



# Material Safety Data Sheet

Revision date: 02-Dec-2005

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

**Catalog Number:** 195308  
**Product name:** MERSALYL ACID  
**Synonyms:** [3-(alpha-Carboxy-o-anisamido)-2-methoxypropyl] hydroxymercury; Salyrganic acid; 2-(3-Hydroxymercurio-2-methoxypropylcarbamoyl) phenoxyacetic acid

**Supplier:** MP Biomedicals, LLC  
Parc d'Innovation  
BP 50067  
67402 ILLKIRCH CEDEX  
France

**Emergency telephone number:** "n° ORFILA" (01-45-42-59-59)

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Weight %	EC No.	Classification	Notes	Annex No.:
MERSALYL ACID	486-67-9	> 25%	--	T; N	--	080-001-00-0

## 3. HAZARDS IDENTIFICATION

### Indication of Danger:

T - Toxic.  
N - Dangerous For The Environment.



### Risk Phrases:

R23 - Toxic by inhalation.  
R53 - May cause long-term adverse effects in the aquatic environment.  
R50 - Very toxic to aquatic organisms.  
R33 - Danger of cumulative effects.

### Category of Danger:

Toxic , Dangerous for the environment , Skin Sensitizer , Repr. cat. 2 , Carc. cat. 3

## 4. FIRST AID MEASURES

**General advice:** In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

<b>Inhalation:</b>	Move to fresh air. Call a physician immediately.
<b>Skin contact:</b>	Wash off immediately with soap and plenty of water Consult a physician if necessary
<b>Ingestion:</b>	Drink 1 or 2 glasses of water. Induce vomiting if person is conscious.
<b>Eye contact:</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

## 5. FIRE-FIGHTING MEASURES

<b>Suitable extinguishing media:</b>	Use dry chemical, CO2, water spray or "alcohol" foam
<b>Specific hazards:</b>	Burning produces irritant fumes.
<b>Special protective equipment for firefighters:</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear
<b>Flash point:</b>	Not determined
<b>Autoignition temperature:</b>	Not determined

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions:</b>	Use personal protective equipment.
<b>Environmental precautions:</b>	Do not flush into surface water or sanitary sewer system.
<b>Methods for cleaning up:</b>	Soak up with inert absorbent material.

## 7. HANDLING AND STORAGE

<b>Storage:</b>	ROOM TEMPERATURE PROTECT FROM LIGHT
<b>Handling:</b>	Use only in area provided with appropriate exhaust ventilation.
<b>Safe handling advice:</b>	Wear personal protective equipment. Remove and wash contaminated clothing before reuse.
<b>Technical measures/storage conditions:</b>	Keep container tightly closed in a dry and well-ventilated place. Keep containers tightly closed in a cool, well-ventilated place.
<b>Incompatible products:</b>	Oxidising and spontaneously flammable products

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components	Belgium OEL (TWA):	Belgium - 8 Hr VLE	Belgium - Liste non Limitative de Substances et Procèdes	Belgium - Liste de Substances et Preparations Cancerigenes
MERSALYL ACID		0.05 mg/m <sup>3</sup> VLE (as Hg)		

**Engineering measures:** Ensure adequate ventilation, especially in confined areas.

**Respiratory protection:** Breathing apparatus needed only when aerosol, vapor or dust is formed.

**Skin and body protection:** Impervious clothing Long sleeved clothing

**Eye protection:** Safety glasses with side-shields

**Hand protection:** Gloves

Components	UK EH40 MEL (TWA):	United Kingdom - Maximum Exposure Limit	United Kingdom - Carcinogens	United Kingdom - The Red List:
MERSALYL ACID				Original entry

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance and Odor</b>	White
<b>Physical state:</b>	Powder
<b>Formula:</b>	C <sub>13</sub> H <sub>17</sub> HgNO <sub>6</sub>
<b>Molecular weight:</b>	483.9
<b>Melting point/range:</b>	192-193 deg C (dec.)
<b>Boiling point/range:</b>	No Data available at this time.
<b>Density:</b>	No data available
<b>Vapor pressure:</b>	No data available
<b>Evaporation rate:</b>	No data available
<b>Vapor density:</b>	No data available
<b>Solubility (in water):</b>	No data available
<b>Flash point:</b>	Not determined
<b>Autoignition temperature:</b>	Not determined

**10. STABILITY AND REACTIVITY**

<b>Stability:</b>	Stable under recommended storage conditions.
<b>Polymerization:</b>	None under normal processing.
<b>Hazardous decomposition products:</b>	Mercury (Hg)
<b>Materials to avoid:</b>	Strong acids and oxidising agents
	Light
Acetylenes, ammonia gases (as Hg)	
<b>Conditions to avoid:</b>	Exposure to air or moisture over prolonged periods.

