



# Duratec ER

# **SECTION 1. IDENTIFICATION**

Product Identifier	Duratec ER
Other Means of Identification	Drilling fluid additive
Recommended Use	Fluid Loss Control.
Manufacturer / Supplier	AES Drilling Fluids, LLC, 11767 Katy Freeway, Suite 230, Houston, TX, 77079, Sales & Information, 281-556-5628
Emergency Phone No. Date of Preparation	CHEMTREC, 1-800-424-9300, 24-hour Emergency May 06, 2015

# **SECTION 2. HAZARDS IDENTIFICATION**

#### **GHS Classification**

Skin corrosion/irritation - Category 2; Serious eye damage/eye irritation - Category 2B; Specific target organ toxicity (repeated exposure) - Category 2

#### **GHS Label Elements**



Signal Word: Warning Hazard Statement(s): H320 Causes eye irritation. Causes skin irritation. H315 May cause damage to organs through prolonged or repeated exposure. H373 Precautionary Statement(s): Prevention: P260 Do not breathe dust. P264 Wash hands and skin thoroughly after handling. P280 Wear protective gloves/eye protection/face protection. P271 Use only outdoors or in a well-ventilated area. Response: P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P302 + P352 IF ON SKIN: Wash with plenty of water. P337 + P313 If eye irritation persists: Get medical advice/attention. P332 + P313 If skin irritation occurs: Get medical advice/attention. P314 Get medical advice/attention if you feel unwell.

#### **Other Hazards**

POTENTIAL HEALTH EFFECTS: EYE: Dust in eye may result in mechanical irritation.

# SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Contains no hazardous ingredients. Mixture:

Chemical Name	CAS No.	%	Other Identifiers
Diatomaceous earth, uncalcined	61790-53-2	7-9	
Silica, quartz	14808-60-7	<1	
Trade Secret	CBI*	Confidential	
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# Notes

The specific chemical identity and/or exact percentage of composition (concentration) has been withheld as a trade secret.

CBI = Confidential Business Information.

# SECTION 4. FIRST-AID MEASURES

# First-aid Measures

### Inhalation

Remove source of contaminant or move to fresh air. Get medical advice/attention if you feel unwell or are concerned.

### Skin Contact

Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes. If irritation persists, get medical advice/attention.

### Eye Contact

Flush eyes thoroughly with lukewarm water for 15 minutes. If eye irritation persists, get medical advice/attention.

### Ingestion

Rinse mouth with water. Keep respiratory tract clear. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell or are concerned.

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

#### Suitable Extinguishing Media

Water, Dry chemical, Carbon Dioxide, Foam. Not combustible. Use extinguishing agent suitable for surrounding fire.

# Specific Hazards Arising from the Chemical

This product presents no unusual hazards in a fire situation.

The nature of decomposition products is not known and will be influenced by other products/materials involved in the fire.

#### **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

Use the personal protective equipment recommended in Section 8 of this safety data sheet.

#### **Environmental Precautions**

It is good practice to prevent releases into the environment.

# Methods and Materials for Containment and Cleaning Up

Eliminate all ignition sources. Vacuum or sweep product up, try to minimize dust build-up. Containerize for solid waste disposal. Dispose of according to local, state and federal regulations.

# **SECTION 7. HANDLING AND STORAGE**

# Precautions for Safe Handling

Product Identifier:	Duratec ER
Date of Preparation:	May 06, 2015

# Conditions for Safe Storage

STORAGE: Keep in closed containers in cool, dry, well ventilated area.

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Control Parameters**

	ACGIH® TLV®		OSHA PEL		AIHA® WEEL™	
Chemical Name	TWA	STEL [C]	TWA	Ceiling	8-hr TWA	Short-term TWA [C]
Diatomaceous earth, uncalcined	0.025 mg/m3 A2		0.1 mg/m3		Not established	
Silica, quartz	0.025 mg/m3 A2		0.1 mg/m3		Not established	
Trade Secret	Not established		Not established		Not established	
Trade Secret	Not established		Not established		Not established	

ACGIH® = American Conference of Governmental Industrial Hygienists. TLV® = Threshold Limit Value. TWA = Time-Weighted Average. OSHA = US Occupational Safety and Health Administration. PEL = Permissible Exposure Limits. AIHA® = AIHA® Guideline Foundation. WEEL<sup>™</sup> = Workplace Environmental Exposure Limit.

### **Appropriate Engineering Controls**

Use local exhaust ventilation, if general ventilation is not adequate to control amount in the air. While working with this product an eyewash 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 gloves and apron if exposure is expected. Wear long sleeves, long pants and appropriate footwear while working with product.

# **Respiratory Protection**

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	White - tan powder.
Odour	Odourless
рН	Not applicable
Melting Point/Freezing Point	Not available (melting); Not applicable (freezing)
Initial Boiling Point/Range	Not applicable
Flash Point	Not applicable
Evaporation Rate	Not applicable
Flammability (solid, gas)	Not available
Upper/Lower Flammability or Explosive Limit	Not available (upper); Not available (lower)
Vapour Pressure	Not applicable
Vapour Density (air = 1)	Not applicable
Relative Density (water = 1)	1.13

Solubility	Insoluble in water
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Other Information	
Physical State	Solid

# SECTION 10. STABILITY AND REACTIVITY

#### Reactivity

Not reactive under normal conditions of use.

#### Chemical Stability

Stable under normal conditions.

#### Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

#### **Conditions to Avoid**

None known.

#### Incompatible Materials

None known.

#### **Hazardous Decomposition Products**

Oxides of carbon.

# SECTION 11. TOXICOLOGICAL INFORMATION

### Likely Routes of Exposure

Inhalation; skin contact; eye contact; ingestion.

### Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Diatomaceous earth, uncalcined	Not available	Not available	Not available
Silica, quartz	Not available	500 mg/kg (rat)	Not available
Trade Secret	Not available	Not available	Not available
Trade Secret	Not available	Not available	Not available

#### Skin Corrosion/Irritation

May cause mild skin irritation.

#### Serious Eye Damage/Irritation

May cause mechanical irritation to eyes.

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

# Inhalation

May result in mechanical irritation of the respiratory tract from high dust concentrations. May aggravate asthma. **Ingestion** 

May cause discomfort if swallowed.

# STOT (Specific Target Organ Toxicity) - Repeated Exposure

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**

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

# Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
Diatomaceous earth, uncalcined	Not Listed	Not Listed	Not Listed	Not Listed
Silica, quartz	Group 1	A2	Known carcinogen	Not Listed
Trade Secret	Not Listed	Not designated	Not Listed	Not Listed
Trade Secret	Not Listed	Not Listed	Not Listed	Not Listed

This product may contain trace amounts of crystalline silica which the International Agency for Research on Cancer (IARC) has listed as causing cancer in 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.

# Reproductive Toxicity

Development of Offspring

No information was located.

**Sexual Function and Fertility** 

No information was located.

### **Germ Cell Mutagenicity**

No information was located.

# SECTION 12. ECOLOGICAL INFORMATION

### Environmental information was not located.

### Toxicity

No information was located.

### Acute Aquatic Toxicity

Chemical Name	LC50 Fish	EC50 Crustacea	ErC50 Aquatic Plants	ErC50 Algae
Diatomaceous earth, uncalcined	Not available	Not available	Not available	Not available
Silica, quartz	Not available	Not available	Not available	Not available
Trade Secret	Not available	Not available	Not available	Not available
Trade Secret	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.

# **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: Immediate Health Hazard 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 06, 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, damage, direct or consequential, arising out of their use.

