



P.O. BOX 1603  
EUNICE, LA 70535  
866-457-0064 or 337-457-0064

## SAFETY DATA SHEET

### DEL A-60

#### SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE & OF THE COMPANY/UNDERTAKING

##### 1.1. Product Identifier

Product name: **Del A60**

Type of product: Mixture

##### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Processing aid for industrial applications.

Uses advised against: None.

##### 1.3. Details of the supplier of the safety data sheet

Company: Delta Drilling Products & Services LLC

154 Eastpark Drive

Eunice LA 70535

Telephone: 1- (866) 457-0064

Fax Number: 1- (337) 457-0022

E-mail address: [deltaproducts@bellsouth.net](mailto:deltaproducts@bellsouth.net)

##### 1.4. Emergency telephone number

24-hour emergency number 800-424-9300 CHEMTREC (CCN 20412), Outside U.S 703-527-3887

#### SECTION 2. HAZARDS IDENTIFICATION

##### 1.1. Classification of the substance or mixture

Classification according to paragraph (d) of 29 CFR 1910.1200:

Not classified.

##### 2.2 Label elements

Labeling according to paragraph (f) of 29 CFR 1910.1200:

Hazard symbol(s) None.

Signal word: None.

Precautionary statement(s) None.

##### 2.3. Other hazards

Aqueous solutions or powders that become wet render surfaces extremely slippery.

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

##### 3.1. Substances

Not applicable, this product is not a substance.

##### 3.2. Mixtures

Hazardous components

Silicon dioxide

Concentration/gamme: <5%

CAS Number: 7631-86-9

## SECTION 4. FIRST AID MEASURES

### 4.1. Description of first aid measures

Inhalation:

Move to fresh air. No hazards which require special first aid measures.

Skin Contact:

Wash off with soap and plenty of water. Get medical attention if irritation develops and persists.

Eye Contact:

Rinse immediately with plenty water, also under the eyelids, for at least 15 minutes. In case of persistent eye irritation consult a physician.

Ingestion:

Rinse mouth with water. Do NOT induce vomiting. No hazards which require special first aid measures

### 4.2. Most important symptoms and effects, both acute and delayed.

None.

### 4.3. Indication of any immediate medical attention and special treatment needed.

None reasonably foreseeable.

### Other Information:

Aqueous solutions or powders that become wet render surfaces extremely slippery.

## SECTION 5. FIRE-FIGHTING MEASURES

### 5.1. Extinguishing media

Suitable extinguishing media:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media:

None.

### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products:

Thermal decomposition may produce: hydrogen chloride gas, nitrogen oxides (NO<sub>x</sub>), carbon oxides (CO<sub>x</sub>), Hydrogen cyanide (hydrocyanic acid) may be produced in the event of combustion in an oxygen deficient atmosphere.

### 5.3. Advice for fire-fighters

Protective measures:

In the event of fire, wear self-contained breathing apparatus.

Other information:

Aqueous solutions or powders that become wet render surfaces extremely slippery.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions:

Aqueous solutions or powders that become wet render surfaces extremely slippery.

Protective equipment:

Wear Adequate personal protective equipment (see Section 8 Exposure Controls/Personal Protection).

Emergency procedures:

Keep people away from spill/leak.

## 6.2. Environmental precautions

As with all chemical products, do not flush into surface water.

## 6.3. Methods and material for containment and cleaning up

Small spills:

**Do not flush with water.** Clean up promptly by sweeping or vacuum. Keep in suitable, closed containers for disposal. After cleaning, flush away traces with water.

Large Spills:

**Do not flush with water.** Clean up promptly by sweeping or vacuum. Keep in suitable, closed containers for disposal. After cleaning flush away traces with water.

Residues:

Flush away with large quantities of water.

## 6.4. Reference to other sections

SECTION 7: Handling and storage; SECTION 8: Exposure controls/personal protection; SECTION 9: Physical and chemical properties; SECTION 13: Disposal considerations

# SECTION 7. HANDLING AND STORAGE

## 7.1. Precautions for safe handling

Aqueous solutions or powders that become wet render surfaces extremely slippery. Use personal protective equipment.

## 7.2. Conditions for safe storage, including any incompatibilities.

Keep in a dry place. Keep container closed when not in use. Incompatible with oxidizing agents.

## 7.3. Specific end use(s)

None.

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1. Control parameters

Occupational exposure limits:

### Silicon dioxide

OSHA: 6 mg/m<sup>3</sup> (8-hour)

## 8.2. Exposure controls

### Appropriate engineering controls:

Use local exhaust if dusting occurs. Natural ventilation is adequate in absence of dusts.

