

JUL-29-2009 11:18A FROM:AMT

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TO: 919498627893

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Creative Sleep Solutions

**TAP 3 Stainless Steel Assembly  
(Catamold 316L A)**

**1. Composition/Information on ingredients**

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical Name</u>
7439-89-6	60.0-80.0%	Carbonyl iron powder
7440-47-3	10.0-20.0%	Chromium
7440-02-0	7.0-15.0%	Nickel
25214-85-1	5.0-10.0%	Polyoxymethylene copolymerizate (POM)
7439-98-7	1.0-5.0%	Molybdenum

**2. Hazard Identification**

Emergency overview

CAUTION: MAY CAUSE EYE, SKIN, AND RESPIRATORY TRACT IRRITATION INGESTION MAY CAUSE GASTRIC DISTURBANCES.

Avoid contact with the skin, eyes and clothing.

Avoid inhalation of dusts/mists/vapours.

Use with local exhaust ventilation.

Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.

Wear NIOSH-certified chemical goggles.

Wear chemical resistant protective gloves.

Wear protective clothing.

Eye wash fountains and safety showers must be easily accessible.

Potential health effects

Primary routes of exposure

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Irritation:

Irritating to eyes and skin.

Medical conditions aggravated by overexposure:

Data available do not indicate that there are medical conditions that are generally recognized as being aggravated by exposure to this substance/product.

See MSDS section 10-Toxicological information.

**3. First Aid Measures**

General Advice:

Remove contaminated clothing.

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**If inhaled:**

Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary. Immediate medical attention required.

**If on skin:**

Wash affected areas thoroughly with soap and water. If irritation develops, seek medical attention.

**If in eyes:**

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Seek medical attention.

**If swallowed:**

Rinse mouth and then drink plenty of water. Induce vomiting. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Immediate medical attention required.

**4. Fire-fighting Measures**

**Flash Point:** No data available

**Auto-ignition:** 450°C

**Suitable extinguishing media:**

Water, dry extinguishing media, carbon dioxide, foam

**Hazards during fire-fighting:**

No particular hazards known.

**Protective equipment for fire-fighting:**

Firefighters should be equipped with self contained breathing apparatus and turn out gear.

**NFPA hazard Codes:**

Health :1    Fire:0    Reactivity: 0    Special:

**5. Accidental Release Measures**

**Personal Precautions:**

Avoid contact with skin and eyes. Ensure adequate ventilation. Avoid dust formation. Wear appropriate respiratory protection.

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**Environmental Precautions:**

Suppress gases/vapours/mists with water spray jet. Wet down dust with water spray jet.

**Cleanup:**

Spills should be contained and placed in suitable containers for disposal.

**6. Handling and Storage**

**Handling:**

General Advice: Avoid dust formation. Upon mechanical load the product can release sensitizing substances.

Protection against fire and explosion: No explosion proofing necessary.

**Storage:**

General advice: keep container tightly closed.

Storage stability: protect against moisture.

**7. Exposure controls and personal protection**

Components with workplace control parameters

Chromium	OSHA	PEL 1 MG/M3 (chromium (Cr)).
	ACGIH	TWA value 0.5 mg/m3 (Chromium (Cr));
Nickel	OSHA	PEL 1 mg/m3 (Nickel (Ni));
	ACGIH	TWA value 1.5 mg/m3 inhalable fraction;
Molybdenum	OSHA	PEL 15mg/m3 total dust (molybdenum (Mo));
	ACGIH	TWA value 10mg/m3 inhalable fraction (molybdenum (Mo)); TWA value 3mg/m3 Respirable fraction (molybdenum (Mo));

Advice on system design:

Provide local exhaust ventilation to maintain recommended PEL.

Personal protective equipment

Respiratory protection:

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Wear a NIOSH certified (or equivalent) particulate respirator. Do not exceed the maximum use concentration for the respirator facepiece/ cartridge combination. Observe OSHA regulations for respirator use (29 CFR 1910.134).

**Hand Protection:**

Chemical resistant protective gloves, Consult with glove manufacturer for testing data.

**Eye Protection:**

Tightly fitting safety goggles.

**General safety and hygiene measures:**

No special measures necessary if stored and handled correctly. Wear protective clothing as necessary to prevent contact. Avoid inhalation of dust. Wash soiled clothing immediately.

**8. Physical and Chemical Properties**

Form:	fine particles
Odor:	odorless
Color:	grey to black
Melting Point:	165°C
Density:	5.3-5.8g/cm <sup>3</sup> (20°C)
Bulk density:	2800-3200 kg/m <sup>3</sup>
Solubility in water:	insoluble

**9. Stability and Reactivity**

Conditions to avoid: No conditions to avoid anticipated.

Substances to avoid: No substances known that should be avoided.