**11. TOXICOLOGICAL INFORMATION****Product Information****Acute toxicity**

Components	<b>RTECS Number:</b>	<b>Selected LD50s and LC50s</b>
MERSALYL ACID	Not Available	Not Determined

<b>Chronic toxicity:</b>	Chronic exposure may cause nausea and vomiting, higher exposure causes unconsciousness.
<b>Local effects:</b>	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
<b>Specific effects:</b>	May include moderate to severe erythema (redness) and moderate edema (raised skin), nausea, vomiting, headache.
<b>Primary irritation:</b>	No data is available on the product itself.
<b>Carcinogenic effects:</b>	Possible carcinogen
<b>Mutagenic effects:</b>	No data is available on the product itself.
<b>Reproductive toxicity:</b>	Experiments have shown reproductive toxicity effects on laboratory animals.

Components	<b>NIOSH - Health Effects</b>	<b>NIOSH - Target Organs</b>
MERSALYL ACID	CNS damage; eye, respiratory, and skin irritation	skin, respiratory system, CNS, kidneys, eyes

**12. ECOLOGICAL INFORMATION**

<b>Mobility:</b>	No data available
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**Bioaccumulation:** No data available  
**Ecotoxicity effects:** No data available  
**Aquatic toxicity:** May cause long-term adverse effects in the aquatic environment.

Components	U.S. DOT - Appendix B - Marine Pollutan	U.S. DOT - Appendix B - Severe Marine Pollutants	United Kingdom - The Red List:
MERSALYL ACID	Not Listed	DOT regulated severe marine pollutant	Original entry

Components	Germany VCI (WGK)	World Health Organization (WHO) - Drinking Water	Ecotoxicity - Fish Species Data
MERSALYL ACID	3	0.001 mg/L (total)	LC50 (96 hr) rainbow trout:0.16-0.90 mg/L.;LC50 (96 hr) bluegill sunfish:0.16-0.90 mg/L.;LC50 (96 hr) catfish:0.35 mg/L.:

Components	Ecotoxicity - Freshwater Algae Data	Ecotoxicity - Microtox Data	Ecotoxicity - Water Flea Data
MERSALYL ACID	Not Listed	Not Listed	LC50 (96 hr) water flea:5.0 ug/L:

Components	EPA - ATSDR Priority List	EPA - HPV Challenge Program Chemical List	California - Priority Toxic Pollutants
MERSALYL ACID	Rank (of 275): 003	Not Listed	Maximum and continuous concentrations = reserved

Components	California - Priority Toxic Pollutants	California - Priority Toxic Pollutants
MERSALYL ACID	Water and organisms = 0.050 ug/L; organisms only = 0.051 ug/L	Maximum and continuous concentrations = reserved

### 13. DISPOSAL CONSIDERATIONS

**Waste from residues / unused products:**

Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Residue from fires extinguished with this material may be hazardous.

**Contaminated packaging:  
Methods for cleaning up:**

Do not re-use empty containers  
Soak up with inert absorbent material.

### 14. TRANSPORT INFORMATION

**UN/Id No:** 2025

**ADR/RID**

**Proper shipping name:  
Hazard Class**

Mercury compound, solid, n.o.s.

6.1 -  
Toxic substances - oral

**Packing group:  
Classification code:  
HIN:**

II  
T5  
6.1B

**IMDG/IMO**

Catalog Number: 195308

Product name: MERSALYL ACID

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**Proper shipping name:** Mercury compound, solid, n.o.s.

**ICAO/IATA**

**Proper shipping name:** Mercury compound, solid, n.o.s.  
**IATA Hazard Label(s):** Toxic  
**Hazard Class** 6.1 -  
 Toxic substances - oral  
**Packing group:** II

Components	CERCLA/SARA - Reportable Quantities
MERSALYL ACID	final RQ = 1 pound (0.454 kg)

**15. REGULATORY INFORMATION**

**Classification:** Classification by EU - Annex 1 to Council Directive 67/548/EEC

**Indication of Danger:**

T - Toxic.

N - Dangerous For The Environment.



**Risk Phrases:** R23 - Toxic by inhalation.  
 R53 - May cause long-term adverse effects in the aquatic environment.  
 R50 - Very toxic to aquatic organisms.  
 R33 - Danger of cumulative effects.

**Safety Phrases:** S60 - This material and its container must be disposed of as hazardous waste.  
 S61 - Avoid release to the environment. Refer to special instructions/Safety data sheets.  
 S 7 - Keep container tightly closed.  
 S45 - In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

Components	EU EINECS List -	Germany TA-Luft List - Section	Germany VCI (WGK)	Switzerland Giftliste:
MERSALYL ACID	207-637-5; C13H16HgNO6.H	Not Listed	3	Not Listed

**Classification according to VbF:** -

**16. OTHER INFORMATION**

**Prepared by:** Health & Safety

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**End of Safety Data Sheet**