

# SAFETY DATA SHEET

M23011 - ANSI - EN



**Occidental Chemical Corporation**

A subsidiary of Occidental Petroleum Corporation



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## GYPSUM

SDS No.: M23011

SDS Revision Date: 02-Sep-2015

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### SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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<b>Company Identification:</b>	Occidental Chemical Corporation 5005 LBJ Freeway P.O. Box 809050 Dallas, TX 75380-9050 1-800-752-5151
<b>24 Hour Emergency Telephone Number:</b>	1-800-733-3665 or 1-972-404-3228 (USA); CHEMTREC (within USA and Canada): 1-800-424-9300; CHEMTREC (outside USA and Canada): +1 703-527-3887; CHEMTREC Contract No: CCN16186
<b>To Request an SDS:</b>	MSDS@oxy.com or 1-972-404-3245
<b>Customer Service:</b>	1-800-752-5151 or 1-972-404-3700
<b>Product Identifier:</b>	<b>GYPSUM</b>
<b>Synonyms:</b>	Calcium Sulfate, Calcium sulfate dihydrate
<b>Product Use:</b>	Fertilizer *, Process chemical
<b>Uses Advised Against:</b>	None identified.
<b>Note:</b>	*Check with national and local regulatory agencies to determine status of use in a fertilizer application. *In states where licensed or registered. Check with State Department of Agriculture.

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## SECTION 2. HAZARDS IDENTIFICATION

**OSHA REGULATORY STATUS:** This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

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### EMERGENCY OVERVIEW:

**Color:** White to gray  
**Physical State:** Solid  
**Appearance:** Solid cake  
**Odor:** Odorless

**Signal Word:** NONE

**MAJOR HEALTH HAZARDS:** MAY BE IRRITATING TO RESPIRATORY TRACT, SKIN AND EYES.

**PRECAUTIONARY STATEMENTS:** Always use good hygiene measures. Avoid contact with skin and eyes. Avoid breathing dust. Wash thoroughly after handling.

**ADDITIONAL HAZARD INFORMATION:** Even though this material is not classified as hazardous according to US OSHA's 2012 Hazard Communication Standard, good hygiene and safety practices should be followed. Good hygiene practices include but are not limited to: wearing suitable gloves and/or eye protection; washing hands and affected skin immediately after handling, before breaks, and at the end of the workday; regularly cleaning work area and clothing; etc.

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### GHS CLASSIFICATION:

**Note:** There is not a GHS classification associated with this non-hazardous material.

GHS: CARCINOGENICITY:	This product is not classified as a carcinogen by NTP, IARC or OSHA.
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**Unknown Acute Dermal Toxicity:**

100% of this product consists of ingredient(s) of unknown acute dermal toxicity.

**GHS SYMBOL:** None

**GHS SIGNAL WORD:** NONE

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**GHS HAZARD STATEMENTS:****GHS - Physical Hazard Statement(s)**

Not classified as a hazardous substance or mixture

**GHS - Health Hazard Statement(s)**

Not classified as a hazardous substance or mixture

**GHS - Precautionary Statement(s) - Prevention**

Not classified as a hazardous substance or mixture

There are no Precautionary Statement(s)-Prevention phrases assigned

**GHS - Precautionary Statement(s) - Response**

Not classified as a hazardous substance or mixture

There are no Precautionary Statement(s)-Response phrases assigned

**GHS - Precautionary Statement(s) - Storage**

Not classified as a hazardous substance or mixture

There are no Precautionary Statement(s) - Storage phrases assigned

**GHS - Precautionary Statement(s) - Disposal**

Not classified as a hazardous substance or mixture. There are no Precautionary Statement(s) - Disposal phrases assigned.

**Hazards Not Otherwise Classified (HNOC)**

None identified

See Section 11: TOXICOLOGICAL INFORMATION

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: Calcium Sulfate, Calcium sulfate dihydrate

Component	Percent [%]	CAS Number
Gypsum (CaSO <sub>4</sub> .2H <sub>2</sub> O) (Total)	80-90	13397-24-5
Water	10-20	7732-18-5
Sodium Chloride	0.5-5	7647-14-5

## SECTION 4. FIRST AID MEASURES

**INHALATION:** If inhalation of this material occurs and you feel unwell, move to fresh air.**SKIN CONTACT:** Brush off excess material. Irrigate with water. If skin irritation occurs, get medical advice/attention.