Hazardous reactions: The product is chemically stable.

Decomposition products: formaldehyde, carbon monoxide

Thermal decomposition >200°C

Corrosion to metals: corrosion effects to metal are not anticipated.

**10. Toxicological Information**

Chronic toxicity.

Other Information: Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

**11. Ecological Information**

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Environmental fate and transport

Biodegradation:

Evaluation: The product is not very soluble in water and can thus be removed from water mechanically in suitable effluent treatment pits.

12. Disposal Considerations

Waste disposal of substance:

Dispose of in accordance with national, state, and local regulations. Dispose of in a licensed facility. Do not discharge into waterways or sewer systems without proper authorization.

Container disposal:

Dispose of in a licensed facility. Recommend crushing, puncturing, or other means to prevent authorized use of used containers.

13. Transport Information

Land transport: USDOT

Sea transport: IMDG

Air transport: IATA/ICAO

Not classified as a dangerous good under transport regulations.

14. Regulatory Information

Federal regulations

Registration status: TSCA, US released /listed

OSHA hazard category: ACGIH TLV established, acute target organ effects reported, IARC 1, 2A or 2B carcinogen, OSHA PEL established, NTP listed carcinogen

<u>CERCLA RC</u>	<u>CAS NUMBER</u>	<u>CHEMICAL NAME</u>
5000 LBS	7440-47-3	CHROMIUM
100 LBS	7440-02-0	NICKEL

SARA HAZARD CATEGORIES (EPCRA 311/312): ACUTE/CHRONIC

SARA 312:

<u>CAS NUMBER</u>	<u>CHEMICAL NAME</u>
7439-96-5	MAGANESE
7440-02-0	NICKEL
7440-47-3	CHROMIUM

STATE REGULATIONS

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State RTK

CAS NUMBER

7440-47-3

7440-02-0

7439-98-7

CHEMICAL NAME

CHROMIUM

NICKEL

MOLYBDENUM

State RTK

MA, NJ, PA

MA, NJ, PA

MA, NJ, PA

CA prop. 65:

This product contains a chemical (s) known to the state of California to cause cancer.

**15. Other Information**

HMIS III RATING

Health: 1    Flammability: 0    Physical Hazard: 0

HMIS uses a numbering scale from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of 4 indicates high hazard.

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The Chemical Company

AMI  
PORTION OF TAP 3 UPPER ASSY.

## Safety data sheet

### Catamold® 17-4PH F

Revision date : 2008/07/31  
Version: 1.0

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(30398123/MDS\_GEN\_US/EN)

#### 1. Substance/preparation and company identification

Company  
BASF CORPORATION  
100 Campus Drive  
Florham Park, NJ 07932

24 Hour Emergency Response Information  
CHEMTREC: 1-800-424-9300  
BASF HOTLINE: 1-800-832-HELP

#### 2. Composition/information on ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
7430-89-6		Carbonyl iron powder
7440-47-5		chromium
110-88-8		1,3,5-trioxane
7440-02-0		Nickel
7440-50-8		copper
170617-34-2		1,3-Dioxanane, telomer with 1,1'-(methylenebis(oxy)bis)butane)

#### 3. Hazard identification

##### Emergency overview

**WARNING:** Causes eye irritation.  
Contains a suspect carcinogen.  
May cause sensitization by skin contact.  
**INGESTION MAY CAUSE GASTRIC DISTURBANCES.**  
Avoid contact with the skin, eyes and clothing.  
Avoid inhalation of dusts.  
Use with local exhaust ventilation.  
Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.  
Wear NIOSH-certified chemical goggles.  
Wear chemical resistant protective gloves.  
Wear protective clothing.  
Eye wash fountains and safety showers must be easily accessible.

##### Potential health effects

##### Primary routes of exposure

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases

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## Safety data sheet

### Catamold® 17-4PH F

Revision date : 2008/07/31  
Version: 1.0

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(30398128/MDS\_GEN\_US/EN)

#### 4. First-aid measures

**If inhaled:**

Remove the affected individual into fresh air and keep the person calm. If breathing difficulties develop, aid in breathing and seek immediate medical attention.

**If on skin:**

Wash affected areas thoroughly with soap and water. If irritation develops, seek medical attention.

**If in eyes:**

Wash affected eyes for at least 15 minutes under running water with eyelids held open. If irritation develops, seek immediate medical attention.

**If swallowed:**

Rinse mouth and then drink plenty of water. Induce vomiting. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Seek medical attention.

