

SAFETY DATA SHEET

M1252 - ANSI - EN



Distributed By:



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POTASSIUM CARBONATE (ANHYDROUS ALL GRADES)

SDS No.: M1252

SDS Revision Date: 02-Dec-2014

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Company Identification: Armand Products Company
469 North Harrison Street
Princeton, NJ 08543-5297

24 Hour Emergency Telephone Number: 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

To Request an SDS: MSDS@oxy.com or 1-972-404-3245

Customer Service: 1-800-522-0540 or 1-609-683-5900

Product Identifier: **POTASSIUM CARBONATE (ANHYDROUS ALL GRADES)**

Trade Name: Potassium Carbonate Extra Fine; Potassium Carbonate Glass; Potassium Carbonate Dense Granular; Potassium Carbonate Fine

Synonyms: Pearlash, Potash, PotCarb

Product Use: Glass Production, Photographic, detergents / soaps, Fertilizer *, Rubber products, Pharmaceuticals, Potassium Silicates, Food processing, Gas Treatment, Agricultural Chemicals, Cement, catalysts

Uses Advised Against: None identified.

Note: *Check with national and local regulatory agencies to determine status of use in a fertilizer application

2. HAZARDS IDENTIFICATION

OSHA REGULATORY STATUS: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

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EMERGENCY OVERVIEW:

Color: White
Physical state Solid, Granular powder
Appearance: Free-flowing, Granular
Signal Word: **WARNING**

MAJOR HEALTH HAZARDS: CAUSES SERIOUS EYE IRRITATION. CAUSES SKIN IRRITATION. MAY CAUSE RESPIRATORY TRACT IRRITATION. HARMFUL IF INHALED OR SWALLOWED.

AQUATIC TOXICITY: HARMFUL TO AQUATIC LIFE. May increase pH of waterways and adversely affect aquatic life.

PRECAUTIONARY STATEMENTS: Avoid contact with skin and eyes. Wash skin and contaminated clothing thoroughly after handling. Wear protective gloves, protective clothing, eye, and face protection. Avoid breathing dust. Use only outdoors or in a well-ventilated area. Avoid release to the environment.

GHS CLASSIFICATION:

GHS: CONTACT HAZARD - SKIN:	Category 2 - Causes skin irritation
GHS: CONTACT HAZARD - EYE:	Category 2A - Causes serious eye irritation
GHS: SENSITIZATION HAZARD:	No está clasificado como sensibilizador dérmico según los criterios GHS This material when applied to the skin of guinea pigs did not elicit any dermal sensitization reaction
GHS: ACUTE TOXICITY - INHALATION:	Category 4 - Harmful if inhaled
GHS: ACUTE TOXICITY - ORAL:	Category 4 - Harmful if swallowed
GHS: ACUTE TOXICITY - DERMAL:	Not classified as acutely toxic for dermal exposure
GHS: TARGET ORGAN TOXICITY (SINGLE EXPOSURE):	Category 3 - May cause respiratory tract irritation
GHS: CARCINOGENICITY:	This product is not classified as a carcinogen by NTP, IARC or OSHA.
GHS: HAZARDOUS TO AQUATIC ENVIRONMENT - ACUTE HAZARD:	Category 3 - Harmful to aquatic life

UNKNOWN ACUTE TOXICITY:

Not applicable. This product was tested as a whole. This information only pertains to untested mixtures.

GHS SYMBOL:

Exclamation mark

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GHS SIGNAL WORD: WARNING

GHS HAZARD STATEMENTS:

GHS - Health Hazard Statement(s)

Causes serious eye irritation
Causes skin irritation
Harmful if swallowed
Harmful if inhaled
May cause respiratory irritation

GHS - Precautionary Statement(s) - Prevention

Wear protective gloves, protective clothing, eye, and face protection
Wash thoroughly after handling
Avoid breathing dust
Use only outdoors or in a well-ventilated area
Do not eat, drink or smoke when using this product

GHS - Precautionary Statement(s) - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
Specific treatment (see First Aid information on product label and/or Section 4 of the SDS)
IF ON SKIN: Wash with plenty of water
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash it before reuse
IF INHALED: Remove person to fresh air and keep comfortable for breathing
Call a POISON CENTER or doctor/physician if you feel unwell
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Rinse mouth

GHS - Precautionary Statement(s) - Storage

Store in a well-ventilated place. Keep container tightly closed
Store locked up

GHS - Precautionary Statement(s) - Disposal

Dispose of contents and container in accordance with applicable local, regional, national, and/or international regulations