### Individual protection measures, such as personal protective equipment:

#### a) Eye/face protection:

Safety glasses with side-shields

#### b) Skin protection:

Work clothes protecting arms, legs and body.

#### i) Hand protection:

PVC or other plastic material gloves

#### c) Respiratory protection:

No personal respiratory protective equipment normally required. Dust safety masks recommended where working powder concentration is more than 10 mg/m<sup>3</sup>.

#### d) Additional advice:

Handle in accordance with good industrial hygiene and safety practice.

### Environmental exposure controls:

Do not allow uncontrolled discharge of product into the environment. Do not flush into surface water.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

a) Appearance:	Granular solid, White.
b) Odour:	None.
c) Odour Threshold:	Not applicable.
d) pH:	5 - 9 @ 5 g/L
e) Melting point/freezing point:	> 150°C
f) Initial boiling point and boiling range:	Not applicable.
g) Flash point:	Not applicable.
h) Evaporation rate:	Not applicable.
i) Flammability (solid, gas):	No data available.
j) Upper/lower flammability or explosive limits:	Not expected to create explosive atmospheres.
k) Vapour pressure	Not applicable.
l) Vapour density:	Not applicable.
m) Relative density:	0.6 - 0.9
n) Solubility(ies)	Soluble in water.
o) Partition coefficient	< 0
p) Autoignition temperature:	Does not self-ignite (based on the chemical structure).
q) Decomposition temperature:	> 150°C
r) Viscosity:	See Technical Bulletin
s) Explosive properties:	Not expected to be explosive based on the chemical structure.
t) Oxidizing properties:	Not expected to be oxidising base on the chemical structure.

### 9.2. Other information

None.

## SECTION 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

None known.

### 10.2. Chemical Stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Oxidizing agents may cause exothermic reactions.

### 10.4. Conditions to avoid

None known.

### 10.5. Incompatible materials

Incompatible with oxidizing agents.

### 10.6. Hazardous decomposition products

Thermal decomposition may produce: hydrogen chloride gas, nitrogen oxides (NO<sub>x</sub>), carbon oxides (CO<sub>x</sub>). Hydrogen cyanide

(hydrocyanic acid).

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### Information on the product as supplied:

Acute oral toxicity: LD50/oral/rat> 5000 mg/kg

Acute dermal toxicity:	LD50/dermal/rat > 5000 mg/kg
Acute inhalation toxicity:	The product is not expected to be toxic by inhalation.
Skin corrosion/irritation:	Not irritating.
Serious eye damage/eye irritation:	Not irritating.
Respiratory/skin sensitization:	Not sensitizing.
Mutagenicity:	Not mutagenic.
Carcinogenicity:	Not carcinogenic.
Reproductive toxicity:	Not toxic for reproduction.
STOT – Single exposure:	No known effects.
STOT – repeated exposure:	No known effects.
Aspiration hazard:	No hazards resulting from the material as supplied.

**Relevant information on the hazardous components:**

**Silicone dioxide**

Acute oral toxicity	LD50/oral/rat > 5000 mg/kg (OECD 401)
Acute dermal toxicity:	LD50/dermal/rabbit > 5000 mg/kg
Acute inhalation toxicity:	LC0/inhalation/4 H/RAT >= 2.08 MG/l (oecd 403)
Skin corrosion/irritation:	Not irritating (OECD 404)
Serious eye damage/eye irritation:	Not irritating. (OECD 405)
Respiratory/skin sensitization:	Did not cause allergic skin reactions when tested in humans.
Mutagenicity:	Negative in the Ames Test (OECD 471). Negative in the In Vitro Mammalian Chromosome Aberration Test (OECD 473). Negative in the in vitro Mammalian Cell Gene Mutation Test (OECD 476).
Carcinogenicity:	Carcinogenicity study in rat (OCDE 453): NOAEL = 1800 – 3000mg/kg/d Carcinogenicity study in rats (OECD 451): Negative
Reproductive toxicity:	NOAEL/rat = 497 mg/kg/day (OECD 415) Prenatal Development Toxicity Study (OECD 414) NOAEL/Maternal toxicity/rat = 1350 mg/kg/day
STOT – Single Exposure	No known effects.
STOT – Repeated Exposure	NOAEL/ORAL/RAT/90 DAYS = 7950 – 8980 MG/KG/DAY (OECD 408)
Aspiration hazard:	No known effects.