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**EYE CONTACT:** If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If mechanical irritation occurs, get medical attention.

**INGESTION:** No effect expected. If large amounts are ingested, get medical advice/attention.

**Most Important Symptoms/Effects (Acute and Delayed) :**

**Acute Symptoms/Effects:** Listed below.

**Inhalation (Breathing):** Respiratory Irritation: Upper airway irritation, may cause cough, redness of mouth and upper airways.

**Skin:** Skin Irritation. Exposure to powder or fine particulates of this material may cause slight skin redness, irritation.

**Eye:** Eye Irritation: Eye exposure may cause irritation, and redness to the eye lids, conjunctiva.

**Ingestion (Swallowing):** No known effects.

**Delayed Symptoms/Effects:**

- No delayed / chronic effects have been identified

**Interaction with Other Chemicals Which Enhance Toxicity:** None known.

**Medical Conditions Aggravated by Exposure:** May aggravate preexisting conditions such as: eye disorders that decrease tear production or have reduced integrity of the eye; skin disorders that compromise the integrity of the skin; and respiratory conditions including asthma and other breathing disorders.

**Protection of First-Aiders:** Avoid contact with skin and eyes. Do not breathe dust. Use personal protective equipment. Refer to Section 8 for specific personal protective equipment recommendations. At minimum, treating personnel should utilize PPE sufficient for prevention of bloodborne pathogen transmission.

**Notes to Physician:** Sulfate is a normal constituent of the blood, and a normal metabolite of sulfur containing amino acids. Excess sulfate is excreted in the urine. Sodium sulfate has been used as a cathartic. It is recognized as non-toxic and any treatment is based upon symptomatic and supportive care.

## SECTION 5. FIRE-FIGHTING MEASURES

**Fire Hazard:** Negligible fire hazard.

**Extinguishing Media:** Use extinguishing agents appropriate for surrounding fire.

**Fire Fighting:** Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas. Wear NIOSH approved positive-pressure self-contained breathing apparatus operated in pressure demand mode.

**Hazardous Combustion Products:** Oxides of carbon, Oxides of sulfur

**Sensitivity to Mechanical Impact:** Not sensitive.

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**Sensitivity to Static Discharge:** Not sensitive.

**Lower Flammability Level (air):** Not flammable

**Upper Flammability Level (air):** Not flammable

**Flash point:** Not flammable

**Auto-ignition Temperature:** Not applicable

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

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### **Personal Precautions:**

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes. Avoid breathing dust. Avoid generating dust. Wash thoroughly after handling. When handling this material, wear appropriate personal protective equipment recommended in Section 8, Exposure Controls / Personal Protection, of the SDS.

### **Methods and Materials for Containment and Cleaning Up:**

Shovel dry material into suitable container. Flush spill area with water, if appropriate.

### **Environmental Precautions:**

Keep out of water supplies and sewers. Releases should be reported, if required, to appropriate agencies.

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## SECTION 7. HANDLING AND STORAGE

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### **Precautions for Safe Handling:**

Observe good personal hygiene practices and recommended procedures. Avoid contact with skin and eyes. Wash thoroughly after handling. Avoid breathing dust. Use methods to minimize dust. Wear personal protective equipment as described in Exposure Controls/Personal Protection (Section 8) of the SDS.

### **Safe Storage Conditions:**

Store and handle in accordance with all current regulations and standards. Keep container tightly closed and properly labeled. Material is very hygroscopic. Store in a cool, dry area. Keep separated from incompatible substances (see below or Section 10 of the Safety Data Sheet).

### **Incompatibilities/ Materials to Avoid:**

Aluminum

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## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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**Regulatory Exposure Limit(s):** Listed below for the product components that have regulatory occupational exposure limits (OEL's) established.

Component	OSHA Final PEL TWA	OSHA Final PEL STEL	OSHA Final PEL Ceiling
Particles Not Otherwise Regulated (PNOR) 00-00-001	15 mg/m <sup>3</sup> (Total) 5 mg/m <sup>3</sup> (Respirable)	-----	-----
Gypsum (CaSO <sub>4</sub> .2H <sub>2</sub> O) (Total) 13397-24-5	15 mg/m <sup>3</sup> 5 mg/m <sup>3</sup>	-----	-----

OEL: Occupational Exposure Limit; OSHA: United States Occupational Safety and Health Administration; PEL: Permissible Exposure Limit; TWA: Time Weighted Average; STEL: Short Term Exposure Limit

**NON-REGULATORY EXPOSURE LIMIT(S):** Listed below for the product components that have advisory (non-regulatory) occupational exposure limits (OEL's) established.