Hazards Not Otherwise Classified (HNOC)

None Known

See Section 11: TOXICOLOGICAL INFORMATION

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3. COMPOSITION/INFORMATION ON INGREDIENTS**Synonyms:** Pearlash, Potash, PotCarb

Component	Percent [%]	CAS Number
Potassium Carbonate	98.5 - 100	584-08-7
Water	0 - 1.0	7732-18-5
Impurities	0 - 0.5	NOT ASSIGNED

4. FIRST AID MEASURES

INHALATION: If inhaled and adverse effects occur, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

SKIN CONTACT: Immediately brush off excess chemical and flush contaminated areas with plenty of water. Remove contaminated clothing, jewelry and shoes. **SPECIFIC TREATMENT:** Irrigation with water. **IF SKIN IRRITATION OCCURS:** GET MEDICAL ADVICE/ATTENTION. Wash contaminated clothing before re-use.

EYE CONTACT: Immediately flush contaminated eyes with a directed stream of water for as long as possible. Remove contact lenses, if present and easy to do. Continue rinsing. **GET MEDICAL ATTENTION IMMEDIATELY.**

INGESTION: If swallowed: Rinse mouth. Do NOT induce vomiting. Give water as tolerated. Never give anything by mouth to an unconscious or convulsive person. If vomiting occurs spontaneously, keep airway clear. If you feel unwell, contact a poison center or doctor/physician.

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 skin may cause redness, or irritation.

Eye: Eye Irritation: Exposure to eyes may cause severe irritation and redness to the eye lids, conjunctiva. There is potential for permanent and severe eye damage if not treated immediately.

Ingestion (Swallowing): Gastrointestinal System Effects: Slightly toxic on ingestion. May be severely irritating to gastrointestinal tract possibly causing oral, esophageal, glottis redness, irritation, ulceration, edema, and stomach and intestinal irritation and burns. Ingestion of large quantities may cause ulceration, vomiting, shock, and death.

Delayed Symptoms/Effects:

- Repeated or prolonged contact may result in dermatitis

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 contact with skin and eyes. Do not breathe dust. At minimum, treating personnel should utilize PPE sufficient for prevention of bloodborne pathogen transmission.

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5. FIRE-FIGHTING MEASURES

Fire Hazard: Negligible fire hazard.

Extinguishing Media: Use extinguishing medium as 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.

Hazardous Combustion Products: Oxides of carbon, Potassium oxides

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

Auto-ignition Temperature: No information available

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Avoid contact with skin and eyes. Avoid breathing dust. Avoid dust formation. Wash thoroughly after handling. 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.

7. HANDLING AND STORAGE

Precautions for Safe Handling:

Avoid contact with skin and eyes. Avoid creation of dust. Avoid breathing dust. When using, do not eat, drink or smoke. Wash thoroughly after handling. Do not reuse containers. Use only in well-ventilated areas.

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Safe Storage Conditions:

Store and handle in accordance with all current regulations and standards. Keep container tightly closed and properly labeled. Granular material is slightly hygroscopic; ground 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:

Acids, Lime, Prolonged contact with aluminum, brass, bronze, copper, lead, tin, zinc or other alkali sensitive metals or alloys

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Regulatory Exposure Limit(s): As listed below.

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): As listed below.

OXY REL 8 hr TWA	Recommended Exposure Limit - 2 mg/m ³ recommended Time Weighted Average - 8 hour (internal Occupational Exposure Limit) (Inhalable Particulate)
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- *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: Provide local exhaust ventilation where dust or mist may be generated. Ensure compliance with applicable exposure limits.

PERSONAL PROTECTIVE EQUIPMENT:

Eye Protection: Wear safety glasses with side-shields. If eye contact is likely, wear chemical resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Skin and Body Protection: Wear protective clothing to minimize skin contact. When potential for contact with dry material exists, wear disposable coveralls suitable for dust exposure, such as Tyvek®. Contaminated clothing should be removed and laundered before reuse.

Hand Protection: Wear appropriate chemical resistant gloves. Consult a glove supplier for assistance in selecting an appropriate chemical resistant glove.

