

Printing date 09/05/2024

Revision date 09/05/2024

Page 1/8

· Product identifier	
 Trade name: <u>Clofibrate</u> Synonym 2-(4-chlorophenoxy)-2-methyl-propanoic 	acid. ethvl ester
ICÌ 28257 NSC 79389	
 Article number: 10956 CAS Number: 637-07-0 EC number: 	
211-277-4	
• Application of the substance / the mix This product is for research use - Not for	xture r human or veterinary diagnostic or therapeutic use.
 Details of the supplier of the safety data Manufacturer/Supplier: Cayman Chemical Co. 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 	ata sheet
USA	
USA • Information department: Product safet • Emergency telephone number: During normal opening times: +1 (734) 9 US/CANADA: 800-424-9300	
USA • Information department: Product safet • Emergency telephone number: During normal opening times: +1 (734) 9 US/CANADA: 800-424-9300 Outside US/CANADA: 703-741-5970	971-3335
USA Information department: Product safet Emergency telephone number: During normal opening times: +1 (734) 9 US/CANADA: 800-424-9300 Outside US/CANADA: 703-741-5970 2 Hazard(s) identification 	971-3335
USA Information department: Product safet Emergency telephone number: During normal opening times: +1 (734) 9 US/CANADA: 800-424-9300 Outside US/CANADA: 703-741-5970 2 Hazard(s) identification Classification of the substance or mix 	971-3335
USA Information department: Product safet Emergency telephone number: During normal opening times: +1 (734) 9 US/CANADA: 800-424-9300 Outside US/CANADA: 703-741-5970 2 Hazard(s) identification Classification of the substance or mix GHS05 Corrosion 	071-3335 xture
USA Information department: Product safet Emergency telephone number: During normal opening times: +1 (734) 9 US/CANADA: 800-424-9300 Outside US/CANADA: 703-741-5970 2 Hazard(s) identification Classification of the substance or mix GHS05 Corrosion Eye Damage 1	071-3335 xture
USA Information department: Product safet Emergency telephone number: During normal opening times: +1 (734) 9 US/CANADA: 800-424-9300 Outside US/CANADA: 703-741-5970 2 Hazard(s) identification Classification of the substance or mix GHS05 Corrosion Eye Damage 1 GHS07	971-3335 xture H318 Causes serious eye damage.

Printing date 09/05/2024

Revision date 09/05/2024

Trade name: Clofibrate

	(Contd. from page 1)
· Label elements	
 GHS label elen The substance 	nents is classified and labeled according to the Globally Harmonized System (GHS).
 Hazard pictogi 	rams
GHS05 GHS	07
G1303 G13	01
· Signal word Da	anger
 Hazard statem 	ents
H302 Harmful it	f swallowed.
H315 Causes s	
	erious eye damage.
	e respiratory irritation.
• Precautionary	
P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P264	Wash thoroughly after handling.
P270 P271	Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves / eye protection / face protection.
P301+P312	If swallowed: Call a poison center/doctor if you feel unwell.
P302+P352	If on skin: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P310	Immediately call a poison center/doctor.
P321	Specific treatment (see on this label).
P330	Rinse mouth.
P362+P364	Take off contaminated clothing and wash it before reuse.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405 P501	Store locked up.
F301	Dispose of contents/container in accordance with local/regional/national/international regulations.
· Classification	
• NFPA ratings (
	ealth = 3
	re = 1
Re Re	eactivity = 0
· HMIS-ratings (scale 0 - 4)
HEALTH *3 H	lealth = *3
·	ire = 1
	Reactivity = 0
Other hazards	
	Г and vPvB assessment
• PBT: Not applie	
· vPvB: Not appl	

US

Printing date 09/05/2024

Revision date 09/05/2024

Trade name: Clofibrate

(Contd. from page 2)

3 Composition/information on ingredients

- · Chemical characterization: Substances
- CAS No. Description 637-07-0 Clofibrate
- Identification number(s)
- EC number: 211-277-4

4 First-aid measures

- Description of first aid measures
- · General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Immediately call a doctor.
- 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:
- Use fire fighting measures that suit the environment.
- A solid water stream may be inefficient.
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Wear protective equipment. Keep unprotected persons away.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: Use neutralizing agent. Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.
- 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.

(Contd. on page 4)

US

Printing date 09/05/2024

Revision date 09/05/2024

(Contd. from page 3)

Trade name: Clofibrate

· PAC-3: Substance is not listed.

