



Page 1/4 Printing date 06/21/2017 Revision date 06/20/2017 Version 1

1 Identification
Product identifier Product name: Safflower oil, Carthamus tinctorius
Stock number: J63982 CAS Number: 8001-23-8 EC number: 232-276-5
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
www.ana.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 Signa human kits 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 I Health (acute effects) = 1 FIRE I Flammability = 1 REACTIVIT Physical Hazard = 1
Other hazards Results of PBT and vPvB assessment PBT: Not applicable.
vPvB: Not applicable.
3 Composition/information on ingredients
Chemical characterization: Substances CAS# Description: 8001-23-8 Safflower oil Concentration: ≤100% Identification number(s):
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CAS# Description: 8001-23-8 Safflower oil Concentration: ≤100% Identification number(s): EC number: 232-276-5 4 First-aid measures
CAS# Description: 8001-23-8 Safflower oil Concentration: <100% Identification number(s): EC number: 232-276-5 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.
CAS# Description: 8001-23-8 Safflower oil Concentration: ≤100% Identification number(s): EC number: 232-276-5 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.
CAS# Description: 8001-23-8 Safflower oil Concentration: <100% Identification number(s): EC number: 232-276-5
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CASE Description: 8001-123-8 Safflower oil Concentration: \$100% Identification number(s): EC number: 232-276-5
CAS# Description: 8001-23-8 Safflower oil Concentration: \$100% Identification number(s): EC number: 232-276-5 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 skin contact Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice. After synallowing. Seek medical treatment. Information for doctor Most important symptoms and effects, both acute and delayed No further relevant information available. Information 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.
CAS# Description: 8001-23-8 Safflower oil Concentration: s100% Her instantion Description of first aid measures Description of first aid measures Seek immediate medical advice. After inhalation Seek immediate medical advice. After skin contact Immediate medical advice. After skin so opened eye for several minutes under running water. Then consult a doctor. After sev contact finise opened eye for several minutes under running water. Then consult a doctor. After seve contact finise opened eye for several minutes under running water. Then consult a doctor. After seve contact finise opened eye for several minutes under running water. Then consult a doctor. After seve contact finise opened eye for several minutes under running water. Then consult a doctor. After seve contact finise opened eye for several minutes under running water. Then consult a doctor. After seve contact finise opened eye for several minutes under running water. Then consult a doctor. After sevel contact finise opened eye for several minutes under running water. Then consult a 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. Strize-fightin
CAS# Description: 8001-23-5 Safflower oil Concentration: 5100% Identification number(s): EC number: 232-276-5
CASE Description: Book 123 Sufflower oil S001:23-23 Sufflower oil Concentration: \$100% Identification number(s): EC number: 23:276-5 4 First-aid measures Description of first aid measures Description of first aid measures After skin contact Numplification number(s): EC number: 23:276-5 4 First-aid measures Description of first aid measures After skin contact Immediate medical advice. After skin dialwing Seek medical treatment. Information for doctor Most important symptoms and effects, both acute and delayed No further relevant information available. Information of a any immediate medical attention and special treatment needed No further relevant information available. Indication of any immediate medical attention and special treatment needed No further relevant information available. Information available. Stribule 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 mature If this product is involved in a
CAS# Description: 8001-23-23 Safflower oil Concentration: 5100% Identification number(s): EC number: 232-276-5 4 First-aid measures After sin required, provide artificial respiration. Keep patient warm. Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. After skin contact Immediate medical advice. After skin mediate medical advice. Stringuishing media Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special harards arising from the substance or mixture If this product is involved in a fire, the following can be released: 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 self-contained respirator. Wear fully protective impervious suit. 6 Accidental release measures Personal precautions. Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleased to the environment without proper governmental permits.

Product name: Safflower oil, Carthamus tinctorius

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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. Protective Action Criteria for Chemicals PAC-1: Substance is not listed. PAC-2: Substance is not listed. PAC-3: Substance is not listed.

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

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:

Maintain an eigenoment: Use suitable respirator when high concentrations are present. Use suitable respiratory protective device in case of insufficient ventilation. 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 (FL) CEN (EU). Protection of hands:

Impervious gloves Check protection of suitable 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. **Penetration time of glove material (in minutes)** Not determined **Eye protection:** Safety glasses with side shields / NIOSH (US) or EN 166(EU) **Body protection:** Protective work clothing.

