

# SAFETY DATA SHEET

Version: 1.5

Date:  
05/19/2011



---

## 1. PRODUCT AND COMPANY IDENTIFICATION

---

### Hyperform® HPN-68L

**Product Information:** Hyperform® HPN-68L

**Company Identification:**

Milliken Chemical  
P.O. Box 1926  
Spartanburg, SC, 29303 USA  
1-864-472-9041  
msds@milliken.com

The Milliken logo, which is the word "Milliken" written in a cursive, handwritten-style font with a trademark symbol.

**Emergency telephone number:**

**Chemtrec:**

1-800-424-9300 (Chemtrec - US)  
1-703-527-3887 (International)

---

## 2. HAZARDS IDENTIFICATION

---

**Emergency Overview**

High concentrations of dust may form explosive mixture with air.

**HFRP Rating**

Health	1
Flammability	1
Reactivity	0
Personal protection	E

**Eye**

May irritate eyes.

**Inhalation**

Dust in high concentrations may irritate the respiratory system.

**Skin**

Prolonged skin contact may cause temporary irritation.

**Ingestion**

No information about adverse effects due to exposure.

The product has been classified according to the legislation in force.

---

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

---

# SAFETY DATA SHEET

Version: 1.5

Date:  
05/19/2011



Product name	CAS Number	Amount
Disodium cis-endo-bicyclo (2.2.1) heptane-2-3-dicarboxylate	351870-33-2	80.0 %
13-Docosamide, (13Z)-	112-84-5	< 10.0 %
Silica	7631-86-9	< 10.0 %
Water	7732-18-5	< 1.0 %

---

## 4. FIRST AID MEASURES

---

<b>Eye</b>	Flush thoroughly with water. If irritation occurs, get medical assistance.
<b>Inhalation</b>	Move the exposed person to fresh air at once. Dust irritates the respiratory system, and may cause coughing and difficulties in breathing. Get medical attention if symptoms occur.
<b>Skin</b>	Wash skin thoroughly with soap and water. If skin irritation or an allergic skin reaction develops, get medical attention.
<b>Ingestion</b>	Get medical attention if symptoms occur.

---

## 5. FIRE-FIGHTING MEASURES

---

<b>Fire Fighting Media</b>	Water spray, foam, dry powder or carbon dioxide.
<b>Unusual Fire &amp; Explosion Hazards</b>	High concentrations of dust may form explosive mixture with air.
<b>Remarks</b>	The dust explosion class for this product is St1

---

## 6. ACCIDENTAL RELEASE MEASURES

---

<b>Safety Advice</b>	Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area.
<b>Spill Cleanup Methods</b>	Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

# SAFETY DATA SHEET

Version: 1.5

Date:  
05/19/2011



---

## 7. HANDLING AND STORAGE

---

**Handling** Avoid contact with eyes and prolonged or repeated contact with skin. Avoid generation and spreading of dust. Use only in well-ventilated areas. Wear approved safety goggles.

---

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

---

**Appropriate engineering controls** No specific recommendation made, but protection against nuisance dust must be used when the general level exceeds 10 mg/m<sup>3</sup>.

**Eye protection** Chemical goggles are recommended.

**Skin and Body Protection** In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.

### Exposure Limit values

Component	Regulatory Basis	Type	Occupational exposure limits
Silica	NIOSH/GUIDE	REL	6 mg/m <sup>3</sup>
	Z1A	TWA	6 mg/m <sup>3</sup>
	Z3	TWA	0.8 mg/m <sup>3</sup>
	AZ MAC	TWA	1 mg/m <sup>3</sup>
	AZ MAC	TWA	4 mg/m <sup>3</sup>
	AZ MAC	TWA	2 mg/m <sup>3</sup>
	AZ MAC	TWA	2 mg/m <sup>3</sup>
	AZ MAC	TWA	1 mg/m <sup>3</sup>
	AZ MAC	TWA	1 mg/m <sup>3</sup>
KZ GN MAC	CEIL MAC	3 mg/m <sup>3</sup>	

# SAFETY DATA SHEET

Version: 1.5

Date:  
05/19/2011



KZ GN MAC	8 HR MAC	1 mg/m3
TN OEL	TWA	6 mg/m3

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

---

Appearance	powder
Color	White
Odor	Odorless
Bulk Density	Result: 278 kg/m3
Solubility (in Water)	Slightly Soluble

---

## 10. STABILITY AND REACTIVITY

---

Stability	Material is stable under normal conditions.
Materials to Avoid	Avoid contact with acids and oxidizing substances.
Hazardous decomposition products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

---

## 11. TOXICOLOGICAL INFORMATION

---

Acute Toxicity : Oral	Type: LD50 Species: Rat Result: > 2,500 mg/kg
Skin irritation.	Classification: Non-Irritating Species: Rabbit
Eye Irritation	

# SAFETY DATA SHEET

Version: 1.5

Date:  
05/19/2011



Species: Rabbit  
Slightly irritating.

## Skin sensitizer

Species: Guinea Pig  
Not a skin sensitizer.

## Assessment Carcinogenicity Component: Silica

Not classifiable as a human carcinogen

---

## 12. ECOLOGICAL INFORMATION

---

No data available.

---

## 13. DISPOSAL CONSIDERATIONS

---

### Disposal Recommendations

Dispose of waste and residues in accordance with local authority requirements.

---

## 14. TRANSPORT INFORMATION

---

### Department of Transportation (DOT)

Not regulated.

### Sea (IMDG)

Not regulated.

### Air (ICAO/IATA)

Not regulated.

---

## 15. REGULATORY INFORMATION

---

### Regulatory Lists Searched

US EPCRA 302

### Component

None.

US CERCLA 304

None.

US SARA 313

None present or none present in regulated quantities.

# SAFETY DATA SHEET

Version: 1.5

Date:  
05/19/2011



US MA RTK	Amorphous Silicon Dioxide(Chemically Prepared) Silica 7631-86-9
US NJ RTK	Amorphous Silicon Dioxide(Chemically Prepared) Silica 7631-86-9
US PA RTK	Amorphous Silicon Dioxide(Chemically Prepared) Silica 7631-86-9

Additional information is available by request.

---

## 16. OTHER INFORMATION

---

//////  
The information contained in this Material Safety Data Sheet is furnished without warranty, expressed or implied,  
except that it is accurate to the best knowledge of Milliken Chemical.  
//////