



1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Identifiers

Product name: **SIP 1111-1, SIP Rejuv, SIP₁₁₁₁ Rejuv**

Common name: Epoxidized Soybean Oil, ESO, ESBO, Epoxy Soya, PlastiSoy® 7.0, PlastiSoy® Epoxidized H-Oleic Oil

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: plasticizer and scavenger for HCL in PVC

1.3 1.3 Details of the supplier of the safety data sheet

Company: SoyLei Innovations
5331 Harvest Road, Ames,
Iowa 50014

1.4 Emergency telephone number

Email: information@soylei.com
Cell: 515-520-7600

2. Hazards Identification

2.1 Classification of the substance or mixture

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

Skin sensitization (Category 1), H317

For the full text of the H-Statements mentioned in this Section, see Section 16.GHS Label elements, including precautionary statements.

2.2 GHS Label elements, including precautionary statements.

Pictogram: Not Applicable

Signal word: No signal word

Hazard statement(s)

No known significant critical hazards

Precautionary statement(s)

General: Not Applicable

Prevention: Not Applicable

Response: Not Applicable

Storage: Not Applicable

Disposal: Not Applicable

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS 56.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Component	Classification	Concentration
Soybean Oil, epoxidized	None	100%

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

Flush eyes with water as a precaution.

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

6.5 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. Light sensitive. Heat sensitive.

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 and 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.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate, use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance Form:	Viscous liquid
Color:	Slightly Yellow
Odor:	Mild vegetable oil odor
Odor Threshold:	No data available
pH:	No data available

Melting point/freezing point:	Not available/0-20°C
Initial boiling point and boiling range:	No data available
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 ethanol and acetone; insoluble in water
Partition coefficient:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available
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:

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 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/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

DOT (US)	Not dangerous goods
IMDG	Not dangerous goods
IATA	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 State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Eye Irrit.	Eye irritation
H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H361	Suspected of damaging fertility or the unborn child.
H401	Toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.
Repr.	Reproductive toxicity
Skin Sens.	Skin sensitization
HMIS Rating Health hazard:	1
Chronic Health Hazard:	*
Flammability:	1
Physical Hazard	0
NFPA Rating Health hazard:	1
Fire Hazard:	1
Reactivity Hazard:	0