7 Handling and storage

- · Handling:
- Precautions for safe handling Thorough dedusting.
- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- Storage: Store in accordance with information listed on the product insert.
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.

• Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see section 7.

- · Control parameters
- · Components with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the skin.

Avoid contact with the eyes and skin.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 5)

115

Printing date 09/05/2024

Revision date 09/05/2024

(Contd. from page 4)

Trade name: Clofibrate

· Eye protection:



Tightly sealed goggles

9 Physical and chemical properties · Information on basic physical and chemical properties General Information · Appearance: Form: neat oil Color: Not determined. · Odor: Characteristic · Structural Formula C12H15CIO3 · Molecular Weight 242.7 g/mol · Odor threshold: Not determined. · pH-value: Not applicable. · Change in condition Melting point/Melting range: <25 °C (<77 °F) Boiling point/Boiling range: 148-150 °C (298.4-302 °F) · Flash point: 113 °C (235.4 °F) · Flammability: Product is not flammable. · Decomposition temperature: Not determined. · Ignition temperature: Not determined. Danger of explosion: Product does not present an explosion hazard. · Explosion limits: Lower: Not determined. Upper: Not determined. · Vapor pressure: Not applicable. · Density: Not determined. · Relative density Not determined. · Vapor density Not applicable. **Evaporation rate** Not applicable. · Solubility in / Miscibility with Water: Not determined. · Partition coefficient (n-octanol/water): Not determined. · Viscosity: Dynamic: Not applicable. **Kinematic:** Not applicable. DMF: 50 mg/ml; DMSO: 80 mg/ml; Ethanol: 80 mg/ml; SOLUBILITY Ethanol:PBS(pH 7.2) (1:5): .1 mg/ml (Contd. on page 6) US

Printing date 09/05/2024

Revision date 09/05/2024

(Contd. from page 5)

Trade name: Clofibrate

• Other information

No further relevant information available.

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: strong oxidizing agents, strong bases
- · Hazardous decomposition products: hydrogen chloride gas, carbon monoxide, carbon dioxide

11 Toxicological information

· RTECS Number UE9480000

- · Information on toxicological effects
- Acute toxicity:

· LD/LC50 values that are relevant for classification:

Oral	TDLO	171 ml/kg/6D intermittent (man)
		0.40 mg/kg (rot)

LD50 940 mg/kg (rat) Intraperitoneal LD50 910 mg/kg (rat)

· Primary irritant effect:

- on the skin: Irritant to skin and mucous membranes.
- on the eye: Strong irritant with the danger of severe eye injury.
- · Sensitization: No sensitizing effects known.
- Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) 3
- NTP (National Toxicology Program) Substance is not listed.
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:
- Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.

(Contd. on page 7)

Printing date 09/05/2024

Revision date 09/05/2024

(Contd. from page 6)

Trade name: Clofibrate

- · **vPvB:** Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

UN-Number	
DOT, IMDG, IATA	not regulated
UN proper shipping name	
DOT, IMDG, IATA	not regulated
Transport hazard class(es)	
DOT, ADN, IMDG, IATA	
Class	not regulated
Packing group	
DOT, IMDG, IATA	not regulated
Environmental hazards:	Not applicable.
Special precautions for user	Not applicable.
Transport in bulk according to Ann	nex II of
MARPOL73/78 and the IBC Code	Not applicable.

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- · Sara
- · Section 355 (extremely hazardous substances): Substance is not listed.
- Section 313 (Specific toxic chemical listings): Substance is not listed.
- TSCA (Toxic Substances Control Act): Substance is not listed.
- · Hazardous Air Pollutants Substance is not listed.
- · Proposition 65
- · Chemicals known to cause cancer: Substance is listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- Chemicals known to cause developmental toxicity: Substance is not listed.
- · Carcinogenic categories
- EPA (Environmental Protection Agency) Substance is not listed.

(Contd. on page 8)

US

Printing date 09/05/2024

Revision date 09/05/2024

(Contd. from page 7)

Trade name: Clofibrate

· TLV (Threshold Limit Value) Substance is not listed.

- · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

All chemicals may pose unknown hazards and should be used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of these data. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.

· Department issuing SDS: Environment protection department.

Contact: -

- · Date of preparation / last revision 09/05/2024 / -
- · Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Acute Toxicity - Oral 4: Acute toxicity - Category 4 Skin Irritation 2: Skin corrosion/irritation - Category 2 Eye Damage 1: Serious eye damage/eye irritation - Category 1 Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) - Category 3 ** Data compared to the previous version altered.