

# CAL CARB MIX

## **SECTION 1. IDENTIFICATION**

Product Identifier CAL CARB MIX
Other Means of Calcium Carbonate

Identification

**Recommended Use** Drilling Fluid Additive.

Manufacturer / AES Drilling Fluids, LLC, 11767 Katy Freeway, Suite 230, Houston, TX, 77079, Sales &

**Supplier** Information, 281-556-5628

Emergency Phone No. CHEMTREC, 1-800-424-9300, 24-hour Emergency

**Date of Preparation** May 14, 2015

# **SECTION 2. HAZARDS IDENTIFICATION**

## **GHS Classification**

Acute toxicity (Inhalation) - Category 5; Skin corrosion/irritation - Category 3; Serious eye damage/eye irritation - Category 2B; Carcinogenicity - Category 1A; Specific target organ toxicity (repeated exposure) - Category 1

## **GHS Label Elements**



Signal Word:

Danger

Hazard Statement(s):

H333 May be harmful if inhaled. H316 Causes mild skin irritation. H320 Causes eye irritation.

H372 Causes damage to organs through prolonged or repeated exposure.

H350 May cause cancer.

Precautionary Statement(s):

Prevention:

P260 Do not breathe dust.

P270 Do not eat, drink or smoke when using this product. P264 Wash hands and skin thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P304 + P312 IF INHALED: Call a POISON CENTRE/doctor/ if you feel unwell.

P302 + P352 IF ON SKIN: Wash with plenty of water.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P301 + P312 If SWALLOWED: Call a POISON CENTRE/doctor/ if you feel unwell.

P308 + P313 IF exposed or concerned: Get medical advice/attention.

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# **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS No.	%	Other Identifiers
Calcium carbonate	471-34-1	100	
Silica, quartz	14808-60-7	<0.1	

## **SECTION 4. FIRST-AID MEASURES**

## **First-aid Measures**

#### Inhalation

Remove source of exposure or move to fresh air. Keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms (e.g. coughing, shortness of breath, wheezing), call a Poison Centre or doctor.

## **Skin Contact**

Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes. If irritation develops, seek medical attention.

## **Eye Contact**

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. If eye irritation persists, get medical advice/attention.

# Ingestion

Rinse mouth with water. Get medical advice/attention if you feel unwell or are concerned.

## **First-aid Comments**

Inhalation of product may aggravate existing respiratory illness.

## **SECTION 5. FIRE-FIGHTING MEASURES**

## Suitable Extinguishing Media

Water, Carbon Dioxide, Foam, Dry chemical.

## Specific Hazards Arising from the Chemical

Contact with strong oxidizing agents may cause fire and/or explosion.

Oxides of carbon.

## Special Protective Equipment and Precautions for Fire-fighters

When fighting chemical fires, emergency responders should wear NIOSH approved self contained breathing apparatus and appropriate protective clothing.

# **SECTION 6. ACCIDENTAL RELEASE MEASURES**

## Personal Precautions, Protective Equipment, and Emergency Procedures

Keep out unnecessary and unprotected personnel. Use the personal protective equipment recommended in Section 8 of this safety data sheet.

## **Environmental Precautions**

Do not allow into any sewer, on the ground or into any waterway. Prevent product from entering drains, soil, ditches, sewers, waterways and/or groundwater.

## Methods and Materials for Containment and Cleaning Up

Collect using shovel/scoop or approved HEPA vacuum and place in a suitable container for disposal. Avoid generating dust. Avoid dry sweeping. If necessary, use a dust suppressant such as water. Do not use compressed air for clean-up. Store recovered product in suitable containers for disposal according to local regulations.

## Other Information

Contact EH&S regarding spill as spills of certain products and certain quantities may require reporting to various authorities.

# **SECTION 7. HANDLING AND STORAGE**

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## **Precautions for Safe Handling**

It is good practice to: avoid breathing product; avoid skin and eye contact and wash hands after handling. Do not breathe in this product. Avoid generating dusts. Do not eat, drink or smoke in areas where product is handled. Employees should wash hands after working with product and before going on breaks outside of the work area. Wear personal protective equipment to avoid direct contact with this chemical. See Section 8 for appropriate Personal Protective Equipment (PPE).

# **Conditions for Safe Storage**

Store in an area that is: cool, dry, well-ventilated. Separate from incompatible materials use good housekeeping to prevent accumulation of dust.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control Parameters

	ACGIH®	ACGIH® TLV®		OSHA PEL		AIHA® WEEL™	
Chemical Name	TWA	STEL [C]	TWA	Ceiling	8-hr TWA	Short-term TWA [C]	
Calcium carbonate	5 mg/m3 (R)		5 mg/m3 (R)		Not established		
Silica, quartz	0.025 mg/m3 A2		0.1 mg/m3		Not established		

ACGIH® = American Conference of Governmental Industrial Hygienists. TWA = Time-Weighted Average. R = Respirable fraction. STEL = Short-term Exposure Limit. C = Ceiling limit. OSHA = US Occupational Safety and Health Administration. PEL = Permissible Exposure Limits. AIHA® = AIHA® Guideline Foundation. WEEL™ = Workplace Environmental Exposure Limit. Short-term TWA = Time-Weighted Average with specified time limit. Control parameter values for respirable dust.

## **Appropriate Engineering Controls**

Use local exhaust ventilation, if general ventilation is not adequate to control amount in the air. A suitable eyewash station should be within acceptable distance to the work area.

#### **Individual Protection Measures**

## **Eye/Face Protection**

Safety glasses or goggles. Use goggles or face shield when there is risk of eye contact or visible dust produced.

