

APEX 1132

Safety Data Sheet (SDS)

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Identifiers

Product name: APEX 1132, APEX 1132 Shingle, APEX 1132 Shingle Rejuv

Common name: Epoxidized Soybean Oil emulsion

Used in applications that require a plasticizer, an elastomer, a rejuvenator, i.e. adhesives, coatings, and asphalt.

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

Identified uses: asphalt rejuvenation and maintenance

1.3 Details of the supplier of the safety data sheet

Company: SoyLei Innovations
2507 Ridgetop Rd
Ames, Iowa 50014

1.4 Emergency telephone number

Email: information@soylei.com

Cell: (515) 851-2428

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Serious eye damage (Category 1), H318

Skin sensitization (Category 1), H317

For the full text of the H-statements mentioned in this section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Label element	Details
Pictogram	
Signal word	Danger
Hazard statement(s)	H318 Causes serious eye damage. H317 May cause an allergic skin reaction.
Precautionary statement(s) - General	Not Applicable
Precautionary statement(s) - Prevention	P261 Avoid breathing mist or spray. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves and eye/face protection.
Precautionary statement(s) - 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. P310 Immediately call a poison center/doctor. P302+P352 IF ON SKIN: Wash with plenty of water. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse.
Precautionary statement(s) - Storage	Not Applicable
Precautionary statement(s) - Disposal	P501 Dispose of contents/container in accordance with applicable regulations.

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

Wet product may create a slip hazard.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Component	Classification	Concentration
Soybean Oil epoxidized*	None	0–100%
Water	None	0–100%
Ethoxylated Acetylenic Diols*	Eye Damage/Eye Irritation Category 1	0–10%
Biobased emulsifiers*	None	0–10%
4,4-dimethyloxazolidine (biocide)*	None	0–0.3%

*The exact percentage (concentration) of composition has been withheld as a trade secret.

For the full text of the H-statements mentioned in this section, see Section 16.

4. 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.

If inhaled If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult

a physician.

In case of skin contact Wash off with soap and plenty of water. Consult a physician.

In case of eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing and immediately call a poison center or physician.

If swallowed Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or mixture

No data available

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment, and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. For personal protection see Section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

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

6.4 Reference to other sections

For disposal see Section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. For precautions see Section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container refrigerated, tightly closed, in a dry and well-ventilated place. Heat sensitive. Do not allow to freeze.

7.3 Specific end use(s)

Apart from the uses mentioned in Section 1.2, no other specific uses are stipulated.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Components with workplace control parameters

Not Applicable

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 workday.

8.3 Personal protective equipment

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

Skin protection Handle with gloves.

Gloves must be inspected prior to use. Use proper glove removal technique (without touching the 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.

Control of environmental exposure Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Property	Value
Appearance / form	Liquid, white
Color	Milky, beige
Odor	No odor
Odor threshold	No data available
pH	Neutral
Melting point / freezing point	0°C
Initial boiling point and boiling range	100°C
Flash point	315°C, 599°F
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper / lower explosive limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	1.04 g/cm ³ at 25°C (77°F)
Water solubility	Completely soluble in water
Partition coefficient	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	0–200 cP
Oxidizing properties	No data available



9.2 Other safety information

No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical Stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Product will not undergo hazardous polymerization.

10.4 Conditions to avoid

Excess heat

10.5 Incompatible materials

Strong oxidizing agents, strong mineral acids

10.6 Hazardous decomposition products

Carbon monoxide and carbon dioxide may be given off during combustion or oxidation.

Other decomposition products: No data available.

In the event of fire: see Section 5.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity No data available

Inhalation Labored breathing and mild irritation of the lungs may occur

Ingestion Mild irritation of the mouth, tongue, esophagus, and stomach may occur

Skin corrosion / irritation Non-sensitizing to skin

Serious eye damage / eye irritation Mild eye irritation may occur

Respiratory or skin sensitization No data available

Germ cell mutagenicity No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity No data available

Specific target organ toxicity - single exposure No data available

Specific target organ toxicity - repeated exposure No data available

Aspiration hazard No data available

Additional information RTECS: Not available. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

24-hr LC₅₀ (brine shrimp): 240 mg/L

Oral LD₅₀ (rat): 24 g/kg, practically non-toxic to rats

Dermal LD₅₀ (rabbit): 20 g/kg, practically non-toxic to rabbits

Inhalation LC₅₀ (rat): No deaths after 8 hours of concentrated vapors

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT / vPvB assessment not available as chemical safety assessment not required or not conducted.

12.6 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging Dispose of as unused product.

14. TRANSPORT INFORMATION

Mode	Classification
DOT (US)	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods
TDG Canada	Not regulated / Not dangerous goods

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 311 / 312 Hazards Acute Health Hazard

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

California Prop. 65 Components This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

H317: May cause an allergic skin reaction. H318: Causes serious eye damage.