



EPOXY SOYA OIL

Version 1.3

Revision Date 01/24/2024

SECTION 1. IDENTIFICATION

Product identifier

Trade name : **EPOXY SOYA OIL**

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

Use of the Sub-
stance/Mixture : Manufacture of plastics products
Polymer additive
Stabilizer for PVC

Details of the supplier of the safety data sheet

Company : Baerlocher Production USA LLC
5890 Highland Ridge Drive
Cincinnati, OH 45232
Telephone : Day 330-602-1528 or 330-602-1531
: Night 513-207-1620 or 513-604-2327
E-mail address : Hotline.PS@baerlocher.com
Responsible/issuing person : Product Safety Department

Emergency telephone number (0 - 24 h)

Tel.: 800-424-9300 USA or 703-527-3887

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance
Chemical nature : Epoxidized soya oil
CAS No. 8013-07-8

SECTION 4. FIRST AID MEASURES

General advice : Get medical advice/ attention if you feel unwell.
If inhaled : Move to fresh air.
Get medical advice/ attention if you feel unwell.
In case of skin contact : Wash off with soap and water.
Remove contaminated clothing and shoes.
Wash contaminated clothing before reuse.
Call a physician if symptoms occur.
In case of eye contact : Rinse thoroughly with plenty of water for at least 15 minutes



EPOXY SOYA OIL

Version 1.3

Revision Date 01/24/2024

If swallowed	:	and consult a physician. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Clean mouth with water and drink afterwards plenty of water. Obtain medical attention.
Most important symptoms and effects, both acute and delayed	:	No information available.
Notes to physician	:	Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Foam Dry powder Carbon dioxide (CO ₂) water spray,
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during fire-fighting	:	Smoke and fumes, toxic. Fire may cause evolution of: Carbon monoxide, Carbon dioxide (CO ₂) acrolein, toxic
Further information	:	Cool closed containers exposed to fire with water spray. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Avoid contact with skin and eyes. Ensure adequate ventilation.
Environmental precautions	:	Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.
Methods and materials for containment and cleaning up	:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling	:	Take precautionary measures against static discharges. Provide adequate ventilation.
Conditions for safe storage	:	Keep container tightly closed. Minimum storage temperature: 15°C
Technical measures/Precautions	:	Handle in accordance with good industrial hygiene and safety practice.



EPOXY SOYA OIL

Version 1.3

Revision Date 01/24/2024

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Engineering measures : Local exhaust

Personal protective equipment

Respiratory protection : In case of inadequate ventilation wear respiratory protection.
Protective mask with A2 Filter.

Hand protection

Remarks : Protective gloves complying with EN 374. Nitrile rubber Time of penetration: > 480 min The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case.

Eye protection : Safety glasses with side-shields conforming to EN166

Skin and body protection : Long sleeved clothing

Protective measures : antistatic shoes

Hygiene measures : Avoid contact with eyes.

Wash hands before breaks and at the end of workday.

Use protective skin cream before handling the product.

Remove and wash contaminated clothing before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Color : light yellow

Odor : No data available

Odor Threshold : No data available

pH : No data available

Melting point/freezing point : -5.15 - 1.15 °C
Method: OECD Test Guideline 102

Boiling point/boiling range : 200.35 - 201.25 °C
Method: OECD Test Guideline 103

Flash point : 231 °C (1,013 hPa)

Evaporation rate : No data available

Flammability (liquids) : Combustible Liquid

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapor pressure : 0.84 hPa (25 °C)
Method: OECD Test Guideline 104

Relative vapor density : No data available



EPOXY SOYA OIL

Version 1.3

Revision Date 01/24/2024

Density	:	1.01 g/cm ³ (20 °C) The value is calculated
Solubility(ies)	:	
Water solubility	:	<= 0.00136 g/l (20 °C) Method: OECD Test Guideline 105
Partition coefficient: n-octanol/water	:	log Pow: >= 6.2 (20 °C) Method: OECD Test Guideline 117
Auto-ignition temperature	:	No data available
Decomposition temperature	:	> 200 °C
Viscosity	:	
Viscosity, dynamic	:	600 mPa.s (20 °C) Method: OECD Test Guideline 114
Viscosity, kinematic	:	No data available
Refractive index	:	No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No hazards to be specially mentioned.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	None reasonably foreseeable.
Conditions to avoid	:	To avoid thermal decomposition, do not overheat.
Incompatible materials	:	No data available
Hazardous decomposition products	:	Carbon dioxide (CO ₂) Carbon monoxide acrolein, toxic

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401 GLP: no Remarks: Based on available data, the classification criteria are not met.
Acute dermal toxicity	:	LD50 (Rabbit): > 20,000 mg/kg Method: OECD Test Guideline 402 GLP: no Remarks: Based on available data, the classification criteria are not met.



