

SAFETY DATA SHEET

Preparation Date: 08/06/2019

Revision date 08/06/2019

Revision Number: G1

1. IDENTIFICATION

Product identifier

Product code: M1191
Product Name: MEPERIDINE HYDROCHLORIDE (CII), USP

Other means of identification

Synonyms:

Algil
 Alodan (gerot)
 Antidurool
 Chlorbicyclene (French)
 Chlorbycyclen
 Demerol hydrochloride
 Dolantin hydrochloride
 Dolargan
 Dolcontral
 Dolin
 Doloneurine
 Dolopethin
 Dolosal
 Endolat
 Ethyl-1-methyl-4-phenylisonipecotate hydrochloride
 Ethyl 1-methyl-4-phenylpiperidine-4-carboxylate hydrochloride
 Ethyl 1-methyl-4-phenylpiperidyl-4-carboxylate hydrochloride
 Isonipecaïne hydrochloride
 Centralgin
 Mefedina
 Mepadin
 Meperidine hydrochloride
 Mephedine
 1-Methyl-4-carbethoxy-4-phenylpiperidine hydrochloride
 N-Methyl-4-phenyl-4-carboethoxypiperidine hydrochloride
 1-Methyl-4-phenyl-4-carboethoxypiperidine hydrochloride
 1-Methyl-4-phenylisonipecotic acid ethyl ester hydrochloride
 Operidine
 Pantalgine
 Pentantin
 Petantin hydrochloride
 Pethidine chloride
 Pethidine, hydrochloride
 4-Piperidinecarboxylic acid, 1-methyl-4-phenyl-, ethyl ester, hydrochloride
 Sauteralgyl
 Spasmedal
 Spasmodolin
 Synelaudine
CAS #: 50-13-5
RTECS # NS5950000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: No information available.
Uses advised against No information available

Supplier: Spectrum Chemical Mfg. Corp
14422 South San Pedro St.
Gardena, CA 90248
(310) 516-8000

Order Online At: <https://www.spectrumchemical.com>

Emergency telephone number Chemtrec 1-800-424-9300

Contact Person: Tom Tyner (USA - West Coast)

Contact Person: Ibad Tirmiz (USA - East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Acute toxicity - Oral	Category 3
Specific target organ toxicity (single exposure)	Category 3

Label elements

Danger

Hazard statements

Toxic if swallowed
May cause drowsiness or dizziness



Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

Not available

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Avoid breathing dust
Use only outdoors or in a well-ventilated area

Product code: M1191

Product name: MEPERIDINE
HYDROCHLORIDE (CII), USP

Precautionary Statements - Response

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.

IF SWALLOWED: Immediately call a POISON CENTER or physician
Rinse mouth

Precautionary Statements - Storage

Store locked up
Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

Dispose of contents and container to an approved waste disposal plant in accordance with local, regional, national and international regulations as applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No	Weight-%
Meperidine Hydrochloride	50-13-5	100

4. FIRST AID MEASURES

First aid measures

- General Advice:** National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. First aider needs to protect himself.
- Skin Contact:** Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention. If skin irritation persists, call a physician.
- Eye Contact:** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention.
- Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
- Ingestion:** Toxic if swallowed. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Immediate medical attention is required.

Most important symptoms and effects, both acute and delayed

- Symptoms**
- May cause drowsiness or dizziness
 - May be habit forming
 - Narcosis
 - Sedation
 - Pinpoint pupils (myosis)
 - May cause nausea and vomiting
 - May cause constipation
 - Respiratory depression
 - Headache
 - Weakness
 - Agitation
 - Hallucinations
 - Slurred speech
 - Nausea
 - Confusion
 - Convulsions

Seizures
Sweating and flushing of skin

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Carbon dioxide (CO₂). Dry chemical. Water spray mist or foam.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous combustion products Carbon monoxide. Carbon dioxide (CO₂). Nitrogen oxides (NO_x). hydrogen chloride gas.

Specific hazards May be combustible at high temperatures. Fire may produce irritating and/or toxic gases.

Special Protective Actions for Firefighters

Specific Methods: No information available

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid breathing dust. Remove all sources of ignition. All equipment used when handling the product must be grounded.

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

Methods for cleaning up Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. All equipment used when handling the product must be grounded. Remove all sources of ignition. Keep away from incompatible materials.

Safe Handling Advice:

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe dust. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities**Technical Measures/Storage Conditions:**

Sensitive to light. Store in light-resistant containers. Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Store away from incompatible materials.