9 Physical and chemical properties

9 Physical and chemical properties	y Physical and chemical properties			
Information on basic physical and che General Information Appearance: Form: Odor: Odor: Odor threshold:	emical properties Oily liquid Not determined Not determined.			
pH-value:	Not determined.			
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined Not determined Not determined			
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	>113 °C (>235 °F) Not determined. Not determined Not determined Not determined.			
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water): Viscosity: dynamic: kinematic:	Not determined. Not determined Not determined 0.921 g/cm ³ (7.686 lbs/gal) Not determined. Not determined. Not determined. Not determined. Not determined. Not determined. Not determined. Not determined. Not determined.			
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(Contd. efp Other information No further relevant information available. 10 Stability and reactivity Reactivity to information known. Context information known. Context information known. Conditions to work for humber relevant information available. Decompositions. Possibility of hazardous reactions Reacts with storig oxiding agents. Context information Conditions to work for humber relevant information available. Interview information 11 Toxicological information Interview information Reactivity to information Context information Control to the relevant for classification: No data: Reactivity information Stability of hospity of the relevant for classification: No data: Reactivity information Control control information Control control information Reactivity information Control control information or corrosonic information available information information information information available information information Reactivity information Specific target organ system toxicity - respected exposure: No effects known. Reactivity information Specific target organ system toxicity - respected exposure: No effects known. Reactivity information Specific target organ system toxicity - respected exposure: No effects k	Product name: Safflower oil, Carthamus tinctorius		
0 Stability and reactivity Reactivity No information known. 0 Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided. Decomposition without cocur if used and stored according to specifications. 0 Conditions to ovaid Mo Little relevant information available. Thermal decomposition products. Carbon monoxide and carbon dioxide 11 Toxicological information Information on correction. Way cause influints. Notional Stability of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for components in this product. System intration or correction. Way cause influints. No data System intration or correction. Way cause influints. No data System intration or correction. Way cause influints. No data System intration or correction. Way cause influints. No data System intration or correction. Way cause influints. No data System intration or correction. No cause intration. Gercinogenicity. No classification data on carcinogenic properties of his material is available from the EPA, IARC, NTP, OSHA or ACGIH. Specific target organ system toxicity - single exposure: No affects known. Specific target organ system toxicity - single exposure: No affects known. Specific target organ system toxicity - single exposure: No affects known. Specific target organ system toxicity - single exposure: No affects know			(Contd. of page
Reactive No information known. Thermical substring Stable under secondmended storage conditions: Thermical decomposition in conditions to be avoided: Decomposition without occur if used and stored according to specifications: Conditions to avoid No further resonantended storage conditions: Conditions to avoid No further resonantended and available: Toxicological information Information on toxicological effects Acute boxicity of the storage conditions: Acute boxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for components in this product. Skih infration or corresion: May cause inflation Stable storage conditions: Report Correstor: Neg cause inflation Stable storage conditions: Report Correstor: Neg cause inflation Stable storage conditions: Specific target organ system toxicity: storage capsure: No affects known. Specific target organ system toxicity: repeated exposure: No affects known. Specific target organ system toxicity: storage capsure: No affects known. Specific target organ system toxicity: storage capsure: No affects known. Specific target organ system toxicity: storaget capsure: No affects known. Specific target organ system toxicity: storaget capsure: No affects known. Specific target organ system toxicity: storaget capsure: No affects known. Specific target organ system toxicity: storaget capsuset. Addition toxicological	Other information No further relevant inform	rmation available.	
If Toxicological information Information on toxicological effects Acute toxicity: The Registry in Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for components in this product. LDL CSP values that are relevant for classification: No data Eye initiation or corrosoin. Way cause initiation Sensitization: No sensitizing effects known. Sensitization: No sensitizing effects known. Specific target organ system toxicity - repeated exposure: No affects known. Specific target organ system toxicity - single orgosore: No affects known. Specific target organ system toxicity - single orgosore: No affects known. Additional toxicological information: Kapitation hazard: No diffects known. Zeological information: Toxicity Additional toxicological information: Toxicity Additional toxicological information: Toxicity Advastic toxicity: No further relevant information available. Bocity target organ system toxicity and available. Advastic toxicity: No further relevant information available. Bool allow unditided product or large quantities to reach ground water, water course or sewage system. Advastic toxicity: No further relevant information available. Do not allow undiluted product or large quantities to reac	Reactivity No information known. Chemical stability Stable under recommended storage condition. Thermal decomposition / conditions to be avoided: Decompos Possibility of hazardous reactions Reacts with strong oxidizing Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents	osition will not occur if used and stored according to specifications. g agents	
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Specific target organ system toxicity - single exposure: No effects known. Appiration hazard: No effects known. Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. 12 Ecological information Toxicity Aquatic toxicity; No further relevant information available. Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Dioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Do not allow material to be released to the environment without proper governmental permits. Do not allow material to be released to the environment without proper governmental permits. Do not allow material to be released to the environment. Results of PET and VPX assessment VPXB: Not applicable Other adverse effects No further relevant information available. 13 Disposal considerations Waste treatment methods Recommendation: Chsposal must be made according to official regulations. 14 Transport information UN-roper shipping name Dof, ADN, MDG, IATA Not		la affaata known	
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UN "Model Regulation": Not applicable			
LEX Ishar biomonic war showshis	GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable National regulations All components of this product are listed in the U.S. Environmenta All components of this product are listed on the Canadian Domest	ntal Protection Agency Toxic Substances Control Act Chemical substance Inver stic Substances List (DSL).	ntory.

All components of this product are listed on the Canadian Domestic Substances List (DSL). SARA Section 313 (specific toxic chemical listings) Substance is not listed.

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California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Information about limitation of use: For use only by technically qualified individuals. Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. 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. Substance is not listed.

Substance is not listed. 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.

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. 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/Revision: Print date, revision date and version number are in the header of each page. 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) MDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Substances CAS: Chemical Abstracts Service (Division of the American Chemical Substances LSO: Lethal concentration, 50 percent PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern PVW: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) MTP: National Toxicology Program (USA) MTP: National Toxicology Program (USA) MTP: Marci and Substances (USA)

USA