

# Material Safety Data Sheet

Date 10/20/13

## SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### 1.1. PRODUCT

**Product name:** Pyrene G-Actin 10%  
**Hypermol product number:** 8102-01; 8104-01;

### 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 Phone: 0049-521-9876226  
Theesener Str. 7a FAX: 0049-521-9876227  
D 33739 Bielefeld, Germany

### 1.4. EMERGENCY TELEPHONE NUMBER

Poison Centre Munich +49(0)8919240

## 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

<b>Skin contact</b>	Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.
<b>Eye contact</b>	Rinse thoroughly with plenty of water for several minutes, also under the eyelids. If symptoms persist, call a physician.
<b>Ingestion</b>	Rinse mouth with water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
<b>Inhalation</b>	Move to fresh air. If symptoms persist, call a physician.
<b>Notes to physician</b>	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.
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
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## **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 DEGRADABILITY**      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**