Incompatible Materials:

Strong bases
Ammonia
Amines
Oxidizing agents
iodides
Iodine
Alkalis

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters**National occupational exposure limits****United States**

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
Meperidine Hydrochloride	50-13-5	None	None	None	None

Canada

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Meperidine Hydrochloride	50-13-5	None	None	None	None

Australia and Mexico

Component	CAS No	Australia	Mexico
Meperidine Hydrochloride	50-13-5	None	None

Appropriate engineering controls**Engineering measures to reduce exposure:**

Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection:	Goggles or Safety glasses with side-shields.
Skin and body protection:	Chemical resistant apron Long sleeved clothing Gloves
Respiratory protection:	Effective dust mask. Use a dust respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentration of dust (dust clouds) , inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.
Hygiene measures:	Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid	Appearance: Crystalline powder.	Color: White.
Odor: No information available.	Taste No information available.	Formula C15H21NO2.HCl
Molecular/Formula weight (g/mole): 283.79	Flammability (solid, gas) no data available	Flashpoint (°C/°F): No information available
Flash Point Tested according to: Not available	Autoignition Temperature (°C/°F): No information available	Lower Explosion Limit (%): No information available
Upper Explosion Limit (%): No information available	Melting point/range(°C/°F): 186-189°C/ 366.8-372.2°F	Decomposition temperature(°C/°F): No information available
Boiling point/range(°C/°F): No information available	Bulk density: No information available	Density (g/cm3): No information available
Specific gravity: No information available	pH No information available	Vapor pressure @ 20°C (kPa): No information available
Evaporation rate: No information available	Vapor density: No information available	VOC content (g/L): No information available
Odor threshold (ppm): No information available	Partition coefficient (n-octanol/water): 2.5	Viscosity: No information available
Miscibility: No information available	Solubility: Soluble in Methanol Soluble in cold water Soluble in Ethanol Soluble in Acetone Soluble in ethyl acetate Insoluble in Benzene Insoluble in diethyl ether	

10. STABILITY AND REACTIVITY

Reactivity

No information available

Chemical stability

Stability: Sensitive to light. Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Heat. Ignition sources. Incompatible materials. Exposure to light.

Incompatible Materials: Strong bases
Ammonia
Amines
Oxidizing agents
iodides
Iodine
Alkalis

Hazardous decomposition products: Carbon oxides. Nitrogen oxides (NO_x). Hydrogen chloride.

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:

Skin. Eyes. Inhalation. Ingestion.

Acute Toxicity

The following values are calculated based on chapter 3.1 of the GHS document

Component Information

Meperidine Hydrochloride	
CAS No	50-13-5

LD50/oral/rat = 162 mg/kg Oral LD50 Rat = 170 mg/kg Oral LD50 Rat

LD50/oral/mouse = 178 mg/kg Oral LD50 Mouse

LD50/dermal/rabbit = No information available

LD50/dermal/rat = No information available

LC50/inhalation/rat = No information available

LC50/inhalation/mouse = No information available

Other LD50 or LC50 information = 500 mg/kg Oral LD50 Rabbit

Product Information

LD50/oral/rat =

Value - Acute Toxicity = 162 mg/kg

Product code: M1191

Product name: MEPERIDINE
HYDROCHLORIDE (CII), USP

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LD50/oral/mouse =
Value - Acute Tox = 178 mg/kg

LD50/dermal/rabbit
Value - Acute Toxicity = No information available

LD50/dermal/rat
VALUE - Acute Tox = No information available

LC50/inhalation/rat
VALUE-Vapor = No information available
VALUE-Gas = No information available
VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse
VALUE-Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: May cause skin irritation.

Eye Contact: May cause eye irritation.

Inhalation May cause irritation of respiratory tract. May cause dizziness and headache. May cause drowsiness/sleepiness. Symptoms may include coughing and shortness of breath.

Ingestion Toxic if swallowed. Ingestion may cause nausea, vomiting. May cause flushing and sweating. May affect eyes (pinpoint pupils). It may affect behavior/central nervous system (convulsions, excitement). May cause muscle weakness. May cause constipation. It may cause central nervous system depression.

Aspiration hazard No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity It may be habit forming.

Sensitization: No information available.

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic.

Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Meperidine Hydrochloride	50-13-5	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

Reproductive toxicity No data is available

Reproductive Effects: No information available
Developmental Effects: No information available
Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposure respiratory system.
STOT - repeated exposure No information available.
Target Organs: No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: No data available.

