

Safety Data Sheet


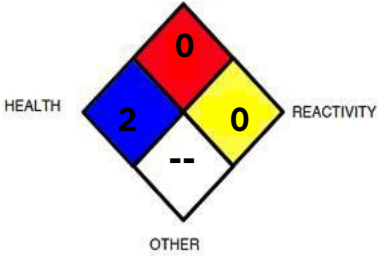
Section 1: Product & Company Identification

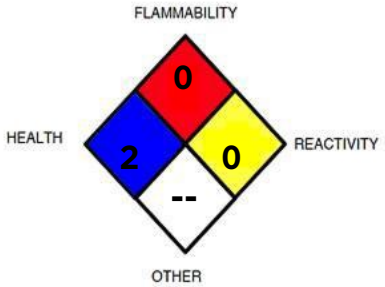
Product Name:	Apomorphine HCl
Product #:	A-2933
Synonyms:	Apomorphine Hydrochloride hemihydrate; R-(-)-Apomorphine hydrochloride hemihydrate; (R)-5,6,6a,7-Tetrahydro-6- methyl-4H-dibenzo[de,g]quinoline-10,11-diol, hydrochloride
Supplier:	AG Scientific Holdings, LLC 9950 Scripps Lake Drive, Suite 104 San Diego, CA 92131 Tele# + 858-452-9925
Emergency Tele#:	ChemTel, Tele# in USA 1-800-255-3924, International 1-813-248-0585

Section 2: Composition / Information on Ingredients

Component	CAS#	EC #	% Composition
Apomorphine HCl	41372-20-7	206-243-0	100

Section 3: Hazards Identification

Symbols	
HMIS Classification	<p style="text-align: center;">FLAMMABILITY</p>  <p style="text-align: center;">OTHER</p>

NFPA Classification	
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Section 4: First Aid Measures

General Overview:	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
Inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Skin:	Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.
Eyes:	Flush eyes with water as a precaution.
Ingestion:	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
	See section 11 for more detailed information on health effects & symptoms

SECTION 5: Fire Fighting Measures

Flammability of the product:	No data available
Extinguishing Media:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Hazardous thermal (de)composition products:	Carbon oxides, Nitrogen oxides (NO _x), Hydrogen chloride gas
Special Fire Fighting Procedures:	Wear self-contained breathing apparatus for firefighting if necessary.
Flash Point:	No data available

Section 6: Accidental Release Measures




Personal Precautions:	Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
Environmental Precautions:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods for Clean-up:	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
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SECTION 7: Handling & Storage

Storage:	Keep container tightly closed in a dry and well-ventilated place. Store under inert gas. Light sensitive. Air-, heat-, and moisture-sensitive. Storage class (TRGS 510): 6.1D: Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects. Recommended storage temperature: -20°C
Handling:	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

SECTION 8: Exposure controls / Personal Protection

Respiratory Protection:	 <p>Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).</p>
Skin and Body:	  <p>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</p>

	<p>contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.</p> <p>Full contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)</p> <p>Splash contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)</p> <p>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.</p>
Eyes:	 <p>Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN166(EU).</p>
Ventilation/Engineering Measures:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Provide appropriate exhaust ventilation at places where dust is formed.
Hygiene:	Handle in accordance with good industrial hygiene and safety practice.
Other:	N/A

SECTION 9: Physical and Chemical Properties

Appearance & Odor:	Grey powder
Formula	$C_{17}H_{17}NO_2 \cdot HCl \cdot 0.5H_2O$
Molecular Wt.	312.79
Melting Pt.	285-287°C (545-549°F)
Boiling Pt.	No data available
Density:	No data available
Vapor Pressure:	No data available

Evaporation Rate:	No data available
Vapor Density:	No data available
Solubility:	May be dissolved in water (20 mg/mL)
Flash Point:	No data available
Autoignition Temp:	No data available

SECTION 10: Stability and Reactivity

Stability:	Stable under recommended storage conditions.
Hazardous decomposition products:	Carbon oxides, Nitrogen oxides (NO _x), Hydrogen chloride gas
Materials to Avoid:	Strong oxidizing agents, strong bases, iron, and iron salts
Conditions to avoid:	Air-, heat-, and moisture-sensitive. Light.

