

# SAFETY DATA SHEET

M42557 - ANSI - EN



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## BRINE FILTER CAKE

SDS No.: M42557

SDS Revision Date: 12-Nov-2007

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### 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>BRINE FILTER CAKE</b>
<b>Product Use:</b>	Farmland enrichment
<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

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### 2. HAZARDS IDENTIFICATION

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**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:** Off-white to tan  
**Physical State:** Solid  
**Appearance:** Granular  
**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 breathing dust. Avoid contact with eyes, skin and clothing. 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:** This material is not classified as hazardous according to the OSHA Hazard Communication Standard (29 CFR 1910.1200).

GHS: CARCINOGENICITY:	Not classified as a carcinogen per GHS criteria. This product is not classified as a carcinogen by NTP, IARC, or OSHA.
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**GHS SYMBOL:** None

**GHS SIGNAL WORD:** **NONE**

**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

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**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 Known

See Section 11: TOXICOLOGICAL INFORMATION

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component	Percent [%]	CAS Number
Calcium Carbonate	30 - 45	1317-65-3
Water	20 - 40	7732-18-5
Potassium Chloride	5 - 15	7447-40-7
Calcium sulfate (inhaled fraction) [Sulfuric acid, calcium salt (1:1)] (containing no asbestos and < 1% crystalline silica)	10 - 15	7778-18-9
Silicon Dioxide - hydrated	1 - 10	7631-86-9
Magnesium hydroxide (Mg(OH) <sub>2</sub> )	1 - 7	1309-42-8
Potassium Sulfate	1 - 4	7778-80-5

**4. FIRST AID MEASURES****INHALATION:** No effects expected. If inhalation of this material occurs and you feel unwell, move to fresh air.**SKIN CONTACT:** Irrigate with water. If irritation occurs, protect skin from further contact.**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. Provide fluids if thirsty. If large amounts are ingested, get medical advice/attention.

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

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

**Inhalation (Breathing):** Inhaling dust may cause mild respiratory irritation.

**Skin:** Prolonged exposure to skin may cause mild irritation, redness, and dry skin.

**Eye:** Exposure to eye may cause slight irritation and redness to conjunctiva.

**Ingestion (Swallowing):** Ingesting this material may cause increased thirst. Ingesting massive amounts can cause electrolyte imbalance.

**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.

**Protection of First-Aiders:** Avoid prolonged contact with skin and eyes. Avoid breathing dust. If prolonged contact is expected, 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:** This material is recognized as non-toxic. Correct any fluid/electrolyte imbalance for large ingestions.

## 5. FIRE-FIGHTING MEASURES

**Fire Hazard:** Negligible fire hazard.

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

**Fire Fighting:** Wear complete fire service protective equipment, including full-face MSHA/NIOSH approved self-contained breathing apparatus. Use water to cool fire-exposed container/structure/protect personnel.

Component	Immediately Dangerous to Life/ Health (IDLH)
Silicon Dioxide - hydrated 7631-86-9	3000 mg/m <sup>3</sup> IDLH

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

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

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

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

**Flash point:** Not flammable

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**Auto-ignition Temperature:** Not applicable**6. ACCIDENTAL RELEASE MEASURES****Personal Precautions:**

Handle in accordance with good industrial hygiene and safety practice. As a precaution, avoid contact with skin and eyes. Avoid breathing dust. Wear appropriate personal protective equipment recommended in Section 8, Exposure Controls / Personal Protection, of the SDS.

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

Stop leak if possible without personal risk. Shovel dry material into suitable container. Collect spilled material in appropriate container for disposal. Flush spill area with water, if appropriate.

**Environmental Precautions:**

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

**7. HANDLING AND STORAGE****Precautions for Safe Handling:**

Handle in accordance with good industrial hygiene and safety practice. Avoid breathing dust. Avoid contact with skin and eyes. Wash thoroughly after handling. 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. Protect from physical damage. Keep in properly labeled containers. Maintain good housekeeping.

