

1 Identification

Product identifier

Product name: Soybean oil

Stock number: J61399

CAS Number:

8001-22-7

EC number:

232-274-4

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

Identified use: SU24 Scientific research and development

Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Alfa Aesar

Thermo Fisher Scientific Chemicals, Inc.

30 Bond Street

Ward Hill, MA 01835-8099

Tel: 800-343-0660

Fax: 800-322-4757

Email: tech@alfa.com

www.alfa.com

Information Department: Health, Safety and Environmental Department

Emergency telephone number:

During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.

2 Hazard(s) identification

Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)

The substance is not classified as hazardous according to 29 CFR 1910 (OSHA GHS).

Hazards not otherwise classified No information known.

Label elements

GHS label elements Not applicable

Hazard pictograms Not applicable

Signal word Not applicable

Hazard statements Not applicable

WHMIS classification Not controlled

Classification system

HMIS ratings (scale 0-4)

(Hazardous Materials Identification System)

HEALTH 0 Health (acute effects) = 0

FIRE 1 Flammability = 1

REACTIVITY 0 Physical Hazard = 0

Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

3 Composition/information on ingredients

Chemical characterization: Substances

CAS# Description:

8001-22-7 Soybean oil

Concentration: ≤100%

Identification number(s):

EC number: 232-274-4

4 First-aid measures

Description of first aid measures

After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm.

Seek immediate medical advice.

After skin contact

Immediately wash with water and soap and rinse thoroughly.

Seek immediate medical advice.

After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing Seek medical treatment.

Information for doctor

Most important symptoms and effects, both acute and delayed No further relevant information available.

Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

Extinguishing media

Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards arising from the substance or mixture

If this product is involved in a fire, the following can be released:

Carbon monoxide and carbon dioxide

Advice for firefighters

Protective equipment:

Wear self-contained respirator.

Wear fully protective impervious suit.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Environmental precautions: Do not allow product to reach sewage system or any water course.

Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Product name: Soybean oil

Prevention of secondary hazards: No special measures required.
Reference to other sections
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

(Contd. of page 1)

7 Handling and storage

Handling
Precautions for safe handling
Keep container tightly sealed.
Store in cool, dry place in tightly closed containers.
Information about protection against explosions and fires: No information known.
Conditions for safe storage, including any incompatibilities
Storage
Requirements to be met by storerooms and receptacles: No special requirements.
Information about storage in one common storage facility: Store away from oxidizing agents.
Further information about storage conditions:
Keep container tightly sealed.
Store in cool, dry conditions in well sealed containers.
Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

Additional information about design of technical systems:
Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.
Control parameters
Components with limit values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
Additional information: No data
Exposure controls
Personal protective equipment
General protective and hygienic measures
The usual precautionary measures for handling chemicals should be followed.
Keep away from foodstuffs, beverages and feed.
Remove all soiled and contaminated clothing immediately.
Wash hands before breaks and at the end of work.
Maintain an ergonomically appropriate working environment.
Breathing equipment: Use suitable respirator when high concentrations are present.
Recommended filter device for short term use:
Use a respirator with multi-purpose combination (US) or type ABEK (EN 14387) as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards such as NIOSH (USA) or CEN (EU).
Protection of hands:
Impervious gloves
Check protective gloves prior to each use for their proper condition.
The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.
Eye protection: Safety glasses
Body protection: Protective work clothing.