Component	CAS Number	ACGIH TWA	ACGIH STEL	ACGIH Ceiling	OSHA TWA (Vacated)	OSHA STEL (Vacated)	OSHA Ceiling (Vacated)
Particulates Not Otherwise Specified (PNOS)	Not Assigned	10 mg/m <sup>3</sup> (Inhalable) 3 mg/m <sup>3</sup> (Respirable)	-----	-----	-----	-----	-----
Gypsum (CaSO <sub>4</sub> .2H <sub>2</sub> O) (Total)	13397-24-5	-----	-----	-----	15 mg/m <sup>3</sup> 5 mg/m <sup>3</sup>	-----	-----

- The Non-Regulatory United States Occupational Safety and Health Administration (OSHA) limits, if shown, are the Vacated 1989 PEL's (vacated by 58 FR 35338, June 30, 1993).

- The American Conference of Governmental Industrial Hygienists (ACGIH) is a voluntary organization of professional industrial hygiene personnel in government or educational institutions in the United States. The ACGIH develops and publishes recommended occupational exposure limits each year called Threshold Limit Values (TLVs) for hundreds of chemicals, physical agents, and biological exposure indices.

**Additional Advice:** Even though this material is not classified as hazardous according to US OSHA's 2012 Hazard Communication Standard, good hygiene and safety practices should be followed.

**ENGINEERING CONTROLS:** General or local exhaust ventilation and other forms of engineering controls are the preferred means for controlling exposures. Ensure compliance with applicable exposure limits.

### PERSONAL PROTECTIVE EQUIPMENT:

**Eye Protection:** Use good hygiene practices when handling this material. Wear safety glasses with side-shields.

**Skin and Body Protection:** Use good hygiene practices when handling this material. As a good hygiene practice, wear protective clothing to minimize skin contact such as standard industrial work clothes, coveralls, safety footwear. Contaminated clothing should be removed and laundered before reuse.

**Hand Protection:** As a good hygiene practice, wear appropriate chemical resistant gloves. Consult a glove supplier for assistance in selecting an appropriate chemical resistant glove.

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**Protective Material Types:** Butyl rubber, Natural rubber, Neoprene, Nitrile

**Respiratory Protection:** No personal respiratory protective equipment normally required. A NIOSH approved respirator with N95 (dust, fume, mist) cartridges may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits, or when symptoms have been observed that are indicative of overexposure. In dusty or misty atmospheres use an approved particulate respirator. The added protection of a full face-piece respirator is required when visible dusty conditions are encountered and eye irritation may occur. A respiratory protection program that meets 29 CFR 1910.134 must be followed whenever workplace conditions warrant use of a respirator.

**HYGIENE MEASURES:** Handle in accordance with good industrial hygiene and safety practices. Good hygiene practices include but are not limited to: wearing suitable gloves and/or eye protection; washing hands and affected skin immediately after handling, before breaks, and at the end of the workday; regularly cleaning work area and clothing; etc.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b>	Solid
<b>Appearance:</b>	Solid cake
<b>Color:</b>	White to gray
<b>Odor:</b>	Odorless
<b>Decomposition Temperature:</b>	No data available
<b>Boiling Point/Range:</b>	Not applicable
<b>Freezing Point/Range:</b>	Not applicable.
<b>Melting Point/Range:</b>	1450 °C (2642 °F)
<b>Vapor Pressure:</b>	Not applicable
<b>Vapor Density (air=1):</b>	Not applicable
<b>Relative Density/Specific Gravity (water=1):</b>	2.3
<b>Density:</b>	No data available
<b>Bulk Density:</b>	54 - 77 lb./ft <sup>3</sup>
<b>Water Solubility:</b>	No data available
<b>pH:</b>	No data available
<b>Volatility:</b>	No data available
<b>Evaporation Rate (ether=1):</b>	Not applicable
<b>Partition Coefficient (n-octanol/water):</b>	No data available
<b>Flash point:</b>	Not flammable
<b>Flammability (solid, gas):</b>	Not flammable
<b>Lower Flammability Level (air):</b>	Not flammable
<b>Upper Flammability Level (air):</b>	Not flammable
<b>Auto-ignition Temperature:</b>	Not applicable
<b>Viscosity:</b>	Not applicable
<b>Hygroscopic:</b>	Yes

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## SECTION 10. STABILITY AND REACTIVITY

**Reactivity:** Not reactive under normal temperatures and pressures.

**Chemical Stability:** Stable at normal temperatures and pressures.

**Possibility of Hazardous Reactions:**

None known.