Persistence and degradability: No information available

Bioaccumulative potential: No information available.

Mobility in soil No information available
Other adverse effects No information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:
 Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:
 Empty containers should be taken for local recycling, recovery or waste disposal

Component	CAS No	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Meperidine Hydrochloride	50-13-5	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No: UN1544
Proper Shipping Name: Alkaloids, solid, n.o.s.
Hazard Class 6.1
Subsidiary Class No information available
Packing group: III
Emergency Response Guide Number 151
Marine Pollutant No data available
DOT RQ (lbs): No information available

Special Provisions IB8, IP3, T1, TP33
Symbol(s): No information available
Description: UN1544, Alkaloids, solid, n.o.s., 6.1, III

TDG (Canada)
UN-No: UN1544
Proper Shipping Name: Alkaloids, solid, n.o.s.
Hazard Class 6.1
Subsidiary Risk: No information available
Packing Group: III
Marine Pollutant No Information available
Description: UN1544, Alkaloids, solid, n.o.s., 6.1, III

ADR
UN Number UN1544
Proper Shipping Name: Alkaloids, solid, n.o.s.
Transport hazard class(es) 6.1
Packing group III
Subsidiary Risk: No information available
Special Provisions 43, 274
Description: UN1544, Alkaloids, solid, n.o.s., 6.1, III

IMDG
UN-No: UN1544
Proper Shipping Name: Alkaloids, solid, n.o.s.
Hazard Class: 6.1
Subsidiary Risk: No information available
Packing Group: III
Marine Pollutant No information available
EMS: F-A
Special Provisions 43, 223, 274
Description UN1544, Alkaloids, solid, n.o.s. (MEPERIDINE HYDROCHLORIDE), 6.1, III

RID
UN Number UN1544
Proper Shipping Name: Alkaloids, solid, n.o.s.
Transport hazard class(es) 6.1
Subsidiary Risk: No information available
Packing group III
Special Provisions 43, 274
Description: UN1544, Alkaloids, solid, n.o.s., 6.1, III

ICAO (air)
UN-No: UN1544
Proper Shipping Name: Alkaloids, solid, n.o.s.
Hazard Class 6.1
Subsidiary Risk: No information available
Packing Group: III
Description: UN1544, Alkaloids, solid, n.o.s., 6.1, III
Special Provisions A3, A5, A6

IATA
UN Number UN1544
Proper Shipping Name: Alkaloids, solid, n.o.s.
Transport hazard class(es) 6.1
Subsidiary Risk: No information available
Packing group III
Precautionary Statements - 6L

**Response
Special Provisions
Description:**

No information available
UN1544, Alkaloids, solid, n.o.s., 6.1, III

15. REGULATORY INFORMATION

International Inventories

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia (AICS)	EINECS-No.
<i>Meperidine Hydrochloride</i>	50-13-5	Not Listed	Present KE-24833	Not present	Not present	Not listed	Not listed	Present 200-013-3

U.S. Regulations

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Component	CAS No	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
<i>Meperidine Hydrochloride</i>	50-13-5	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Component	CAS No	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
<i>Meperidine Hydrochloride</i>	50-13-5	None	None	None	None	None

U.S. TSCA

Component	CAS No	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
<i>Meperidine Hydrochloride</i>	50-13-5	Not Applicable	Not Applicable

Canada

WHMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

The WHMIS 2015 classification of this product has not been validated or reviewed yet.

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

DSL/NDSL

Component	CAS No	Canada (DSL)	Canada (NDSL)
Meperidine Hydrochloride	50-13-5	Present	Not Listed

Component	CAS No	CEPA Schedule I - Toxic Substances
Meperidine Hydrochloride	50-13-5	Not listed
Component	CAS No	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Meperidine Hydrochloride	50-13-5	Not listed

EU Classification

EU GHS - SV - CLP 1272/2008

Component	CAS No	EU GHS - SV - CLP (1272/2008)
Meperidine Hydrochloride	50-13-5	

EU - CLP (1272/2008)

R-phrase(s)

R25 - Toxic if swallowed

S -phrase(s)

S 7 - Keep container tightly closed.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

Component	CAS No	Classification	Concentration Limits:	Safety Phrases
Meperidine Hydrochloride	50-13-5		No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

T - Toxic

T



16. OTHER INFORMATION

Preparation Date: 08/06/2019
Revision date: 08/06/2019
Prepared by: Sonia Owen

Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (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. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications.

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End of Safety Data Sheet