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

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Respiratory Protection: 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. When an air purifying respirator is not adequate for spills and/or emergencies of unknown concentrations, an approved self-contained breathing apparatus operated in the pressure demand mode is required. A respiratory protection program that meets 29 CFR 1910.134 must be followed whenever workplace conditions warrant use of a respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Solid, Granular powder
Appearance:	Free-flowing, Granular
Color:	White
Molecular Weight:	138.21
Molecular Formula:	K ₂ CO ₃
Decomposition Temperature:	212 - 392 °F (100 - 200 °C)
Boiling Point/Range:	Not applicable to solids
Freezing Point/Range:	Not applicable to solids.
Melting Point/Range:	1636 °F (891 °C)
Vapor Pressure:	Not applicable
Vapor Density (air=1):	Not applicable
Relative Density - Specific Gravity (water=1):	2.428 @ 19 (°C)
Density:	1201 - 1330 g/L (granular); 560 - 625 g/L (ground) @ 20 °C
Bulk Density:	75-83 lb/ft ³ (granular; 35-39 lb/ft ³ (ground) @ 20 °C
Water Solubility:	100%
pH:	moderately basic in solution
Volatility:	Not applicable
Evaporation Rate (ether=1):	Not applicable
Partition Coefficient (n-octanol/water):	Not applicable
Flash point:	Not flammable
Flammability (solid, gas):	Not flammable
Lower Flammability Level (air):	Not flammable
Upper Flammability Level (air):	Not flammable
Auto-ignition Temperature:	No information available
Viscosity:	Not applicable
Hygroscopic:	Yes

10. STABILITY AND REACTIVITY

Reactivity: Not reactive under normal temperatures and pressures.

Chemical Stability: Stable at normal temperatures and pressures.

Possibility of Hazardous Reactions:

Avoid contact with lime to prevent formation of corrosive potassium hydroxide (KOH).

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Conditions to Avoid:

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

Incompatibilities/ Materials to Avoid:

Acids, Lime, Prolonged contact with aluminum, brass, bronze, copper, lead, tin, zinc or other alkali sensitive metals or alloys

Hazardous Decomposition Products: Carbon oxides, Potassium oxides**Hazardous Polymerization:** Will not occur.**11. TOXICOLOGICAL INFORMATION****TOXICITY DATA:****PRODUCT TOXICITY DATA: POTASSIUM CARBONATE (ANHYDROUS ALL GRADES)**

LD50 Oral: 1,870 mg/kg (Rat)	LD50 Dermal: >2000 mg/kg (Rabbit)	LC50 Inhalation: > 4.96 mg/l (rat/4.5 hour)
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COMPONENT TOXICITY DATA:

Component	LD50 Oral:	LD50 Dermal:	LC50 Inhalation:
Potassium Carbonate 584-08-7	1870 mg/kg (Rat)	-----	-----

POTENTIAL HEALTH EFFECTS:

- Eye contact:** Eye exposure may cause severe irritation and redness to the eye lids, conjunctiva. Untreated, prolonged eye contact can cause permanent and severe eye damage.
- Skin contact:** Exposure to skin may cause redness, irritation.
- Inhalation:** Inhalation of this material may cause upper airway irritation, cough, redness of mouth and upper airways.
- Ingestion:** Ingestion of this material may cause oral, esophageal, glottis redness, irritation, ulceration, edema, and stomach and intestinal irritation and burns. Ingesting large quantities may cause ulceration, vomiting, shock, and death.
- Chronic Effects:** Repeated or prolonged contact may result in dermatitis.

SIGNS AND SYMPTOMS OF EXPOSURE:

Listed below.

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

Skin: Skin Irritation: Exposure to skin may cause redness, or irritation.

Eye: Eye Irritation: Exposure to eyes may cause severe irritation and redness to the eye lids, conjunctiva. There is potential for permanent and severe eye damage if not treated immediately.

Ingestion (Swallowing): Gastrointestinal System Effects: Slightly toxic on ingestion. May be severely irritating to gastrointestinal tract possibly causing oral, esophageal, glottis redness, irritation, ulceration, edema, and stomach and intestinal irritation and burns. Ingestion of large quantities may cause ulceration, vomiting, shock, and death.

ACUTE TOXICITY:

This material when applied to the skin of guinea pigs did not elicit any dermal sensitization reaction.

Interaction with Other Chemicals Which Enhance Toxicity: None known

GHS HEALTH HAZARDS:

Listed below

GHS: ACUTE TOXICITY - ORAL: Category 4 - Harmful if swallowed.

GHS: ACUTE TOXICITY - DERMAL: Not classified as acutely toxic for dermal exposure.

GHS: ACUTE TOXICITY - INHALATION: Category 4 - Harmful if inhaled.