**Conditions to Avoid:**

(e.g., static discharge, shock, or vibration) -. None known.

**Incompatibilities/ Materials to Avoid:**

Aluminum.

**Hazardous Decomposition Products:** Oxides of sulfur, Oxides of carbon (Carbon monoxide, Carbon dioxide)

**Hazardous Polymerization:** Will not occur.

## SECTION 11. TOXICOLOGICAL INFORMATION

**IRRITATION:** This material was minimally irritating to unwashed eyes and practically non-irritating to washed eyes (rabbits)

### TOXICITY DATA:

**PRODUCT TOXICITY DATA:** GYPSUM (ALL GRADES)

### **COMPONENT TOXICITY DATA:**

**Note:** The component toxicity data is populated by the LOLI database and may differ from the product toxicity data given.

Component	LD50 Oral:	LD50 Dermal:	LC50 Inhalation:
Gypsum (CaSO <sub>4</sub> ·2H <sub>2</sub> O) (Total) 13397-24-5	3000 mg/kg (Rat)	-----	-----
Water 7732-18-5	-----	-----	-----
Sodium Chloride 7647-14-5	3 g/kg (Rat)	10 g/kg (Rabbit)	42 g/m <sup>3</sup> (1 hr-Rat)

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### **POTENTIAL HEALTH EFFECTS:**

**Eye contact:** May cause mild eye irritation.



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<b>Skin contact:</b>	May cause slight skin irritation.
<b>Inhalation:</b>	May cause slight upper respiratory irritation.
<b>Ingestion:</b>	No known effects.
<b>Chronic Effects:</b>	Repeated or prolonged contact may result in dermatitis.

### SIGNS AND SYMPTOMS OF EXPOSURE:

Irritation is generally caused by mechanical action.

**Inhalation (Breathing):** Respiratory Irritation: Upper airway irritation, may cause cough, redness of mouth and upper airways.

**Skin:** Skin Irritation. Exposure to powder or fine particulates of this material may cause slight skin redness, irritation.

**Eye:** Eye Irritation: Eye exposure may cause irritation, and redness to the eye lids, conjunctiva.

**Ingestion (Swallowing):** No known effects.

**Interaction with Other Chemicals Which Enhance Toxicity:** None known.

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### GHS HEALTH HAZARDS:

This material is not classified as hazardous according to the OSHA Hazard Communication Standard (29 CFR 1910.1200). There is not a GHS classification associated with this non-hazardous material.

**Skin Absorbent / Dermal Route?** No.

### GHS: CARCINOGENICITY:

This product is not classified as a carcinogen by NTP, IARC or OSHA.

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## SECTION 12. ECOLOGICAL INFORMATION

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### ECOTOXICITY DATA:

#### Aquatic Toxicity:

This material is believed to be practically non-toxic to aquatic life

### FATE AND TRANSPORT:

**BIODEGRADATION:** This material is inorganic and not subject to biodegradation

**PERSISTENCE:** This material is expected to persist in the environment

**BIOACCUMULATIVE POTENTIAL:** This material is not expected to bioaccumulate.

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### SECTION 13. DISPOSAL CONSIDERATIONS

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**Waste from material:**

Reuse or recycle if possible. May be subject to disposal regulations. Dispose in accordance with all applicable regulations.

**Container Management:**

Dispose of container in accordance with applicable local, regional, national, and/or international regulations. Container rinsate must be disposed of in compliance with applicable regulations.