**SECTION 12. ECOLOGICAL INFORMATION**

**12.1. Toxicity**

Information on the product as supplied:

Acute toxicity to fish:	LC50/Danio rerio/96 hours > 100 mg/L
Acute toxicity to invertebrates:	EC50/Daphnia magna/48 hours > 100mg/L
Acute toxicity to algae:	Algal inhibition tests are not appropriate. The flocculation characteristics of the product interfere directly in the test medium preventing homogenous distribution which invalidates the test.
Chronic toxicity to fish:	No data available.
Chroic toxicity to invertebrates:	No data available.
Toxicity to microorganisms:	No data available.
Effects on terrestrial organisms:	No data available.
Sediment toxicity:	No data available.

Relevant information on the hazardous components:

Silicon dioxide

Acute toxicity to fish:	LC0/Danio rerio/96 hours = 10000 mg/L (OECD 203)
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Acute toxicity to invertebrates:	EC0/Daphnia magna/24 hours = 1000 mg/L (OECD 202)
Acute toxicity to algae:	NOEC/Desmodesmus subspicatus/72 hours = 10000 mg/L (OECD 201) (Based on results obtained from tests on analogous products)
Chronic toxicity to fish:	No data available.
Chronic toxicity to invertebrates:	No data available.
Toxicity to microorganisms:	No data available.
Effects on terrestrial organisms:	No data available.
Sediment toxicity:	No data available.

## 12.2. Persistence and degradability

### Information on the product as supplied:

Degradation:	Not readily biodegradable.
Hydrolysis:	Does not hydrolyse.
Photolysis:	No data available.

### Relevant information on the hazardous components:

#### Silicon dioxide

Degradation:	Not relevant (inorganic).
Hydrolysis:	No data available.
Photolysis:	No data available.

## 12.3. Bioaccumulative potential

### Information on the product as supplied:

Not bioaccumulating.	
Partition co-efficient (Log Pow):	< 0
Biocentration factor (BCF):	No data available.

### Relevant information on the hazardous components:

#### Silicone dioxide

Partition co-efficient (Log Pow):	< 1
Biocentration factor (BCF):	No data available.

## 12.4. Mobility in soil

### Information on the product as supplied:

None

### Relevant information on the hazardous components:

#### Silicon dioxide

Koc: No data available.

## 12.5. Other adverse effects

None known.

# SECTION 13. DISPOSAL CONSIDERATIONS

## 13.1. Waste treatment methods

### Waste from residues/unused products:

Dispose in accordance with local and national regulations. Can be landfilled or incinerated, when in compliance with local regulations.

Contaminated packaging:

Rinse empty containers with water and use the rinse-water to prepare the working solution. Dispose in accordance with local and national regulations. Can be landfilled or incinerated, when in compliance with local regulations.

Recycling:

The product and its packaging are not suitable for recycling.

## SECTION 14. TRANSPORTATION INFORMATION

**Land Transport (DOT)**

Not Classified.

**Sea transport (IMDG)**

Not classified.

**Air transport (IATA)**

Not classified.

## SECTION 15. REGULATORY INFORMATION

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Information on the product as supplied:

TSCA Chemical Substances Inventory:

All components of this product are either listed on the inventory or are exempt from listing.

US SARA Reporting Requirements:

SARA (Section 311/312) hazard class:

Not concerned.

RCRA Status:

Not RCRA hazardous.

California Proposition 65 Information:

**WARNING!** This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm, Acrylamide.

## SECTION 16. OTHER INFORMATION

NFPA and HMIS Ratings:

NFPA:

Health 0

Flammability: 0

Instability: 0



HMIS:

Health: 0  
Flammability: 0  
Physical Hazard: 0  
PPE Code: B

This data sheet contains changes from the previous version in section(s):

SECTION 1. Identification of the substance/mixture and of the company/undertaking, SECTION 2. Hazards identification, SECTION 3. Composition/information on ingredients, SECTION 4. First aid measures, SECTION 5. Fire-fighting measures, SECTION 6. Accidental release measures, SECTION 7. Handling and storage, SECTION 8. Exposure controls/personal protection, SECTION 9. Physical and chemical properties, SECTION 10. Stability and reactivity, SECTION 11. Toxicological information, SECTION 12. Ecological information, SECTION 13. Disposal considerations, SECTION 14. Transport information, SECTION 15. Regulatory information, SECTION 16. Other Information.

Key or legend to abbreviations and acronyms used in the safety data sheet:

None.

This SDS was prepared in accordance with the following:

U. S. Code of Federal Regulations 29 CFR 1910.1200

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.