

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name: Delta S
CAS#: NA

1.2 Recommended uses:

Asphalt Additive

1.3 Details of the safety data sheet supplier:

Company: Collaborative Aggregates
184 Bulkley Ave, Sausalito, CA 94965
USA
Telephone 978-229-5403
FAX 978-229-5401

1.4 Emergency telephone number

Emergency Phone # 1 800-424-9300

2.0 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

This substance is not classified as hazardous according to the CLP regulation.

2.2 GHS Label element including precautionary statements

Pictogram:



Signal word: **Warning**

Additional Information:

Repeat exposure may cause skin dryness or cracking
Rags, steel wool, or waste soaked with product may spontaneously ignite if improperly handled or discarded.

| | |
|----------------------------|--|
| Precautionary statement(s) | |
| P261 | Avoid breathing dust/ fumes/ gas/ mist/ vapors/ spray. |
| P264 | Wash skin thoroughly after handling. |
| P270 | Do not eat, drink or smoke when using this product. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P301 + P312 | IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. |
| P302 + P352 | IF ON SKIN: Wash with plenty of soap and water. |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P322 | Specific measures (see supplemental first aid instructions on this label). |
| P330 | Rinse mouth. |
| P333 + P313 | If skin irritation or rash occurs: Get medical advice/ attention. |
| P337 + P313 | If eye irritation persists: Get medical advice/ attention. |
| P362 | Take off contaminated clothing and wash before reuse. |
| P404 + P233 | Store in a well-ventilated place. Keep container tightly closed. |
| P405 | Store locked up. |
| P501 | Dispose of contents/ container to an approved waste disposal plant. |

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Results of PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable

3.0 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances:

Chemical Name: Delta S

| Chemical Name | CAS-No | Weight % |
|----------------|--------|----------|
| Trade Secret 1 | ----- | 60-99 |
| Trade Secret 2 | ----- | 0-10 |
| Trade Secret 3 | ----- | 0-10 |
| Trade Secret 4 | ----- | 0-10 |
| Trade Secret 5 | ----- | 0-10 |

4.0 FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician-show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Always seek medical attention.

Inhaled

Supply fresh air; consult doctor in case of complaints.

Skin contact

Wash effected area with plenty of soap and water.
If skin irritation continues, consult a doctor.

Eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Remove contact lenses if worn.
Continue rinsing eyes during transport to hospital.

Swallowed

Rinse out mouth and drink copious amount of milk or water.
Do not induce vomiting; call for medical help immediately.
The product is a laxative in large amounts, but no risk for intoxication.

4.2 Most important symptoms and effects, both acute and delayed

Headache
Gastric or intestinal disorders
Cramp
Dizziness
Breathing difficulty
Coughing
Slight irritant on skin and mucous membranes
Slight irritant effect on eyes

Hazards: None

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5.0 FIREFIGHTING MEASURES**5.1 Extinguishing media****Suitable extinguishing media:**

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

5.2 Special hazards arising from the substance or mixture

Nature of decomposition products is not known.

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary

5.4 Further information

No data available

6.0 ACCIDENTIAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personal to safe areas.
For personal protection see section 8

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge to the environment must be avoided

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13

7.0 HANDLING AND STORAGE

7.1 Precautions for safe handling [extract from parent MSDS]

Avoid contact with skin and eyes. Avoid inhalation of vapors or mist.
For precautions see section 2.2

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)

Uses identified in section 1.2 no other specific uses are stipulated.

8.0 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Compounds with workplace control parameters

| Component | CAS # | Value | Control parameters | Basis |
|----------------|-------|-------------------|--------------------------|-----------------|
| Trade Secret 1 | ----- | No data available | No information available | None Identified |
| Trade Secret 2 | ----- | No data available | No information available | None Identified |
| Trade Secret 3 | ----- | No data available | No information available | None Identified |
| Trade Secret 4 | ----- | No data available | No information available | None Identified |
| Trade Secret 5 | ----- | No data available | No information available | None Identified |

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as ANIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min.

Data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN374, contact the supplies of CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body protection

Always wear long sleeves and long trousers or coveralls; PVC apron.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment to be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

| | |
|-------------------|-------------------------------|
| a) Appearance | Form: liquid Color: yellow |
| b) Odor | Mild |
| c) Odor Threshold | No data available |
| d) pH | No data available |

| | |
|---|-------------------------------------|
| e) Melting point | No data available |
| f) Boiling point | >149°C (300°F) |
| g) Flash point | >260°C (500°F) (Cleveland Open Cup) |
| h) Evaporation rate | No data available |
| i) Flammability (solid, gas) | No data available |
| j) Upper/lower flammability | No data available |
| k) Vapor pressure | No data available |
| l) Relative density | 7.747 lbs/gal |
| m) Water solubility | Negligible <5% |
| n) Partition coefficient: (n-octanol/water) | No data available |
| o) Auto-ignition temperature | No data available |
| p) Decomposition temperature | No data available |
| q) Viscosity | 49.6 cP at 19.5 °C |
| r) Explosive properties | No data available |
| s) Oxidizing properties | No data available |