9 Physical and chemical properties

Information on basic physical and chemical properties
General Information
Appearance:
Form: Oily liquid
Odor: Not determined.
Odor threshold: Not determined.
pH-value: Not determined.
Change in condition
Melting point/Melting range: Not determined
Boiling point/Boiling range: Not determined
Sublimation temperature / start: Not determined
Flash point: > 113 °C (> 235 °F)
Flammability (solid, gaseous) Not determined.
Ignition temperature: Not determined
Decomposition temperature: Not determined
Auto igniting: Not determined.
Danger of explosion: Not determined.
Explosion limits:
Lower: Not determined
Upper: Not determined
Vapor pressure: Not determined
Density at 20 °C (68 °F): 0.92 g/cm³ (7.677 lbs/gal)
Relative density Not determined.
Vapor density Not determined.
Evaporation rate Not determined.
Solubility in / Miscibility with
Water: Not determined
Partition coefficient (n-octanol/water): Not determined.
Viscosity:
dynamic: Not determined.
kinematic: Not determined.
Other information No further relevant information available.

10 Stability and reactivity

Reactivity No information known.
Chemical stability Stable under recommended storage conditions.
Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications.

(Contd. on page 3)
USA

Product name: Soybean oil																																	
<div><div>Possibility of hazardous reactions</div><div>Reacts with strong oxidizing agents</div><div>Conditions to avoid</div><div>No further relevant information available.</div><div>Incompatible materials:</div><div>Oxidizing agents</div><div>Hazardous decomposition products:</div><div>Carbon monoxide and carbon dioxide</div></div>	(Contd. of page 2)																																
11 Toxicological information <div><div>Information on toxicological effects</div><div>Acute toxicity:</div><div>The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance.</div><div>LD/LC50 values that are relevant for classification:</div><div>No data</div><div>Skin irritation or corrosion:</div><div>May cause irritation</div><div>Eye irritation or corrosion:</div><div>May cause irritation</div><div>Sensitization:</div><div>No sensitizing effects known.</div><div>Germ cell mutagenicity:</div><div>The Registry of Toxic Effects of Chemical Substances (RTECS) contains mutation data for this substance.</div><div>Carcinogenicity:</div><div>No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.</div><div>Reproductive toxicity:</div><div>The Registry of Toxic Effects of Chemical Substances (RTECS) contains reproductive data for this substance.</div><div>Specific target organ system toxicity - repeated exposure:</div><div>No effects known.</div><div>Specific target organ system toxicity - single exposure:</div><div>No effects known.</div><div>Aspiration hazard:</div><div>No effects known.</div><div>Subacute to chronic toxicity:</div><div>The Registry of Toxic Effects of Chemical Substances (RTECS) contains multiple dose toxicity data for this substance.</div><div>Additional toxicological information:</div><div>To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.</div><div>Carcinogenic categories</div><div>OSHA-Ca (Occupational Safety & Health Administration)</div><div>Substance is not listed.</div></div>																																	
12 Ecological information <div><div>Toxicity</div><div>Aquatic toxicity:</div><div>No further relevant information available.</div><div>Persistence and degradability</div><div>No further relevant information available.</div><div>Bioaccumulative potential</div><div>No further relevant information available.</div><div>Mobility in soil</div><div>No further relevant information available.</div><div>Additional ecological information:</div><div>General notes:</div><div>Do not allow undiluted product or large quantities to reach ground water, water course or sewage system.</div><div>Avoid transfer into the environment.</div><div>Results of PBT and vPvB assessment</div><div>PBT:</div><div>Not applicable.</div><div>vPvB:</div><div>Not applicable.</div><div>Other adverse effects</div><div>No further relevant information available.</div></div>																																	
13 Disposal considerations <div><div>Waste treatment methods</div><div>Recommendation</div><div>Consult state, local or national regulations to ensure proper disposal.</div><div>Uncleaned packagings:</div><div>Recommendation:</div><div>Disposal must be made according to official regulations.</div></div>																																	
