

Conforms to 93/112/EC and ISO 11014-1

Responsible Name Company2

? **Section 1. Chemical Product and Company Identification**

**Product name** O-Methylisourea Hemisulfate (OMI), 400mg

**Product No.** 1859619

<b>Supplier</b>	<b>In USA:</b> Pierce P.O. Box 117 Rockford, IL 61105 USA 815.968.0747 or 1.800.874.3723	<b>In Europe:</b> Perbio Science Industriezone III Industrielaan 27 9320 Erembodegem-Aalst Belgium Tel:+32 53 83 44 04 Fax:+32 53 83 76 38	<b>Manufacturer</b>	Pierce Biotechnology P.O. Box 117 Rockford, IL 61105 USA 815.968.0747 or 1.800.874.3723
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**In Case of Emergency** CHEMTREC:  
800.424.9300  
OUTSIDE US:  
202.483.7616

**Print Date** 12/22/2004  
**Validation Date** 12/22/2004  
**MSDS#** 7228

**Intended Use** Refer to the instruction booklet for proper and intended use. Otherwise, contact supplier for specific applications.

 **Section 2. Composition, Information on Ingredients**

**Substance/Preparation** : Substance

No hazardous ingredient according to 29 CFR 1910.1200 Hazard Communication Standard (USA) and Directives 1999/45/EC-2001/59/EC (EU)

 **Section 3. Hazards Identification**

**United States** Review the most current and approved institutional guideline, protocol, standard operating procedure(s) and MSDS(s) for the proper handling of institutional materials/equipment associated with the use of this product.

**Emergency Overview** No specific hazard.  
Not applicable.  
Not applicable.

**Routes of Entry** Not available.

**Potential acute health effects**

**Eyes** No known significant effects or critical hazards.

**Skin** No known significant effects or critical hazards.

**Inhalation** No known significant effects or critical hazards.

**Ingestion** Practically non-toxic if swallowed.

**Potential chronic health effects**

**Carcinogenic Effects Data**

**CARCINOGENIC EFFECTS:** Not available.

**MUTAGENIC EFFECTS:** Not available.

**TERATOGENIC EFFECTS:** Not available.

**Medical Conditions Aggravated by Overexposure:** Repeated or prolonged exposure is not known to aggravate medical condition.

**Overexposure /Signs/Symptoms** Not available.

**Europe**

**Classification** Not classified.

**Physical/chemical hazards** Not applicable.

**Human health hazards** Not applicable.

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*Environmental hazards* Not applicable.

See Toxicological Information (section 11)

## **+ Section 4. First Aid Measures**

### **Effects and symptoms**

*Inhalation* Not available.

*Ingestion* Not available.

*Skin Contact* Not available.

*Eye Contact* Not available.

*Aggravating conditions* Repeated or prolonged exposure is not known to aggravate medical condition.

### **First-Aid Measures**

*Inhalation* In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

*Ingestion* Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.

*Skin Contact* In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

*Eye Contact* In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

*Notes to Physician* Not available.

*Protection of first-aiders* Not available.

## **Section 5. Fire Fighting Measures**

*Flammability of the Product* Non-flammable.

*Flash Points* Not applicable.

*Fire Hazards in Presence of Various Substances* Not applicable.

*Fire Fighting Media and Instructions* Use an extinguishing agent suitable for surrounding fires.

Not available.

*Protective Clothing (Fire)* Not applicable.

*Hazardous thermal (de)composition products* Not applicable.

## **Section 6. Accidental Release Measures**

*Personal precautions* Safety glasses. Lab coat.

*Environmental Precautions and Clean-up Methods* Use a shovel to put the material into a convenient waste disposal container.

*Small Spill and Leak* Use appropriate tools to put the spilled solid in a convenient waste disposal container.

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## ◆ Section 7. Handling and Storage

**Handling** Wash thoroughly after handling.

**Storage** Keep container tightly closed. Keep container in a cool, well-ventilated area.

**Intended Use** Refer to the instruction booklet for proper and intended use. Otherwise, contact supplier for specific applications.

**Packaging materials**

**Suitable / Not suitable** Use original container.

## Section 8. Exposure Controls/Personal Protection

**Engineering Controls** Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

### Exposure Limit Values

Ingredient Name

Occupational Exposure Limits

United States

### Personal Protection

**Eyes** Splash goggles.

**Body** Lab coat.

**Hands** Gloves.

**Respiratory** Respirator is not needed under normal and intended conditions of use, if exposures are kept below established limits.