# **Skin Protection**

Wear appropriate gloves while handling product. Wear long sleeves, long pants and appropriate footwear while working with product.

## **Respiratory Protection**

If conditions exist above the OEL if conditions of use promote large amounts of dust to gather in the work area, wear NIOSH approved dust mask or respirator.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

# **Basic Physical and Chemical Properties**

**Appearance** Grey - white powder.

Odour Odourless pH Not available

Melting Point/Freezing Point Not available (melting); Not available (freezing)

Initial Boiling Point/RangeNot availableFlash PointNot availableEvaporation RateNot availableFlammability (solid, gas)Not available

**Upper/Lower Flammability or** 

**Explosive Limit** 

Not available (upper); Not available (lower)

Vapour Pressure Not available

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Vapour Density (air = 1) Not available Relative Density (water = 1) 2.60 - 2.75

Solubility Insoluble in water
Partition Coefficient, Not available

n-Octanol/Water (Log Kow)

Auto-ignition TemperatureNot availableDecomposition TemperatureNot available

Other Information

Physical State Solid

# **SECTION 10. STABILITY AND REACTIVITY**

## Reactivity

Not reactive under normal conditions of use.

## **Chemical Stability**

Normally stable.

# Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

## **Conditions to Avoid**

None known.

## **Incompatible Materials**

Strong acids.

# **Hazardous Decomposition Products**

Carbon oxides.

# **SECTION 11. TOXICOLOGICAL INFORMATION**

## **Likely Routes of Exposure**

Inhalation; skin contact; eye contact.

## **Acute Toxicity**

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Calcium carbonate	Not available	6450 mg/kg (rat)	Not available
Silica, quartz	Not available	500 mg/kg (rat)	Not available

## Skin Corrosion/Irritation

May cause skin irritation.

## Serious Eye Damage/Irritation

May cause mechanical irritation to eyes.

## STOT (Specific Target Organ Toxicity) - Single Exposure

## Inhalation

May be harmful if inhaled. Material is irritating to mucous membranes and upper respiratory tract.

## Ingestion

Low ingestion hazard in normal use. If large amounts are swallowed may cause. irritation of the gastrointestinal tract.

## STOT (Specific Target Organ Toxicity) - Repeated Exposure

This product may contain trace amounts of crystalline silica (quartz). Long term exposure to respirable crystalline silica dust over the TLV may lead to the development of silicosis or other respiratory problems. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness and reduced pulmonary function.

# Respiratory and/or Skin Sensitization

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Not known to be a respiratory sensitizer. Not known to be a skin sensitizer.

## Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
Calcium carbonate	Not Listed	Not Listed	Not Listed	Not Listed
Silica, quartz	Group 1	A2	Known carcinogen	Not Listed

This product may contain trace amounts of crystalline silica which the International Agency for Research on Cancer (IARC) has listed as Group 1 - Carcinogenic to humans.

Key to Abbreviations

IARC = International Agency for Research on Cancer. Group 1 = Carcinogenic to humans. ACGIH® = American Conference of Governmental Industrial Hygienists. A2 = Suspected human carcinogen. NTP = National Toxicology Program. OSHA = US Occupational Safety and Health Administration.

# **Reproductive Toxicity**

**Development of Offspring** 

No information was located.

**Sexual Function and Fertility** 

No information was located.

**Effects on or via Lactation** 

No information was located.

# **Germ Cell Mutagenicity**

No information was located.

#### Interactive Effects

Smoking and being exposed to free silica may cause a greater risk of developing certain pulmonary illnesses.

# **SECTION 12. ECOLOGICAL INFORMATION**

Do not allow product to contaminate domestic or irrigation water supplies, lakes, streams, ponds or rivers.

## **Toxicity**

No information was located.

# **Acute Aquatic Toxicity**

Chemical Name	LC50 Fish	EC50 Crustacea	ErC50 Aquatic Plants	ErC50 Algae
Calcium carbonate	Not available	Not available	Not available	Not available
Silica, quartz	Not available	Not available	Not available	Not available

## Persistence and Degradability

No information was located.

## **Bioaccumulative Potential**

No information was located.

## **Mobility in Soil**

No information was located.

# **SECTION 13. DISPOSAL CONSIDERATIONS**

## **Disposal Methods**

Dispose of in accordance with all local, state and federal regulations. Not classified as RCRA Hazardous. RCRA WASTE NUMBER: Not Applicable.

## **SECTION 14. TRANSPORT INFORMATION**

Not regulated under US DOT Regulations.

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## **SECTION 15. REGULATORY INFORMATION**

# Safety, Health and Environmental Regulations USA

## Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are on the TSCA Inventory or exempt from the TSCA.

# **Additional USA Regulatory Lists**

CERCLA: Product does not contain any chemicals subject to the reporting requirement of CERCLA.

SARA Title III - Section 302: No listed components.

SARA Title III - Section 311/312: Acute Hazards Chronic Health Hazard.

SARA Title III - Section 313: No chemicals are reportable under Section 313.

## **SECTION 16. OTHER INFORMATION**

NFPA Rating Health - 1 Flammability - 0 Instability - 0

SDS Prepared By AES Drilling Fluids Phone No. 281-556-5628

Date of Preparation May 14, 2015

**Disclaimer** Do not handle or use until precautions on MSDS are read and understood. The information on

this form is furnished solely for the purpose of enabling those who transport, handle or use our products to ensure the safety and health of their employees and to comply with various laws and regulations (federal, state and local). We believe the statements, technical information and recommendations contained herein are reliable but, they are given without warranty or guarantee of any kind, express or implied and we assume no responsibility for any loss,

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