canada)  
1-703-527-3887 (International)

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Description 1: Bottle 1

Components	CAS Number	Weight %	OSHA PEL:	OSHA STEL:	ACGIH TLV:	ACGIH STEL:
Glycerol	56-81-5	50 - 60	15 mg/m <sup>3</sup> total 5 mg/m <sup>3</sup>	NA	10 mg/m <sup>3</sup>	NA

## 3. HAZARDS IDENTIFICATION

### Emergency Overview

**NFPA Ratings:** Health= 1 Flammability= 0 Reactivity= 0 Special= I

**Special Definitions:** A=Allergen CA=Carcinogen CO=Corrosive F=Flammable H=Harmful I=Irritant Ox=Oxidizer PB=Potential Biohazard R=Reproductive S=Sensitizer T=Toxic T+=Highly Toxic W=Water Reactive

**Principle routes of exposure:** Ingestion, skin and/or eye contact.  
**Inhalation:** None.  
**Ingestion:** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.  
**Skin contact:** None.  
**Eye contact:** May cause irritation.  
**Sensitization or Odor threshold:** None.  
**Medical conditions aggravated by exposure:** None known  
**Additional information:** None

## 4. FIRST AID MEASURES

**Inhalation:** Consult a physician. Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.  
**Skin contact:** Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.  
**Ingestion:** Call a physician immediately. Do not induce vomiting without medical advice.  
**Eye contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
**Notes to physician:** None determined

## 5. FIRE-FIGHTING MEASURES

<b>Suitable extinguishing media:</b>	Use dry chemical, CO <sub>2</sub> , water spray or "alcohol" foam.
<b>Unusual hazards:</b>	None known.
<b>Special protective equipment for firefighters:</b>	In the event of fire, wear self-contained breathing apparatus.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions:</b>	Use personal protective equipment. Evacuate personnel to safe areas. Remove all sources of ignition.
<b>Environmental precautions:</b>	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Do not let product enter drains.
<b>Methods for cleaning up:</b>	Never return spills in original containers for re-use. Soak up with oil absorbent material. Sweep up or vacuum (if powder) or soak up with inert absorbent material (if liquid), then place into a suitable clean, dry, closed container, and label for disposal.

## 7. HANDLING AND STORAGE

<b>Handling:</b>	Protect from contamination. Wear personal protective equipment.
<b>Storage:</b>	No special precautions required.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Engineering measures:</b>	Not applicable.
<b>Personal Protective Equipment</b>	
<b>Respiratory protection:</b>	Respiratory protection is not required under normal use of this product. If respiratory protection is needed, follow the OSHA regulation, 29CFR1910.134. Always use a NIOSH approved respirator when necessary.
<b>Hand protection:</b>	Wear appropriate protective gloves to prevent skin contact. Replace torn or punctured gloves promptly.
<b>Skin and body protection:</b>	Wear appropriate body protection to prevent skin contact.
<b>Eye protection:</b>	Wear appropriate eye protection to prevent eye contact.
<b>Hygiene measures:</b>	When using, do not eat, drink or smoke. Keep away from food and drink. Wash hands before breaks and at the end of workday.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Boiling point/range:</b>	No information available
<b>Melting point/range:</b>	Not determined
<b>pH:</b>	Not determined
<b>Physical state:</b>	Not determined.
<b>Flash point:</b>	No information available.
<b>LEL (%):</b>	Not determined
<b>UEL (%):</b>	Not determined

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under recommended storage conditions.
<b>Polymerization:</b>	None under normal processing.
<b>Hazardous decomposition products:</b>	No data available.
<b>Materials to avoid:</b>	Incompatible with strong acids and bases. Oxidising agents (strong).

## 11. TOXICOLOGICAL INFORMATION

Components	NIOSH - Selected LD50s and LC50s:	NIOSH Pocket Guide - Target Organs:
Glycerol	=12600 mg/kg Oral LD50 Rat >21900 mg/kg Dermal LD50 Rat >570 mg/m <sup>3</sup> Inhalation LC50 Rat 1h	respiratory system skin eyes kidneys

**Inhalation:** No additional data available

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**Skin:** No additional data available  
**Oral:** No additional data available  
**Mutagenic effects:** No data is available on the product itself  
**Reproductive toxicity:** No data is available on the product itself

## 12. ECOLOGICAL INFORMATION

**Bioaccumulation:** Not determined  
**Aquatic toxicity:** No data is available on the product itself  
**Ecotoxicity effects:** No data is available on the product itself

**U.S. EPA, RCRA, CERCLA, SARA, or DGC information on persistent, bioaccumulative, and toxic chemicals (PBTs):**  
 The following chemicals are listed under the U.S. EPA regulations of RCRA, CERCLA, SARA, or DGC:

## 13. DISPOSAL CONSIDERATIONS

**Waste from residues / unused products:** Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Residue from fires extinguished with this material may be hazardous.

## 14. TRANSPORT INFORMATION

**Is product hazardous to ship?** No.  
**DOT**

<b>Proper shipping name:</b> None			
<b>UN Number:</b> Not applicable	<b>Hazard class:</b> Not applicable	<b>Subsidiary risk:</b> Not applicable	<b>Packing group:</b> Not applicable

### ICAO/IATA

<b>Proper shipping name:</b> None			
<b>UN Number:</b> Not applicable	<b>Hazard class:</b> Not applicable	<b>Subsidiary risk:</b> Not applicable	<b>Packing group:</b> Not applicable

## 15. REGULATORY INFORMATION

### U.S. Regulations:

**U.S. CERCLA/SARA/TSCA Regulatory Information:** The following chemicals are listed under the following TSCA/SARA/CERCLA lists. Refer to TSCA regulation if you need a definition for acronyms that may be shown in the TSCA Inventory field in the table below

Components	CERCLA/SARA 302 RQ and TPQ (40 CFR 355, App.A)	CERCLA/SARA 304 RQ (40 CFR Table 302.4)	SARA 313 Emission reporting	TSCA Inventory
Glycerol				Present

**U.S. Clean Water Act (CWA)/ California Proposition 65:** The following chemicals are listed under the CWA and/or California Proposition 65:

### Canadian Regulations:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Components	Canada - WHMIS: Classifications of Substances:
Glycerol	Uncontrolled product according to WHMIS classification criteria

## 16. OTHER INFORMATION

**Reason for revision:** Not applicable  
**References:** None.  
**Additional advice:** None

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## 16. OTHER INFORMATION

**Prepared by:**

Roche Diagnostics, Health & Safety Department, MSDS Contact: 317-521-7425 or 317-521-7505

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**End of Safety Data Sheet**