14 Transport information <table><tr><td>UN-Number</td><td></td></tr><tr><td>DOT, ADN, IMDG, IATA</td><td>Not applicable</td></tr><tr><td>UN proper shipping name</td><td></td></tr><tr><td>DOT, ADR, ADN, IMDG, IATA</td><td>Not applicable</td></tr><tr><td>Transport hazard class(es)</td><td></td></tr><tr><td>DOT, ADR, ADN, IMDG, IATA</td><td></td></tr><tr><td>Class</td><td>Not applicable</td></tr><tr><td>Packing group</td><td></td></tr><tr><td>DOT, ADR, IMDG, IATA</td><td>Not applicable</td></tr><tr><td>Environmental hazards:</td><td>Not applicable.</td></tr><tr><td>Special precautions for user</td><td>Not applicable.</td></tr><tr><td>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</td><td>Not applicable.</td></tr><tr><td>Transport/Additional information:</td><td></td></tr><tr><td>DOT</td><td></td></tr><tr><td>Marine Pollutant (DOT):</td><td>No</td></tr><tr><td>UN "Model Regulation":</td><td>-</td></tr></table>	UN-Number		DOT, ADN, IMDG, IATA	Not applicable	UN proper shipping name		DOT, ADR, ADN, IMDG, IATA	Not applicable	Transport hazard class(es)		DOT, ADR, ADN, IMDG, IATA		Class	Not applicable	Packing group		DOT, ADR, IMDG, IATA	Not applicable	Environmental hazards:	Not applicable.	Special precautions for user	Not applicable.	Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.	Transport/Additional information:		DOT		Marine Pollutant (DOT):	No	UN "Model Regulation":	-	
UN-Number																																	
DOT, ADN, IMDG, IATA	Not applicable																																
UN proper shipping name																																	
DOT, ADR, ADN, IMDG, IATA	Not applicable																																
Transport hazard class(es)																																	
DOT, ADR, ADN, IMDG, IATA																																	
Class	Not applicable																																
Packing group																																	
DOT, ADR, IMDG, IATA	Not applicable																																
Environmental hazards:	Not applicable.																																
Special precautions for user	Not applicable.																																
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.																																
Transport/Additional information:																																	
DOT																																	
Marine Pollutant (DOT):	No																																
UN "Model Regulation":	-																																
15 Regulatory information <div><div>Safety, health and environmental regulations/legislation specific for the substance or mixture</div><div>GHS label elements</div><div>Not applicable</div><div>Hazard pictograms</div><div>Not applicable</div><div>Signal word</div><div>Not applicable</div><div>Hazard statements</div><div>Not applicable</div><div>National regulations</div><div>All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory.</div><div>All components of this product are listed on the Canadian Domestic Substances List (DSL).</div><div>SARA Section 313 (specific toxic chemical listings)</div><div>Substance is not listed.</div><div>California Proposition 65</div><div>Prop 65 - Chemicals known to cause cancer</div><div>Substance is not listed.</div><div>Prop 65 - Developmental toxicity</div><div>Substance is not listed.</div><div>Prop 65 - Developmental toxicity, female</div><div>Substance is not listed.</div><div>Prop 65 - Developmental toxicity, male</div><div>Substance is not listed.</div><div>Information about limitation of use:</div><div>For use only by technically qualified individuals.</div><div>Other regulations, limitations and prohibitive regulations</div><div>Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006.</div><div>Substance is not listed.</div><div>The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed.</div><div>Substance is not listed.</div></div>	(Contd. on page 4) USA																																

Product name: Soybean oil

Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed.
Chemical safety assessment: A Chemical Safety Assessment has not been carried out. (Contd. of page 3)

16 Other information
Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Department issuing SDS: Global Marketing Department
Date of preparation / last revision 02/15/2017 / -

Abbreviations and acronyms:
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
DOT: US Department of Transportation
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
HMIS: Hazardous Materials Identification System (USA)
WHMIS: Workplace Hazardous Materials Information System (Canada)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
vPvB: very Persistent and very Bioaccumulative
ACGIH: American Conference of Governmental Industrial Hygienists (USA)
OSHA: Occupational Safety and Health Administration (USA)
NTP: National Toxicology Program (USA)
IARC: International Agency for Research on Cancer
EPA: Environmental Protection Agency (USA)

USA