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### SECTION 14. TRANSPORT INFORMATION

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#### LAND TRANSPORT

**U.S. DOT 49 CFR 172.101:**

**Status:** Not regulated.

**CANADIAN TRANSPORTATION OF DANGEROUS GOODS:**

**Status:** Not regulated.

#### MARITIME TRANSPORT (IMO / IMDG) :

**Status - IMO / IMDG:** Not Regulated

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### SECTION 15. REGULATORY INFORMATION

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#### U.S. REGULATIONS

**OSHA REGULATORY STATUS:**

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4):**

Not regulated.

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**SARA EHS Chemical (40 CFR 355.30)**

Not regulated

**EPCRA SECTIONS 311/312 HAZARD CATEGORIES (40 CFR 370.10):**

None

**EPCRA SECTION 313 (40 CFR 372.65):**

Not regulated.

**OSHA PROCESS SAFETY (PSM) (29 CFR 1910.119):**

Not regulated

**NATIONAL INVENTORY STATUS****U.S. INVENTORY STATUS: Toxic Substance Control Act (TSCA):** All components are listed or exempt.**TSCA 12(b):** This product is not subject to export notification.**Canadian Chemical Inventory:** All components of this product are listed on either the DSL or the NDSL.**STATE REGULATIONS**

Component	California Proposition 65 Cancer WARNING:	California Proposition 65 CRT List - Male reproductive toxin:	California Proposition 65 CRT List - Female reproductive toxin:	Massachusetts Right to Know Hazardous Substance List	New Jersey Right to Know Hazardous Substance List	New Jersey Special Health Hazards Substance List
Gypsum (CaSO <sub>4</sub> .2H <sub>2</sub> O) (Total) 13397-24-5	Not Listed	Not Listed	Not Listed	Listed	4003	Not Listed

Component	New Jersey - Environmental Hazardous Substance List	Pennsylvania Right to Know Hazardous Substance List	Pennsylvania Right to Know Special Hazardous Substances	Pennsylvania Right to Know Environmental Hazard List	Rhode Island Right to Know Hazardous Substance List
Gypsum (CaSO <sub>4</sub> .2H <sub>2</sub> O) (Total) 13397-24-5	Not Listed	Listed	Not Listed	Not Listed	Not Listed

**CANADIAN REGULATIONS**

• This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations

**WHMIS - Classifications of Substances:**

• Not a controlled product under Canada's Workplace Hazardous Information System

## SECTION 16. OTHER INFORMATION

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**Prepared by:** OxyChem Corporate HESS - Product Stewardship

**Rev. Date:** 02-Sep-2015

**HMIS: (SCALE 0-4)** (Rated using National Paint & Coatings Association HMIS: Rating Instructions, 2nd Edition)

**Health Rating:** 0

**Flammability Rating:** 0

**Reactivity Rating:** 0

**NFPA 704 - Hazard Identification Ratings (SCALE 0-4)**

**Health Rating:** 1

**Flammability:** 0

**Reactivity Rating:** 0

**Reason for Revision:**

- Three year review
- Changed the SDS format to meet the GHS requirements of the revised 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)
- Updated the (M)SDS header
- Updated 24 Hour Emergency Telephone Number: SEE SECTION 1
- Product Identifier has been added or updated: SEE SECTION 1
- Updated Uses Advised Against information: SEE SECTION 1
- Added OSHA Status: SEE SECTION 2
- Added GHS Information: SEE SECTION 2
- Added synonym(s): SEE SECTION 3
- Updated First Aid Measures: SEE SECTION 4
- Revised Accidental Release Measures: SEE SECTION 6
- Updated Handling and Storage Information: SEE SECTION 7
- Revised Exposure Controls/Personal Protection information: SEE SECTION 8
- Updated Physical and Chemical Properties. SEE SECTION 9
- Stability and Reactivity recommendations: SEE SECTION 10
- Toxicological Information has been revised: SEE SECTION 11
- Ecological Information has been modified: SEE SECTION 12
- Updated Disposal Considerations. SEE SECTION 13
- Regulatory Information Changes: SEE SECTION 15
- Revised Preparer Information: SEE SECTION 16
- Added SDS Revision Date: SEE SECTION 16
- Added/Updated Revision Log: SEE SECTION 16
- Added "End of Safety Data Sheet" phrase

**IMPORTANT:**

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OSHA Standard 29 CFR 1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, safety data sheets, training and access to written records. We request that you, and it is your legal duty to, make all information in this Safety Data Sheet available to your employees

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**End of Safety Data Sheet**