EPOXY SOYA OIL

Version 1.3

Revision Date 01/24/2024

Skin corrosion/irritation

Product:

Species: Rabbit
Exposure time: 24 h
Method: standardised international/national methodology
Result: Mild skin irritation
GLP: no
Remarks: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation

Product:

Species: Rabbit
Result: Mild eye irritation
Method: OECD Test Guideline 405
GLP: no
Remarks: Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation

Product:

Test Type: Maximisation Test
Species: Guinea pig
Method: OECD Test Guideline 406
Result: Does not cause skin sensitisation.
GLP: no
Remarks: Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Product:

Genotoxicity in vitro : Test Type: Mutagenicity (Salmonella typhimurium - reverse mutation assay)
Species: Bacteria
Method: OECD Test Guideline 471
Result: negative
GLP: yes

: Test Type: In vitro gene mutation study in mammalian cells
Species: mouse lymphoma cells
Method: OECD Test Guideline 476
Result: negative
GLP: yes

: Test Type: Mutagenicity (in vitro mammalian cytogenetic test)
Species: Human lymphocytes
Method: OECD Test Guideline 473
Result: negative
GLP: yes
Remarks: Based on available data, the classification criteria are not met.



EPOXY SOYA OIL

Version 1.3

Revision Date 01/24/2024

Carcinogenicity

Product:

Species: Rat

Application Route: Oral

Method: OECD Test Guideline 453

GLP: no

Remarks: Based on available data, the classification criteria are not met.

Remarks: This product contains no known or suspected carcinogens listed by IARC, NTP or OSHA at or above reportable quantities.

Reproductive toxicity

Product:

- Effects on fertility : Test Type: One-generation reproduction toxicity test
Species: Rat
Application Route: Oral

Method: OECD Test Guideline 415
GLP: yes
Remarks: Based on available data, the classification criteria are not met.
- Effects on foetal development : Species: Rat
Application Route: Oral
Method: OECD Test Guideline 414
GLP: yes
Remarks: Based on available data, the classification criteria are not met.

STOT - single exposure

Product:

Remarks: Based on available data, the classification criteria are not met.

Repeated dose toxicity

Product:

Species: Rat

Application Route: Oral

Method: OECD Test Guideline 453

GLP: no

Remarks: Based on available data, the classification criteria are not met.



EPOXY SOYA OIL

Version 1.3

Revision Date 01/24/2024

Aspiration toxicity

Product:

Based on available data, the classification criteria are not met.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

- Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 900 mg/l
Exposure time: 48 h
Test Type: static test
Method: DIN 38412
- LC50 (Leuciscus idus (Golden orfe)): ca. 450 mg/l
Exposure time: 96 h
Method: Expert judgement
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 24 h
Test Type: static test
Method: OECD Test Guideline 202
- EC50 (Daphnia magna (Water flea)): > 50 mg/l
Exposure time: 48 h
Method: Expert judgement
- Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 8 mg/l
Exposure time: 72 h
Test Type: static test
- Toxicity to fish (Chronic toxicity) : Remarks: study scientifically unjustified
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: study scientifically unjustified

Ecotoxicology Assessment

- Acute aquatic toxicity : Based on available data, the classification criteria are not met.
- Chronic aquatic toxicity : Based on available data, the classification criteria are not met.

Persistence and degradability

Product:

- Biodegradability : Test Type: Ready biodegradability
Result: Readily biodegradable.
Biodegradation: 92 %
Exposure time: 28 d



EPOXY SOYA OIL

Version 1.3

Revision Date 01/24/2024

Method: OECD Test Guideline 301B

Bioaccumulative potential

Product:

Bioaccumulation : Bioconcentration factor (BCF): 375
Remarks: Bioaccumulation is unlikely.

Mobility in soil

Product:

Mobility : Remarks: No data available

Other adverse effects

Product:

Results of PBT and vPvB assessment : Based on available data, the classification criteria are not met.
Endocrine disrupting potential : No information available.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Consult an expert on the disposal of recovered material. Ensure disposal in compliance with government requirements and ensure conformity to local disposal regulations. Dispose in accordance with local, state and federal regulations.
Contaminated packaging : Empty containers must be handled with care due to product residue.

SECTION 14. TRANSPORT INFORMATION

National Regulations

DOT

Not regulated as a dangerous good

International Regulations

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.



EPOXY SOYA OIL

Version 1.3

Revision Date 01/24/2024

SECTION 15. REGULATORY INFORMATION

SARA 313 : This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:

Components	CAS-No.	Wt.
not applicable	Not Assigned	

The components of this product are reported in the following inventories:

EINECS	listed
TSCA	listed
DSL	listed
CHINA	listed
ENCS	listed
ECL	listed
PICCS	listed
AICS	listed
REACH	listed

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Admin-



EPOXY SOYA OIL

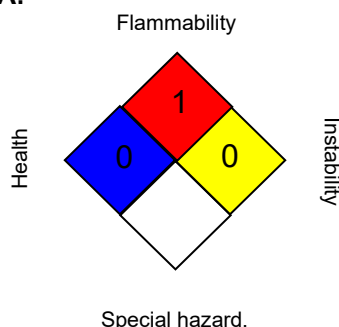
Version 1.3

Revision Date 01/24/2024

istration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

NFPA:



HMIS III:

HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Revision Date : 01/24/2024

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.

US / EN