

**Avicor™ 390**

Version	Revision Date:	SDS Number:	Date of last issue: -
1.1	09-25-2024	000000033966	Date of first issue: 04-30-2019

**SECTION 1. IDENTIFICATION**

Product name : Avicor™ 390

Product code : 000000000021015937

**Manufacturer or supplier's details**

Company name of supplier	: Celanese Sales U.S. Ltd.
Address	: 222 West Las Colinas Boulevard Suite 900N Irving TX 75039
Telephone	: '+1 972-443-4000
E-mail address of person responsible for the SDS	: HazCom@celanese.com
Emergency telephone	: DOMESTIC NORTH AMERICA: 800-424-9300 INTERNATIONAL, CALL +1 703-527-3887 (collect calls accepted)

**Recommended use of the chemical and restrictions on use**

Recommended use : For industrial use only.

**SECTION 2. HAZARDS IDENTIFICATION****GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**

Not a hazardous substance or mixture.

**GHS label elements**

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical nature : Water-borne polymer emulsion.

**Components**

Chemical name	CAS-No.	Concentration (% w/w)
2,2'-ethylenedioxydiethyl bis(2-ethylhexanoate)	94-28-0	$\geq 1 - < 5$

Actual concentration is withheld as a trade secret

**SECTION 4. FIRST AID MEASURES**

General advice	: Remove contaminated, soaked clothing immediately and dispose of safely Do not leave the victim unattended.
If inhaled	: If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of eye contact	: Remove contact lenses.

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If swallowed	:	Protect unharmed eye. If eye irritation persists, consult a specialist. Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
Most important symptoms and effects, both acute and delayed	:	None known.
Notes to physician	:	Treat symptomatically.

**SECTION 5. FIRE-FIGHTING MEASURES**

Specific hazards during fire fighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
Further information	:	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 fire-fighters	:	Wear self-contained breathing apparatus for firefighting if necessary.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Environmental precautions	:	Prevent product from entering drains. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	:	Wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable, closed containers for disposal.

**SECTION 7. HANDLING AND STORAGE**

Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Advice on safe handling	:	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
Conditions for safe storage	:	Agitate before use Keep at temperatures between 5°C and 35°C (40°F and 95°F) Keep tightly closed in a dry and cool place. Protect from frost Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.
Further information on storage conditions	:	Store in a cool place- Protect from freezing
Materials to avoid	:	No materials to be especially mentioned.

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Further information on storage stability : No decomposition if stored and applied as directed.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Ingredients with workplace control parameters**

Contains no substances with occupational exposure limit values.

**Personal protective equipment**

Respiratory protection	: No personal respiratory protective equipment normally required.
Eye protection	: Safety glasses
Skin and body protection	: Protective suit
Hygiene measures	: General industrial hygiene practice.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	: liquid
Color	: milky
Odor	: sweet
pH	: 5
Melting point/ range	: 32 °F / 0 °C 32 °F / -0.00 °C
Boiling point/boiling range	: 212 °F / 100 °C 212 °F / 100 °C
Flash point	: boils before flash
Flammability (solid, gas)	: The product is not flammable.
Vapor pressure	: 24 hPa (68 °F / 20 °C)
Density	: 0.97 - 1.07 g/cm <sup>3</sup> (77 °F / 25 °C) Method: ISO 2811-3

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	: No decomposition if stored and applied as directed.
Chemical stability	: No decomposition if stored and applied as directed.
Possibility of hazardous reactions	: Stable under recommended storage conditions. No hazards to be specially mentioned.
Conditions to avoid	: Protect from frost. No data available
Incompatible materials	: Water-reactive substances Not applicable
Hazardous decomposition	: No decomposition if stored and applied as directed.

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**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity**

Not classified due to lack of data.

**Product:**

Acute oral toxicity	:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: 114.01 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method

**Components:****2,2'-ethylenedioxydiethyl bis(2-ethylhexanoate):**

Acute oral toxicity	:	LD50 (Rat, female): > 2,000 mg/kg Method: OECD Test Guideline 420
Acute inhalation toxicity	:	LC50 (Rat, male): > 2 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403
Acute dermal toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402

**Skin corrosion/irritation**

Not classified due to lack of data.

