

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name: Delta S® Asphalt Rejuvenator
CAS#: NA – Mixture
Other Means of Identification: NA

1.2 Recommended uses: Asphalt Additive

1.3 Details of the safety data sheet supplier:

Company: Collaborative Aggregates
100 Shoreline HWY STE B280, Mill Valley CA 94941
Telephone: 1-978-229-5403

1.4 Emergency telephone number: 1 978-229-5403

2.0 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Physical Hazard: Not Classified
Health Hazard: Serious Eye Irritation (Category 2A)
Environmental Hazard: Not Classified

2.2 GHS Label element including precautionary statements:

Pictogram:



Signal word: **Warning**

2.3 Hazards and Precautionary Statements

Hazard Statements:
H319 Causes Serious Eye Irritation

Precautionary Statements:
P264 Wash hands thoroughly after handling
P280 Wear eye protection / face protection
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do so. Continue rinsing.

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

2.4 Other hazards which do not results in classification:

Materials soaked with product such as rags. Steel wool, paper, and clothing may spontaneously ignite if improperly stored or discarded.

3.0 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixture:

Component	CAS-No	Weight %
Trade Secret #1	-----	89-99
Trade Secret #2	-----	0-5
Trade Secret #3	-----	0-2
Trade Secret #4	-----	0-2
Trade Secret #5	-----	0-2

The specific chemical identities and percentages of composition are considered a trade secret. Health & safety information of the mixture as a whole and its components are included within the SDS.

4.0 FIRST AID MEASURES

4.1 Description of first aid measures:

Inhaled

Move to fresh air.

Skin contact

Wash off effected area immediately with plenty of soap and water.

Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Swallowed

Not for human consumption. Rinse out mouth with water.

General advice

When symptoms persist or in all cases of doubt seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Contact with eyes causes serious irritation.

Prolonged or excessive contact with skin may result in irritation.

Excessive inhalation of mist may result in respiratory irritation.

Ingestion may cause gastrointestinal disturbance.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5.0 FIREFIGHTING MEASURES

5.1.1 Suitable extinguishing media:

Dry chemical. Carbon dioxide (CO₂). Foam. Water spray. Fog. Sand. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.1.2 Unsuitable extinguishing media: Not applicable.

5.2 Special hazards arising from the substance or mixture:

Risk of ignition. Rags and other combustible materials soaked with this product may heat and spontaneously ignite. Store wiping rags and similar materials in metal cans with tightly fitting lids and/or avoid bunching such materials together in clumps or multiple stacked layers.

5.3 Special protective equipment and precautions for firefighters: Not applicable.

6.0 ACCIDENTIAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use appropriate personnel protective equipment. Material can create slippery conditions.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Contain spilled material and prevent from spreading.

6.3 Methods and materials for containment and cleaning up

Use absorbent pigs, socks, and skimmers to contain. Soak up remaining materials with inert absorbents. Collect and properly dispose of any used absorbents.

7.0 HANDLING AND STORAGE

7.1 Precautions for safe handling

Ensure adequate ventilation. Avoid breathing vapors or mists. Avoid contact with skin, eyes, and clothing.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a well-ventilated place. Rags and other combustible materials soaked with this product may heat and spontaneously ignite. Store used wiping rags and similar materials in metal cans with tightly fitting lids and/or avoid bunching such materials together in clumps or multiple stacked layers.

8.0 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters (e.g. occupational exposure limit values or biological limit values):

Component	CAS #	Value	Control parameters	Basis
Trade Secret #1 (when in form of airborne mist)	-----	15 mg/m ³ (mist)	8-hr TWA	OSHA PEL
		5 mg/m ³ (respirable)	8-hr TWA	OSHA PEL
		10 mg/m ³ (mist)	8-hr TWA	ACGIH TLV

8.2 Appropriate engineering controls:

Ensure adequate ventilation, especially in confined areas. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.

8.3 Individual protection measures, such as personal protective equipment

Eye & Face protection:

Face shield and safety glasses, or Safety Goggles. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH.

Skin & Body Protection:

Oil resistant gloves are recommended. Appropriate body protection should be selected based on activity, possible exposure, and the specific local conditions under which the product is used.

Respiratory protection:

In case of mist, spray, or aerosol exposure in an enclosed area wear suitable personal respiratory protection.