SECTION 11: Toxicological Information

RTECS#:	N/A
ACUTE Toxicity:	Acute toxicity, Oral (Category 3), H301 LD50 Oral - Mouse - 300 mg/kg Inhalation: No data available Dermal: No data available
CHRONIC Toxicity:	Chronic health hazard
Chronic Exposure: Carcinogen: Mutagen: Teratogen: Reproductive:	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. AGGIH: No component of this product present at levels greater than or equal to 0.1% is identified as probable, potential human carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as known or anticipated human carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as known or, potential human carcinogen by OSHA. EPA: No classification on carcinogenic data is available from EPA

SECTION 12: Ecological Information

Ecotoxicity:	No data available
Mobility:	No data available
Persistence and degradability:	No data available

Bioaccumulative potential:	No data available
Other adverse effects:	No data available
Corrosivity Characteristic:	No data available
General Notes:	<p>Effects due to ingestion may include nausea and vomiting.</p> <p>To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.</p> <p>Stomach - Irregularities - Based on Human Evidence Stomach - Irregularities - Based on Human Evidence</p>

SECTION 13: Disposal Considerations

Residue Waste or Unused 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.
Contaminated Packaging:	Dispose of as unused product.

SECTION 14: Transportation Information

UN ID#:	2811
ADR / RID (LAND):	N/A
DOT regulations:	<p>UN number: 2811 Class: 6.1 Packing group: III Proper shipping name: Toxic solids, organic, n.o.s. (Apomorphine hydrochloride) Poison Inhalation Hazard: No</p>
IMDG/IMO (SEA):	<p>UN number: 2811 Class: 6.1 Packing group: III EMS-No: F-A, S-A Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (Apomorphine hydrochloride)</p>
IATA/DGR (AIR):	<p>UN number: 2811 Class: 6.1 Packing group: III Proper shipping name: Toxic solid, organic, n.o.s. (Apomorphine hydrochloride)</p>
Special Provisions:	N/A

SECTION 15: Regulatory Information

Health Phrases:	H301 Toxic if swallowed.
Risk Phrases:	N/A
Safety Phrases:	<p>P264 Wash skin thoroughly after handling. P270 Do not eat, drink, or smoke when using this product.</p>

	<p>P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.</p> <p>P321 Specific treatment (see supplemental first aid instructions on this label).</p> <p>P330 Rinse mouth.</p> <p>P405 Store locked up.</p> <p>P501 Dispose of contents/ container to an approved waste disposal plant.</p>
EU Regulations:	N/A
US Regulations:	<p>TSCA: No products listed</p> <p>California Proposition 65: No products listed</p> <p>Pennsylvania State Right to Know: Apomorphine hydrochloride (CAS 41372-20-7)</p> <p>New Jersey State Right to Know: Apomorphine hydrochloride (CAS 41372-20-7)</p>
U.S. Federal Regulations:	<p>SARA 302/304/311/312 extremely hazardous substances: No products were found</p> <p>SARA 302/304 emergency planning and notification: No products were found.</p> <p>SARA 302/304/311/312 hazardous chemicals: No products were found.</p> <p>SARA 311/312 MSDS distribution-chemical inventory-hazard identification: Acute Health Hazard, Chronic Health Hazard</p> <p>SARA 313 toxic chemicals notification and release reporting: No products were found.</p> <p>Clean Water Act (CWA) 307: No products were found.</p> <p>Clean Water Act (CWA) 311: No products were found.</p> <p>Clean Air Act (CAA) 112 accidental release prevention: No products were found.</p> <p>Clean Air Act (CAA) 112 regulated flammable substances: No products were found.</p> <p>Clean Air Act (CAA) 112 regulated toxic substances: No products were found.</p> <p>OSHA: No Products were found.</p>
WHMIS (Canada):	N/A

SECTION 16: Other Information

LIABILITY STATEMENT: *The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. AG Scientific shall not be held liable for any damages resulting from handling or from contact with the above product. AG Scientific products are for research purposes only. Not for human use or consumption.*