**Incompatibilities/ Materials to Avoid:**

Acids, Ammonium salts, Magnesium salts, Aluminum, Aluminum Alloys

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

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

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)	-----	-----

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Calcium Carbonate 1317-65-3	15 mg/m <sup>3</sup> 5 mg/m <sup>3</sup>	-----	-----
Calcium sulfate (inhaled fraction) [Sulfuric acid, calcium salt (1:1)] (containing no asbestos and < 1% crystalline silica) 7778-18-9	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)	-----	-----	-----	-----	-----
Calcium Carbonate	1317-65-3	-----	-----	-----	15 mg/m <sup>3</sup> 5 mg/m <sup>3</sup>	-----	-----
Calcium sulfate (inhaled fraction) [Sulfuric acid, calcium salt (1:1)] (containing no asbestos and < 1% crystalline silica)	7778-18-9	10 mg/m <sup>3</sup> particulate matter containing no asbestos and < 1% crystalline silica	-----	-----	15 mg/m <sup>3</sup> 5 mg/m <sup>3</sup>	-----	-----
Silicon Dioxide - hydrated	7631-86-9	-----	-----	-----	6 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.

**ENGINEERING CONTROLS:** Under normal conditions of use, no special ventilation equipment is needed. 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:** As a good hygiene practice, wear protective clothing to minimize skin contact such as standard industrial work clothes, coveralls, safety footwear.

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**Hand Protection:** As a good hygiene practice, wear appropriate chemical resistant gloves.

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

**Respiratory Protection:** Not required under normal use conditions. A NIOSH approved respirator with N95 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. 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.

Component	Immediately Dangerous to Life/ Health (IDLH)
Silicon Dioxide - hydrated 7631-86-9	3000 mg/m <sup>3</sup> IDLH

**HYGIENE MEASURES:** 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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b>	Solid
<b>Appearance:</b>	Granular
<b>Color:</b>	Off-white to tan
<b>Odor:</b>	Odorless
<b>Odor Threshold [ppm]:</b>	No data available.
<b>Boiling Point/Range:</b>	No data available
<b>Freezing Point/Range:</b>	No data available.
<b>Melting Point/Range:</b>	No data available
<b>Vapor Pressure:</b>	No data available
<b>Vapor Density (air=1):</b>	No data available
<b>Relative Density/Specific Gravity (water=1):</b>	1.74
<b>Bulk Density:</b>	No data available
<b>Water Solubility:</b>	100%
<b>pH:</b>	No data available
<b>Volatility:</b>	No data available
<b>Evaporation Rate (ether=1):</b>	No data available
<b>Partition Coefficient (n-octanol/water):</b>	Not applicable
<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

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**10. STABILITY AND REACTIVITY**

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**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:**

Acids. Ammonium salts. Magnesium salts. Aluminum. Aluminum Alloys.

**Hazardous Decomposition Products:** None known

**Hazardous Polymerization:** Will not occur.

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**11. TOXICOLOGICAL INFORMATION**

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**TOXICITY DATA:**

**PRODUCT TOXICITY DATA:** BRINE FILTER CAKE

**COMPONENT TOXICITY DATA:**

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

<b>Component</b>	<b>LD50 Oral:</b>	<b>LD50 Dermal:</b>	<b>LC50 Inhalation:</b>
Water 7732-18-5	-----	-----	-----
Potassium Chloride 7447-40-7	2600 mg/kg (Rat)	-----	-----
Calcium sulfate (inhaled fraction) [Sulfuric acid, calcium salt (1:1)] (containing no asbestos and < 1% crystalline silica) 7778-18-9	3000 mg/kg (Rat)	-----	-----
Silicon Dioxide - hydrated 7631-86-9	5000 mg/kg (Rat)	2000 mg/kg (Rabbit)	2.2 mg/L (1 hr-Rat)
Potassium Sulfate 7778-80-5	6600 mg/kg (Rat)	-----	-----

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### POTENTIAL HEALTH EFFECTS:

- Eye contact:** May cause mild eye irritation.
- Skin contact:** Prolonged and repeated skin contact may cause redness and dry skin.
- Inhalation:** No specific disorder or effects are identified. Inhalation of vapor, mist, spray, aerosol may cause slight respiratory tract irritation.
- Ingestion:** Ingestion of this material may cause increased thirst. Massive ingestion may cause fluid/electrolyte imbalance.
- Chronic Effects:** None known.