9. 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	No data available
g) Flash point	>298°C (568°F) (Pensky-Martens Closed Cup – ASTM D93)
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) Vapor density	No data available
m) Relative density	7.747 lbs/gal
n) Water solubility	Negligible
o) Partition coefficient: (n-octanol/water)	No data available
p) Auto-ignition temperature	> 344°C (651.2°F)
q) Decomposition temperature	No data available
r) Viscosity	49.6 cP at 19.5 °C

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 on mixture.
Rags and other combustible materials soaked with this product may heat and spontaneously ignite if improperly stored or discarded.

10.4	Conditions to avoid:	No data available
10.5	Incompatible materials:	Strong oxidizing agents. Strong bases, Iodine, Iron and Iron salts.
10.6	Hazardous decomposition products:	Carbon oxides formed under fire conditions.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:	No data available on mixture. Component Trade Secret #2 has an Oral LD50 - 891mg/kg - rat
Skin corrosion/irritation:	Prolonged or excessive contact with skin may result in mild irritation.
Serious eye damage/irritation:	Contact with eyes causes serious irritation.
Respiratory or skin sensitization:	Excessive inhalation of mist may result in respiratory irritation.
Germ cell mutagenicity:	No data available on mixture. No component is identified as having germ cell mutagenicity.
Carcinogenicity:	No component is identified as probable, possible or confirmed carcinogen at levels > or equal to 0.1% by IARC, NTP, or OSHA.
Reproductive toxicity:	No data available on mixture. No component is identified as having reproductive toxicity.
Specific Target Organ Toxicity-Single Exposure:	No data available on mixture. No component is identified as having STOT-single exposure.
Specific Target Organ Toxicity-Repeated Exposure:	No data available on mixture. No component is identified as having STOT-repeated exposure.
Aspiration hazard:	No data available on mixture. No component is identified as having an aspiration hazard.
Other:	Not applicable.

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity: No data available on mixture. Component Data as follows:

Component	Type	Value	Organism
Trade Secret #1	EC10	67,000 mg/l	Microorganisms
Trade Secret #2	LC50	90 mg/l	Fish (Golden orfe)
	EC50	105 mg/l	Daphnia magna (Water flea)

12.2	Persistence and degradability:	Readily biodegradable
12.3	Bioaccumulative potential:	No data available
12.4	Mobility in soil:	No data available
12.6	Other adverse effects:	Not specific known

13. DISPOSAL CONSIDERATIONS

13.1 Product Waste treatment methods

Any waste product, including emptied containers, must be disposed of in accordance with federal, state and local environmental regulations.

13.2 Spill Cleanup Debris / Other

Rags, absorbents, and other combustible materials soaked with this product may heat and spontaneously ignite. To prevent this place in a sealed metal container for disposal or alternatively “dry out” soaked items prior to disposal while avoiding bunching them together in clumps or in multiple layers. All such waste, utilizing either methodology, must then be disposed of in accordance with federal, state and local environmental regulations.

14. TRANSPORT INFORMATION

14.1	US Department of Transportation (US DOT):	Not Regulated. Not a hazardous material.
14.2	IATA:	Not Regulated. Not dangerous goods.
14.3	IMDG:	Not Regulated. Not dangerous goods.

15. REGULATORY INFORMATION

SARA 302 Components:

No components are known to be subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components:

No components are known to be subject to the reporting requirements of SARA Title III, Section 313.

Clean Air Act Hazardous Air Pollutants (HAPs):

No components are known to be listed as hazardous air pollutants under Section 112 of the Clean Air Act.

16. OTHER INFORMATION

16.1 NFPA 704 rating

Health Hazard	2
Flammability Hazard	1
Instability Hazard	0
Special Hazard	-

16.2 Basis:

This SDS has been authored to comply with the OSHA Hazard Communication Standard under 29 CFR 1910.1200 and in accordance with the guidelines under the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS), upon review of the component SDSs, product formulation, and available data.

16.3 Statement of Intent:

The information provided on this SDS is correct to the best of our knowledge, information, and belief at the date of its publication/revision. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, and disposal and is not to be considered as 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 material or in any other process, unless specified in the text.

16.4 Revision Date: 8/11/2020