**Components:****2,2'-ethylenedioxydiethyl bis(2-ethylhexanoate):**

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	Mild skin irritation

**Serious eye damage/eye irritation**

Not classified due to lack of data.

**Components:****2,2'-ethylenedioxydiethyl bis(2-ethylhexanoate):**

Species	:	Rabbit
Result	:	Slight or no eye irritation
Assessment	:	Not classified as irritant
Method	:	OECD Test Guideline 405
Remarks	:	Based on available data, the classification criteria are not met.

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**Respiratory or skin sensitization****Skin sensitization**

Not classified due to lack of data.

**Respiratory sensitization**

Not classified due to lack of data.

**Components:****2,2'-ethylenedioxydiethyl bis(2-ethylhexanoate):**

Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	Not a skin sensitizer.

**Germ cell mutagenicity**

Not classified due to lack of data.

**Components:****2,2'-ethylenedioxydiethyl bis(2-ethylhexanoate):**

Genotoxicity in vitro	:	Test Type: Ames test Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative
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	:	Test Type: In vitro mammalian cell gene mutation test Test system: mouse lymphoma cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative
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**Carcinogenicity**

Not classified due to lack of data.

**Components:****2,2'-ethylenedioxydiethyl bis(2-ethylhexanoate):**

Result	:	No evidence of carcinogenicity in animal studies.
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<b>IARC</b>	No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
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<b>OSHA</b>	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
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<b>NTP</b>	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
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**Reproductive toxicity**

Not classified due to lack of data.

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**Components:****2,2'-ethylenedioxydiethyl bis(2-ethylhexanoate):**

Effects on fertility : Species: Rat  
Application Route: Oral  
General Toxicity Parent: NOAEL: 977 - 1,563 mg/kg body weight  
Method: OECD Test Guideline 422  
Result: No adverse reproductive / developmental effects at the highest dose tested

**STOT-single exposure**

Not classified due to lack of data.

**STOT-repeated exposure**

Not classified due to lack of data.

**Repeated dose toxicity****Components:****2,2'-ethylenedioxydiethyl bis(2-ethylhexanoate):**

Species : Rat  
NOAEL : 314 - 576  
Application Route : Oral  
Exposure time : 28d  
Remarks : No adverse effects.

**Aspiration toxicity**

Not classified due to lack of data.

**Further information****Product:**

Remarks : No data available

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Components:****2,2'-ethylenedioxydiethyl bis(2-ethylhexanoate):**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 97 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 38.7 mg/l  
aquatic invertebrates Exposure time: 48 h  
Method: 88/302/EEC

Toxicity to algae/aquatic : EC50 (Desmodesmus subspicatus (green algae)): > 55 mg/l  
plants Exposure time: 72 h  
Method: 88/302/EEC

Toxicity to microorganisms : EC10 (Pseudomonas putida): > 1,934 mg/l

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Exposure time: 5 h

**Persistence and degradability****Components:****2,2'-ethylenedioxydiethyl bis(2-ethylhexanoate):**

Biodegradability : BODIS (BOD Test for insoluble substances)  
Result: Readily biodegradable.  
Biodegradation: 92 %  
Exposure time: 28 d

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects****Product:**

Results of PBT and vPvB assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Harmful to aquatic life with long lasting effects.

**Components:****2,2'-ethylenedioxydiethyl bis(2-ethylhexanoate):**

Results of PBT and vPvB assessment : The substance does not meet the criteria for PBT / vPvB according to REACH, Annex XIII

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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.

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**SECTION 14. TRANSPORT INFORMATION****International Regulations****UNRTDG**

Not regulated as a dangerous good

**IATA-DGR**

Not regulated as a dangerous good

**IMDG-Code**

Not regulated as a dangerous good

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

Not applicable for product as supplied.

**Domestic regulation****49 CFR**

Not regulated as a dangerous good

**Special precautions for user**

Not applicable

**SECTION 15. REGULATORY INFORMATION****SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 302 Extremely Hazardous Substances Threshold Planning Quantity**

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : No SARA Hazards**SARA 313** : 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.**SECTION 16. OTHER INFORMATION****Full text of other abbreviations**

AIIC - Australian Inventory of Industrial Chemicals; 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 Administration; 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



# SAFETY DATA SHEET



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es; (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; TECI - Thailand Existing Chemicals 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

Revision Date : 09-25-2024

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.

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