

# Material Safety Data Sheet



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Revision Number 2

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** HYDROSIZE HP-1632

**Product Code** HP1632

**Manufacturer** Michelman, Inc.  
9080 Shell Road  
Cincinnati, Ohio 45236  
(513)793-7766

**In case of emergency call CHEMTREC 1-800-424-9300**  
Emergency telephone

**1-800-424-9300; 1-703-527-3887(Int.)**  
1-800-215-1618

## 2. HAZARD IDENTIFICATION

### Emergency Overview

No information available.

**Color** No information available.

**Physical State** Liquid

**Odor** No information available

**HMIS** Health Hazard 2 Flammability 0 Stability 0 PPE B

**OSHA Regulatory Status** Information listed in Sections 3, 11, and 15 is consistent with the OSHA Hazard Communication Standard (29 CFR 1910.1200) and has also been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR)

### Potential Health Effects

**Principle Routes of Exposure**

Inhalation.

**Target Organ Effects**

No information available.

### Acute Toxicity

**Eyes**

May cause slight irritation.

**Skin**

May cause irritation.

**Inhalation**

May cause irritation of respiratory tract.

**Ingestion**

No known effect based on information supplied

### Chronic Effects

No known effect based on information supplied

### Aggravated Medical Conditions

None known

### Environmental Hazard

See Section 12 for additional Ecological Information

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Michelman Formulas are confidential and proprietary. All formula components that are hazardous under the OSHA Hazard Communication Standard are listed below.

Chemical Name	CAS-No	Weight %
FURAN, TETRAHYDRO-	109-99-9	0.1 - 1

### 4. FIRST AID MEASURES

<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician
<b>Skin Contact</b>	Wash skin with soap and water
<b>Inhalation</b>	Artificial respiration and/or oxygen may be necessary
<b>Ingestion</b>	Get medical attention immediately if symptoms occur
<b>Notes to Physician</b>	Treat symptomatically

### 5. FIRE-FIGHTING MEASURES

<b>Flammable Properties</b>	Not flammable
<b>Flash Point Method</b>	Not flammable. Tag closed cup
<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment
<b>Extinguishing media which shall not be used for safety reasons</b>	Do not use straight stream of water for fire fighting as the burning material may be spread
<b>Explosive Properties</b>	
<b>Mechanical sensitivity (shock)</b>	Not applicable
<b>Mechanical sensitivity (Friction)</b>	Not applicable

#### Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Use personal protective equipment
<b>Environmental Precautions</b>	Do not flush into surface water or sanitary sewer system
<b>Methods for Cleaning Up</b>	Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal

### 7. HANDLING AND STORAGE

<b>Handling</b>	Handle in accordance with good industrial hygiene and safety practice
<b>Storage</b>	Keep containers tightly closed in a dry, cool and well-ventilated place

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	ACGIH OEL (STEL)	OSHA PEL	OSHA STEL	NIOSH IDLH
FURAN, TETRAHYDRO-	Listed TWA: 50 ppm Skin	100 ppm	TWA: 200 ppm TWA: 590 mg/m <sup>3</sup> (vacated) TWA: 200 ppm (vacated) TWA: 590 mg/m <sup>3</sup> (vacated) STEL: 735 mg/m <sup>3</sup> (vacated) STEL: 250 ppm		IDLH: 2000 ppm 10% LEL TWA: 200 ppm TWA: 590 mg/m <sup>3</sup> STEL: 735 mg/m <sup>3</sup> STEL: 250 ppm

**Engineering Measures** Ensure that eyewash stations and safety showers are close to the workstation location

**Personal Protective Equipment**

**Eye/Face Protection**

Safety glasses with side-shields

**Skin and Body Protection**

Protective gloves

**Respiratory Protection**

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

**Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical State</b>	Liquid	<b>Color</b>	No information available.
<b>Odor</b>	Slight	<b>pH</b>	Not determined
<b>Autoignition Temperature</b>	No information available	<b>Boiling Point/boiling range</b>	No information available
<b>Melting Point/Range</b>	No information available	<b>Freezing point</b>	0 °C
<b>Explosion Limits</b>	No information available	<b>Specific Gravity</b>	1.000
<b>Density</b>	8.32	<b>VOC Content(%)</b>	Not applicable
<b>Actual VOC (lb/gal)</b>	0.0307		

**Ammonia Percent by Weight** None

**10. STABILITY AND REACTIVITY**

<b>Stability</b>	Stable under normal conditions
<b>Conditions to Avoid</b>	None known
<b>Incompatible Products</b>	None known based on information supplied
<b>Hazardous Decomposition Products</b>	Carbon oxides

**11. TOXICOLOGICAL INFORMATION**

**Acute Toxicity**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
FURAN, TETRAHYDRO-	1650 mg/kg ( Rat )		180 mg/L ( Rat ) 1 h 53.9 mg/L ( Rat ) 4 h

**Chronic Toxicity** None known

**Carcinogenicity**

Chemical Name	ACGIH	IARC	NTP	OSHA
FURAN, TETRAHYDRO-	A3			

**Mutagenic Effects** None known

**Reproductive Toxicity** None known

**Target Organ Effects** None known.

**Endocrine System**

Chemical Name	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disruptors - Evaluated Substances
FURAN, TETRAHYDRO-	Group III Chemical	

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to microorganisms	Daphnia Magna (Water Flea)
2-(Dimethylamino) ethanol	h EC50 72.35 mg/L			h EC50 48.98.77 mg/L
FURAN, TETRAHYDRO-				h EC50 24 >10000 mg/L

**Fate and behavior in the environment**

Chemical Name	Log Pow
2-(Dimethylamino) ethanol	-0.55
FURAN, TETRAHYDRO-	0.45

**13. DISPOSAL CONSIDERATIONS**

**Waste Disposal Method**

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements

**Contaminated Packaging**

Dispose of in accordance with local regulations

**14. TRANSPORT INFORMATION**

**DOT**

Not regulated

**IATA**

Not regulated

**IMDG/IMO**

Not regulated

## 15. REGULATORY INFORMATION

### International Inventories

TSCA (USA)	Complies
DSL (Canada)	Does not Comply
EINECS (Europe)	Does not Comply
ENCS (Japan)	Complies
IECSC (China)	Does not Comply
KECL (Korea)	Does not Comply
PICCS (Philippines)	Does not Comply
AICS (Australia)	Does not comply
ERMA (New Zealand)	Does not comply

### Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### **SARA 311/312 Hazard Categories**

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

#### **Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### **Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990

#### **CERCLA**

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
FURAN, TETRAHYDRO-	1000 lb	

### State Regulations

#### **California Prop. 65**

This product does not contain any Proposition 65 chemicals.

#### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey
2-(Dimethylamino) ethanol	X
FURAN, TETRAHYDRO-	X

## 16. OTHER INFORMATION

Prepared By	Michelman, Inc.
Revision Note	No information available

**Disclaimer**

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Material Safety Data Sheet**