#### 5. Fire-fighting measures

Autoignition: 440 °C

**Suitable extinguishing media:**  
water spray, foam, carbon dioxide

**Hazards during fire-fighting:**  
Formaldehyde, can be emitted at > 200 °C

**Protective equipment for fire-fighting:**  
Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

**NFPA Hazard codes:**  
Health: 2 Fire: Reactivity: 0 Special:

#### 6. Accidental release measures

**Personal precautions:**  
Avoid contact with skin and eyes. Ensure adequate ventilation. Avoid dust formation. Wear appropriate respiratory protection.

**Environmental precautions:**  
Suppress gases/vapours/mists with water spray jet. Wet down dust with water spray jet.

**Cleanup:**

For small amounts: Pick up with suitable appliance and dispose of.  
For residues: Pick up with suitable appliance and dispose of.

#### 7. Handling and storage

**Handling**

**General advice:**  
Avoid dust formation. Upon mechanical load the product can release sensitizing substances.

**Protection against fire and explosion:**  
The product is capable of dust explosion.

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## Safety data sheet

### Catamold® 17-4PH F

Revision date : 2009/07/31  
Version: 1.0

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(30398128/MDS GEN US/EN)

#### Storage

General advice:  
Keep container dry.

### 8. Exposure controls and personal protection

#### Components with workplace control parameters

chromium	OSHA	PEL 1 mg/m <sup>3</sup> (Chromium (Cr));
	ACGIH	TWA value 0.5 mg/m <sup>3</sup> (Chromium (Cr));
Nickel	OSHA	PEL 1 mg/m <sup>3</sup> (Nickel (Ni));
	ACGIH	TWA value 1.5 mg/m <sup>3</sup> Inhalable fraction ;
copper	OSHA	PEL 1 mg/m <sup>3</sup> Dust and mist (copper (Cu));

#### Personal protective equipment

**Respiratory protection:**  
Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator. Observe OSHA regulations for respirator use (29 CFR 1910.134).

**Eye protection:**  
Tightly fitting safety goggles (chemical goggles).

**General safety and hygiene measures:**  
No eating, drinking, smoking or tobacco use at the place of work. Handle in accordance with good industrial hygiene and safety practice.

### 9. Physical and chemical properties

Form:	granules	
Odour:	odourless	
Colour:	gray	
Melting point:	165 °C	
Density:	4.7 - 5.1 g/cm <sup>3</sup>	(15 °C)
Bulk density:	2,700 - 3,100 kg/m <sup>3</sup>	
Solubility in water:		insoluble

### 10. Stability and reactivity

**Substances to avoid:**  
Inorganic acids, plastics containing halogenated flame retardants

**Hazardous reactions:**  
Strong exothermic reaction with acids. May decompose violently.

**Decomposition products:**  
Hazardous decomposition products: Formaldehyde

**Thermal decomposition:**  
> 200 °C  
Thermal decomposition above the indicated temperature is possible.

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# Safety data sheet Catamold® 17-4PH F

Revision date : 2008/07/31  
Version: 1.0

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(30398128/MDS\_GEN\_US/EN)

## 11. Toxicological information

### Chronic toxicity

#### Other information:

Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses

## 12. Ecological information

### Environmental fate and transport

#### Biodegradation: Evaluation:

The product is not very soluble in water and can thus be removed from water mechanically in suitable effluent treatment plants.

## 13. Disposal considerations

#### Waste disposal of substance:

Dispose of in accordance with national, state and local regulations.

#### Container disposal:

Dispose of container and any residue in an environmentally safe manner. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

## 14. Transport information

#### Land transport USDOT

Not classified as a dangerous good under transport regulations

#### Sea transport IMDG

Not classified as a dangerous good under transport regulations

#### Air transport IATA/ICAO

Not classified as a dangerous good under transport regulations

## 15. Regulatory information

### Federal Regulations

#### Registration status:

released / listed

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# Safety data sheet Catamold® 17-4PH F

Revision date : 2008/07/31

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(00398128/MDS\_GEN\_US/EN)

Version: 1.0

OSHA hazard category: IARC 1, 2A or 2B carcinogen, NTP listed carcinogen, Chronic target organ effects reported, ACGIH TLV established

CECCLA RO	CAS Number	Chemical name
5000 LBS	7440-47-3;	chromium; copper
100 LBS	7440-50-8	Nickel

SARA hazard categories (EPCRA 311/312): Acute, Chronic

SARA 313:

CAS Number	Chemical name
7440-02-0	Nickel
7440-47-3	chromium
7440-50-8	copper

### State regulations

State PTK

CAS Number	Chemical name
110-66-9	1,3,5-trioxane
7440-02-0	Nickel
7440-50-8	copper

State PTK  
MA, PA  
MA, NJ, PA  
MA, NJ, PA

CA Prop. 65:  
THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER

## 15. Other information

HMS III rating  
Health: 29      Flammability: 1      Physical hazard: 0

HMS uses a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates high hazard.

Local contact information  
prod\_req@basf.com

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