10. STABILITY AND REACTIVITY

| | |
|---|---|
| 10.1 Reactivity | No data available |
| 10.2 Chemical stability | Stable under recommended storage conditions |
| 10.3 Possibility of hazardous reactions | No data available |
| 10.4 Conditions to avoid | Keep ignition sources away – Do not smoke |
| 10.5 Incompatible materials | Forms shock-sensitive mixtures with certain other materials. Chlorine, zinc and oxidizing agents |
| 10.6 Hazardous decomposition products Other decomposition products In the event of fire: see section 5 | No data available |

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

| | |
|-----------------------|---|
| Acute toxicity | No data available for any component |
| Inhalation | In high concentrations, vapors may be irritating to the respiratory system for the mixture |
| Dermal | Prolonged contact with the mixture may cause dryness of the skin |
| Ingestion | No harmful effects expected from any component in amounts likely to be ingested by accident |
| Eye Contact | Exposure to the mixture may cause temporary eye irritation |

Respiratory or skin sensitization

No data available for any component

Germ cell mutagenicity

No data available for any component

Carcinogenicity

| Component | CAS # | IARC | NTP | OSHA |
|------------------|--------------|---|--|---|
| Trade Secret 1 | ----- | This component is not identified as probable, possible or confirmed carcinogen at levels > or equal to 0.1% by IARC | This component is not identified as a known or anticipated carcinogen at levels > or equal to 0.1 % by NTP | This component is not identified as a carcinogen or potential carcinogen at levels > or equal to 0.1% by OSHA |
| Trade Secret 2 | ----- | This component is not identified as probable, possible or confirmed carcinogen at levels > or equal to 0.1% by IARC | This component is not identified as a known or anticipated carcinogen at levels > or equal to 0.1 % by NTP | This component is not identified as a carcinogen or potential carcinogen at levels > or equal to 0.1% by OSHA |
| Trade Secret 3 | ----- | This component is not identified as probable, possible or confirmed carcinogen at levels > or equal to 0.1% by IARC | This component is not identified as a known or anticipated carcinogen at levels > or equal to 0.1 % by NTP | This component is not identified as a carcinogen or potential carcinogen at levels > or equal to 0.1% by OSHA |
| Trade Secret 4 | ----- | This component is not identified as probable, possible or confirmed carcinogen at levels > or equal to 0.1% by IARC | This component is not identified as a known or anticipated carcinogen at levels > or equal to 0.1 % by NTP | This component is not identified as a carcinogen or potential carcinogen at levels > or equal to 0.1% by OSHA |
| Trade Secret 5 | ----- | This component is not identified as probable, possible or confirmed carcinogen at levels > or equal to 0.1% by IARC | This component is not identified as a known or anticipated carcinogen at levels > or equal to 0.1 % by NTP | This component is not identified as a carcinogen or potential carcinogen at levels > or equal to 0.1% by OSHA |

Reproductive toxicity

No data available for any component

Specific target organ toxicity-single organ

No data available for any component

Specific target organ toxicity-repeated exposure

No data available for any component

Aspiration hazard

No data available for any component

Additional information

None

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish

No data available

Toxicity to daphnia

No data available

| | |
|--|----------------------------------|
| 12.2 Persistence and degradability | Readily biodegradable |
| 12.3 Bioaccumulative potential | Does not accumulate in organisms |
| 12.4 Mobility in soil | No data available |
| 12.5 Results of PBT and vPvB assessment | No data available |
| 12.6 Other adverse effects | Not known |

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

14. TRANSPORT INFORMATION

| | |
|---|----------------|
| 14.1 UN-Number DOT, ADR, IMDG, IAT: | Not Regulated |
| 14.2 UN proper shipping name DOT, ADR, IMDG, IATA: | Not Regulated |
| 14.3 Transportation hazard clas(es) DOT, ADR, IMDG, IATA: | Not Regulated |
| 14.4 Packing group DOT, ADR, IMDG, IAT: | Not Regulated |
| 14.5 Environmental hazards: Marine pollutant: | No |
| 14.6 Special precautions for users: | Not applicable |
| 14.7 Transportation in bulk according to Annex II of MARPOL73/78 and IBC code: | Not applicable |
| UN "Model Regulation": | - |

15. REGULATORY INFORMATION

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components:

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 313/312 Hazards

No SARA Hazards

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

16. OTHER INFORMATION

16.1 Additional information:

NFPA rating

| | |
|-------------------|---|
| Health | 1 |
| Fire Hazard | 1 |
| Reactivity Hazard | 0 |

HMIS Rating

| | |
|-------------------|---|
| Health hazard | 1 |
| Fire Hazard | 1 |
| Reactivity Hazard | 0 |

Statement of Intent: The above information is believed to be correct but does not claim to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and using the product must be viewed with consideration given to safety precautions. Because this is product is research material and not fully characterize the information provided does not represent any guarantee on the properties of the product.