


Section 1: Identification

Common Name/Trade Name	TRAMADOL HYDROCHLORIDE USP	
Supplier Information	Letco Medical, LLC 1316 Commerce Drive NW Decatur, AL 35601 1 (800) 239-5288 +1 (734) 843-4693	IN CASE OF EMERGENCY: Chemtrec 1 (800) 424-9300 (24 hours)
Product Synonym(s)	N/A	
Relevant Use(s) of Product	Manufacture or Compounding of Substances	

Section 2: Hazards Identification

Classification of Substance or Mixture	Acute toxicity, Oral (Category 4), Chronic aquatic toxicity (Category 2)	
Signal Word	Warning	
Hazard Statement(s)	H302 H411	Harmful if swallowed Toxic to aquatic life with long lasting effects
Pictogram(s)		
Precautionary Statement(s)	P264 P270 P273 P301+P312 P330 P391 P501	Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. IF SWALLOWED Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Collect spillage. Dispose of contents/container to an approved waste disposal plant.
Hazards Not Otherwise Classified	No data available	
Ingredient(s) with Unknown Toxicity	No data available	

Section 3: Composition/Information on Ingredients

Chemical Name	Tramadol hydrochloride
Common Name	Tramadol hydrochloride
CAS Number	36282-47-0
Additional Ingredient Information	N/A
Impurities and/or Stabilizing Additives	No data available

Section 4: First Aid Measures

General Advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
If Inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In Case of Skin Contact	Wash off with soap and plenty of water. Consult a physician.
In Case of Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If Swallowed	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Most Important Symptoms and Effects	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 5: Fire Fighting Measures

Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special Hazards Arising From the Substance/Mixture	Carbon oxides, Nitrogen oxides (NOx), Hydrogen chloride gas.
Special PPE and/or Precautions for Firefighters	Wear self-contained breathing apparatus for firefighting if necessary.

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures	Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust.
Methods and Materials Used for Containment	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
Cleanup Procedures	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Section 7: Handling and Storage

Precautions for Safe Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Conditions for Safe Storage	Keep container tightly closed in a dry and well-ventilated place.

Section 8: Exposure Controls/Personal Protection

Components with Workplace Control Parameters	No data available.
Appropriate Engineering Controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
PPE - Eye/Face Protection	Safety glasses with side-shields conforming to EN 166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
PPE - Skin Protection	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
PPE - Body Protection	Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
PPE - Respiratory Protection	For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Section 9: Physical and Chemical Properties

Appearance	Form: solid
Upper/Lower Flammability or Explosive Limits	No data available
Odor	No data available
Vapor Pressure	No data available
Odor Threshold	No data available
Vapor Density	No data available
pH	5.0 - 6.0 at 10 g/l at 20C
Relative Density	0.400 - 0.600 g/cm3
Melting Point/Freezing Point	Melting point/range: 178 - 181C
Solubility	Water solubility: soluble
Initial Boiling Point and Boiling Range	No data available
Flash Point	No data available
Evaporation Rate	No data available
Flammability (Solid, Gas)	No data available
Partition Coefficient	No data available
Auto-Ignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No data available

Section 10: Stability and Reactivity

Reactivity	No data available
Chemical Stability	No data available
Possibility of Hazardous Reactions	No data available
Conditions to Avoid	No data available
Incompatible Materials	Strong oxidizing agents.
Hazardous Decomposition Products	Other decomposition products - No data available

Section 11: Toxicological Information

Acute Toxicity - LD50 Oral	LD50 Oral - Rat - 303 mg/kg
Acute Toxicity - Inhalation	No data available
Acute Toxicity - Dermal	LD50 Dermal - Rabbit - > 500 mg/kg
Acute Toxicity - Eye	Eyes -Rabbit Result: Mild eye irritation.
Skin Corrosion/Irritation	Skin - Rabbit Result: No skin irritation
Serious Eye Damage/Irritation	Eyes -Rabbit Result: Mild eye irritation
Respiratory or Skin Sensitization	No data available
Germ Cell Mutagenicity	No data available
Carcinogenicity IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.
Carcinogenicity ACGIH	No data available
Carcinogenicity NTP	No data available
Carcinogenicity OSHA	No data available
Reproductive Toxicity	No data available
Specific Target Organ Toxicity - Single Exposure	No data available
Specific Target Organ Toxicity - Repeated Exposure	No data available
Aspiration Hazard	No data available

Section 12: Ecological Information

Toxicity	Toxicity to fish LC0 - Carassius auratus (goldfish) - 5.0 mg/l - 96.0 h LC50 - Carassius auratus (goldfish) - 6.2 mg/l - 96.0 h LC100 - Carassius auratus (goldfish) - 7.5 mg/l - 96.0 h
Persistence and Degradability	Biodegradability Result: < 5 % - Not readily biodegradable. (Closed Bottle test) Remarks: Taking into consideration the properties of several components, the product is estimated not to be readily biodegradable according to OECD classification.
Bio-accumulative Potential	No data available
Mobility in Soil	No data available
Other Adverse Effects	Toxic to aquatic life with long lasting effects.

Section 13: Disposal Considerations

Waste Treatment Methods Product	Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
Waste Treatment Methods Packaging	Dispose of as unused product.
Special Precautions Landfill or Incinerations	No data available
Other Information	Not dangerous goods.

Section 14: Transport Information

UN Number	2811
UN Proper Shipping Name	ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (trans-(+/-)-2 [(Dimethylamino) methyl]-1-(3-methoxyphenyl) cyclohexan-1-ol hydrochloride) IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (trans-(+/-)-2- [(Dimethylamino) methyl]-1-(3-methoxyphenyl) cyclohexan-1-ol hydrochloride) IATA: Environmentally hazardous substance, solid, n.o.s. (trans-(+/-)-2-[(Dimethylamino) methyl]-1-(3- methoxyphenyl)cyclohexan-1-ol hydrochloride)
Transport Hazard Class(es)	6.1
Packaging Group	III
Environmental Hazards	ADR/RID: yes. IMDG Marine pollutant: yes IATA: yes

Section 15: Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Section 16: Other Information

Additional Information	N/A
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Disclaimer

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