Material Safety Data Sheet

Date 10/20/13

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1. PRODUCT

Product name:	Biotin-Actin (rabbit skeletal muscle)	Biotin-Actin (bovine cardiac muscle)
Hypermol product number:	8109-01;	8209-01;

1.2 . USE

Laboratory chemical, for research use only. Not for use in human or veterinary therapeutic or diagnostic processes.

1.3. MANUFACTURER AND SUPPLIER OF THE SAFETY DATA SHEET

Hypermol EK
Theesener Str. 7a
D 33739 Bielefeld, Germany

Phone: 0049-521-9876226
FAX: 0049-521-9876227

1.4. EMERGENCY TELEPHONE NUMBER
Poison Centre Munich +49(0)8919240

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SECTION 2: HAZARDS IDENTIFICATION

2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

This product is not hazardous according to Regulation 1272/2008/EC.
Not classified as dangerous according to Directive 67/548/EEC.
Significant effects or critical hazards are not expected when the recommended instructions for use are followed.
Swallowing or contact with eyes and skin may cause moderate (but insufficient to be classified) mechanical irritations to sensitive persons.

2.2. LABEL ELEMENTS

No label required in accordance with EC directives.

2.3. OTHER HAZARDS

Not known

SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

3.1. SUBSTANCES

Major component: Mixture of purified actin protein from rabbit skeletal muscle, chemically coupled to pyrene (10%), and uncoupled actin (90%).
No further components need to be disclosed according to the applicable regulations

SECTION 4: FIRST AID MEASURES

4.1. DESCRIPTION OF FIRST AID MEASURES

Skin contact	Wash off immediately with sop and plenty of water. If symptoms persist, call a physician.
Eye contact	Rinse thoroughly with plenty of water for several minutes, also under the eyelids. If symptoms persist, call a physician.
Ingestion	Rinse mouth with water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
Inhalation	Move to fresh air. If symptoms persist, call a physician.
Notes to physician	Treat symptomatically.

4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

No data available

4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

No data available

SECTION 5: FIRE FIGHTING MEASURES

5.1. EXTINGUISHING MEDIA water, carbon dioxide, foam, or dry chemical

5.2. SPECIAL FIRE FIGHTING PROCEDURES none

5.3. SPECIAL ADVICE FOR FIRE FIGHTERS none

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. PERSONAL PRECAUTIONS Use personal protective equipment. Ensure adequate ventilation.

6.2. ENVIRONMENTAL PRECAUTIONS Do not let the product into drains. Prevent further spillage if safe to do so.

6.3. METHODS FOR CLEANING UP Take up mechanically and collect in suitable container for disposal.

6.4. REFERENCE TO OTHER SECTIONS For disposal see section 13.

SECTION 7: HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLING Avoid contact with skin and eyes. Avoid inhalation. No specific handling instructions.

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7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES Keep in properly labelled containers. Keep containers tightly closed. Recommended storage temperature: below – 20°C.

7.3. SPECIFIC END USES no data available

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1. EXPOSURE LIMITS Contains no substances with occupational exposure limit values.

8.2. EXPOSURE CONTROLS

Personal protective equipment Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment
Safety glasses with side shields
Impervious gloves
Lightweight protective clothing

Environmental exposure control Prevent product from entering drains

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Form: lyophilized white powder
Boiling point: no data available
Melting point: no data available
Flash point: no data available
Self-igniting: no data available
Danger of explosion: product is not explosive
Water solubility: water soluble

9.2. OTHER SAFETY INFORMATION: no data available

SECTION 10: STABILITY AND REACTIVITY

10.1. REACTIVITY no data available

10.2. CHEMICAL STABILITY stable under recommended storage conditions

10.3. POSSIBILITY OF HAZARDOUS REACTIONS no data available

10.4. CONDITIONS TO AVOID no data available

10.5. INCOMPATIBLE MATERIALS strong acids, strong oxidizing agents, metals

10.6. HAZARDOUS DECOMPOSITION PRODUCTS no data available

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. INFORMATION ON TOXICOLOGICAL EFFECTS no data available
may be harmful if inhaled or ingested.
may cause irritations of skin or eye upon contact.

SECTION 12: ECOLOGICAL INFORMATION

12.1. TOXICITY no data available

12.2. PERSISTENCE AND DEGRADABILIY no data available

12.3. BIOACCUMULATIVE POTENTIAL no data available

12.4. MOBILITY IN SOIL no data available

12.5. RESULTS OF PBT and vPvB ASSESSMENT no data available

12.6. OTHER ADVERSE EFFECTS no data available. May be harmful to aquatic life.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste must be disposed in accordance with the local environmental control regulations.

SECTION 14: TRANSPORT INFORMATION

14.1. UN-Number no information available

14.2. UN PROPER SHIPPING NAME not dangerous goods

14.3. HAZARD CLASS no information available

14.4. PACKAGING GROUP no information available

14.5. ENVIRONMENTAL HAZARDS no information available

SECTION 15: REGULATORY INFORMATION

The product is classified and labelled in accordance with Regulation 1907/2006/EC.

15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE
no data available

15.2. CHEMICAL SAFETY ASSESSMENT
R-phrase(s)
no data available
S-phrase(s)
no data available

SECTION 16: OTHER INFORMATION

The above information was acquired by careful investigation and is provided in good faith. Hypermol makes no representation as to its comprehensiveness or accuracy. The information shall not be taken as being all inclusive and should be taken only as a guide. All substances described here may contain unknown hazards, and should be used with professional caution. Since Hypermol cannot control the actual conditions of use and handling, it shall not be held liable for any damages resulting from the use of or reliance upon this information.

END OF MSDS