Protective Clothing  
(Pictograms)



## 🧪 Section 9. Physical and Chemical Properties

**Physical State and Appearance** Solid. (Crystalline solid.)

**Color** White.

**Odor** Not available.

**Molecular Weight** 123.18 g/mole

**Taste** Not available.

**Molecular Formula** C<sub>2</sub>H<sub>6</sub>N<sub>2</sub>O·0.5H<sub>2</sub>SO<sub>4</sub>

**Melting/Freezing Point** 148 to 157°C (298.4 to 314.6°F)

**LogK<sub>ow</sub>** The product is more soluble in water; log(octanol/water) =0.67

**Dispersion Properties** Not available.

**Solubility** Not available.

## 🧴 Section 10. Stability and Reactivity

**Stability and Reactivity** The product is stable.

**Conditions to avoid** Not available.

**Materials to avoid** Reactive with oxidizing agents.

**Hazardous Polymerization** Will not occur.

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# O-Methylisourea Hemisulfate (OMI), 400mg

*Hazardous Decomposition Products* Not available.



## Section 11. Toxicological Information

*Toxicity to Animals* **O-Methylisourea hemisulfate:**

ORAL (LD50):

Acute: 3700 mg/kg [Rat].

*Chronic Effects on Humans* Not available.

*Other Toxic Effects on Humans* No specific information is available in our database regarding the other toxic effects of this material for humans.

*Special Remarks on Toxicity to Animals* Not available.

*Special Remarks on Chronic Effects on Humans* Not available.

*Special Remarks on Other Toxic Effects on Humans* Not available.

*Carcinogenicity* No known significant effects or critical hazards.

*Mutagenicity* No known significant effects or critical hazards.

*Reproductive toxicity* No known significant effects or critical hazards.

### Over-exposure signs/symptoms

*Inhalation* No known significant effects or critical hazards.

*Ingestion* No known significant effects or critical hazards.

*Skin* No known significant effects or critical hazards.



## Section 12. Ecological Information

*Mobility* Not available.

*Persistence/degradability* Not available.

*Bioaccumulative potential* Not available.

*Ecotoxicity* Ecotoxicity in water: 2.425 mg/l [LC50], 48 hour(s) [Fish].

*Germany water class* VCI WGK: No products were found.

### Ecotoxicity data

#### Ingredient name

O-Methylisourea hemisulfate

#### Species

Fish (LC50)

#### Period

48 hour(s)

#### Result

2.425 mg/l

### Other ecological information

#### Persistence/degradability

#### Ingredient name

#### BOD<sub>5</sub>

#### COD

#### Ingredient name

#### Aquatic half-life

#### Photolysis

### Bioaccumulative potential

#### Ingredient name

O-Methylisourea hemisulfate

#### LogP<sub>ow</sub>

0.67

#### BCF

-

low

*Mobility* : Not available.

*Other adverse effects* : No known significant effects or critical hazards.

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## Section 13. Disposal Considerations

**Waste Stream** Not available.

**Methods of disposal** The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

**European waste catalogue (EWC)** Not available.

**Hazardous waste** To present knowledge of the supplier, this product is not regarded as hazardous waste as defined by EU Directive 91/689/EC.

**Denmark – Carcinogenic waste** Not available.

**Denmark - Waste card number** Not available.

**Denmark - Waste group** Not available.

**Sweden - thermoset plastic waste** Not available.

**Sweden - Waste group** Not available.

**Austria - Waste catalogue** Not available.

**Norway - Waste number** Not available.

**Norway - Hazardous waste** To present knowledge of the supplier, this product is not regarded as hazardous waste as defined by SFT's Directive on special waste.

**Switzerland - Waste code** Not available.

## Section 14. Transport Information

Contact the supplier for all information regarding the proper transportation method for this material.



## Section 15. Regulatory Information

### Label Requirements (Europe)

This product is not classified according to the EU regulations.

**HCS Classification** Not regulated.

**U.S. Federal Regulations** TSCA: No products were found.

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: No products were found.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: No products were found.

Clean air act (CAA) 112 accidental release prevention: No products were found.

Clean air act (CAA) 112 regulated flammable substances: No products were found.

Clean air act (CAA) 112 regulated toxic substances: No products were found.

**State regulations** No products were found.

**WHMIS (Canada)** Not controlled under WHMIS (Canada).

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No products were found.

*International Regulations*

*EINECS* Not available.

*DSCL (EEC)* This product is not classified according to the EU regulations.

*International Lists* No products were found.

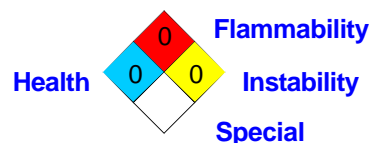
*State Regulations* No products were found.

**Section 16. Other Information**

**Hazardous Material  
Information System  
(U.S.A.)**

<b>Health</b>	0
<b>Fire hazard</b>	0
<b>Reactivity</b>	0
<b>Personal protection</b>	C

**National Fire Protection  
Association (U.S.A.)**



*References* Not available.

*History of Document Changes* Any information changes since last document version are marked with a triangle symbol. 

*Intended Use* Refer to the instruction booklet for proper and intended use. Otherwise, contact supplier for specific applications.

Validated by Company2 on 12/22/2004.

Verified by Company2.

Date of Previous Issue No Previous Validation

Printed 12/22/2004.

Version 1.01

**Notice to Reader**

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