### SIGNS AND SYMPTOMS OF EXPOSURE:

Irritation is generally caused by mechanical action.

- Inhalation (Breathing):** Inhaling dust may cause mild respiratory irritation.
- Skin:** Prolonged exposure to skin may cause mild irritation, redness, and dry skin.
- Eye:** Exposure to eye may cause slight irritation and redness to conjunctiva.
- Ingestion (Swallowing):** Ingesting this material may cause increased thirst. Ingesting massive amounts can cause electrolyte imbalance.

**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:

Not classified as a carcinogen per GHS criteria. This product is not classified as a carcinogen by NTP, IARC, or OSHA.

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## 12. ECOLOGICAL INFORMATION

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### ECOTOXICITY DATA:

#### Aquatic Toxicity:

This material is a concentrated salt. Entry into fresh water environments may be hazardous to aquatic life

### FATE AND TRANSPORT:

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

**PERSISTENCE:** This material is believed to exist in the disassociated state in the environment

**BIOCONCENTRATION:** This material has not been tested, but based on the components it is believed not to bioconcentrate.

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## 13. DISPOSAL CONSIDERATIONS

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**Waste from material:**

Reuse or reprocess, if possible. 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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## 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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## 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.

**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
Calcium Carbonate 1317-65-3	Not Listed	Not Listed	Not Listed	Listed	4001	Not Listed
Calcium sulfate (inhaled fraction) [Sulfuric acid, calcium salt (1:1)] (containing no asbestos and < 1% crystalline silica) 7778-18-9	Not Listed	Not Listed	Not Listed	Listed	4003	Not Listed
Silicon Dioxide - hydrated 7631-86-9	Not Listed	Not Listed	Not Listed	Listed	1655	Not Listed

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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
Calcium Carbonate 1317-65-3	Not Listed	Listed	Not Listed	Not Listed	Listed
Calcium sulfate (inhaled fraction) [Sulfuric acid, calcium salt (1:1)] (containing no asbestos and < 1% crystalline silica) 7778-18-9	Not Listed	Listed	Not Listed	Not Listed	Not Listed
Silicon Dioxide - hydrated 7631-86-9	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 Classified

**16. OTHER INFORMATION**

Prepared by: OxyChem Corporate HESS - Product Stewardship

Rev. Date: 12-Nov-2007

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

Health Rating: 1

Flammability Rating: 0

Reactivity Rating: 0

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

Health Rating: 1

Flammability: 0

Reactivity Rating: 0

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**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
- 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
- Updated First Aid Measures: SEE SECTION 4
- Revised Accidental Release Measures: SEE SECTION 6
- Revised Handling and Storage Recommendations: 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 "End of Safety Data Sheet" phrase
- Added Revision log: SEE SECTION 16

**IMPORTANT:**

The information presented herein, while not guaranteed, was prepared by technical personnel and is true and accurate to the best of our knowledge. NO WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, OR WARRANTY OR GUARANTY OF ANY OTHER KIND, EXPRESSED OR IMPLIED, IS MADE REGARDING PERFORMANCE, SAFETY, SUITABILITY, STABILITY OR OTHERWISE. This information is not intended to be all-inclusive as to the manner and conditions of use, handling, storage, disposal and other factors that may involve other or additional legal, environmental, safety or performance considerations, and OxyChem assumes no liability whatsoever for the use of or reliance upon this information. While our technical personnel will be happy to respond to questions, safe handling and use of the product remains the responsibility of the customer. No suggestions for use are intended as, and nothing herein shall be construed as, a recommendation to infringe any existing patents or to violate any Federal, State, local or foreign laws

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**