GHS: CONTACT HAZARD - SKIN: Category 2 - Causes skin irritation

GHS: CONTACT HAZARD - EYE: Category 2A - Causes serious eye irritation

GHS: SENSITIZATION HAZARD: No está clasificado como sensibilizador dérmico según los criterios GHS. This material when applied to the skin of guinea pigs did not elicit any dermal sensitization reaction.

GHS: CARCINOGENICITY:

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

SPECIFIC TARGET ORGAN TOXICITY (Single Exposure):

Category 3 - Respiratory Tract Irritation

MUTAGENIC DATA:

Not classified as a mutagen per GHS criteria. Tested negative in test systems evaluated.

DEVELOPMENTAL TOXICITY:

No discernable effects on maternal or fetal survival were observed in animal studies.

12. ECOLOGICAL INFORMATION

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ECOTOXICITY DATA:

Fish Toxicity:

LC50 Bluegill sunfish: 230 mg/L (96 hour)
LC50 Rainbow trout: 68 mg/L (96 hour)
LC50 Fathead minnow: 940 mg/L (24 hour)
LC50 Fathead minnow: 820 mg/L (48 hour)
LC50 Fathead minnow: <510 mg/L (96 hour)

Invertebrate Toxicity:

EC50 Daphnia magna: 430 mg/L (48 hour) - hard water
EC50 Daphnia pulex: 200 mg/L (48 hour) - soft water

Other Toxicity:

LC50 Ceriodaphnia dubia (water flea): 630 mg/l (24 hour)
LC50 Ceriodaphnia dubia (water flea): 630 mg/l (48 hour)
LC50 Daphnia magna (water flea): 670 mg/l (24 hour)
LC50 Daphnia magna (water flea): 650 mg/l (48 hour)

FATE AND TRANSPORT:

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

PERSISTENCE: This material is believed not to persist in the environment.

BIOACCUMULATIVE POTENTIAL: This material is believed not to bioaccumulate. Potassium carbonate is very soluble in water. Therefore the substance does not accumulate in lipophilic tissues of living organisms.

ADDITIONAL ECOLOGICAL INFORMATION: May increase pH of waterways and adversely affect aquatic life.

13. DISPOSAL CONSIDERATIONS

Waste from material:

Reuse or reprocess, if possible. May be subject to disposal regulations. Measure the pH of solutions to determine disposal restrictions. 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.

14. TRANSPORT INFORMATION

LAND TRANSPORT

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U.S. DOT 49 CFR 172.101:

Status: Not regulated

CANADIAN TRANSPORTATION OF DANGEROUS GOODS:

Status: Not regulated

MARITIME TRANSPORT (IMO / IMDG) Not regulated

Status - IMO / IMDG: Not Regulated

15. REGULATORY INFORMATION

U.S. REGULATIONS

OSHA REGULATORY STATUS:

This material is 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):

Acute Health Hazard

EPCRA SECTION 313 (40 CFR 372.65):

Not regulated.

DEPARTMENT OF HOMELAND SECURITY (DHS)- Chemical Facility Anti-Terrorism Standards (6 CFR 27):

No components in this material are regulated under DHS

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

Not regulated

FDA: This material has Generally Recognized as Safe (GRAS) status under specific FDA regulations. Additional information is available from the Code of Federal Regulations which is accessible on the FDA's website. This product is not produced under all current Good Manufacturing Practices (cGMP) requirements as defined by the Food and Drug Administration (FDA).

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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

There are no applicable state regulations for this product or its components.

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:

- D2B - Poisonous and Infectious Material; Materials causing other toxic effects - Toxic material
-

16. OTHER INFORMATION

Prepared by: OxyChem Corporate HESS - Product Stewardship

Rev. Date: 02-Dec-2014

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

Health Rating: 2

Flammability Rating: 0

Reactivity Rating: 0

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

: Listed below.

Health Rating: 2

Flammability: 0

Reactivity Rating: 0

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Reason for Revision:

- 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
- Emergency Overview was revised: SEE SECTION 2
- Added GHS Information: SEE SECTION 2
- Modified Composition/Information on Ingredients: SEE SECTION 3
- Updated First Aid Measures: SEE SECTION 4
- Modified Fire Fighting Measure Recommendations: SEE SECTION 5
- 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
- Added SDS Revision Date: SEE SECTION 16
- HMIS and/or NFPA Rating has changed: 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

End of Safety Data Sheet