

## **Safety Data Sheet**

Section 1: Product & Company Identification		
Product Name:	Ambroxol Hydrochloride	
Product #:	A-2533	
Synonyms:	NA 872	
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
Ambroxol Hydrochloride	23828-92-4	242-500-3	

Section 3:	Hazards Identification
Symbols	<u>(1)</u>

#### **HMIS Rating**

Health Hazard	Chronic Health Hazard	Flammability	Physical Hazard
2		0	0

#### **NFPA Rating**

Health Hazard	Fire Hazard	Reactivity Hazard
2	0	0

Section 4: First Aid Measures		
General	Symptoms of poisoning may even occur after several hours; therefore medical	
Overview:	observation for at least 48 hours after the accident.	
Inhalation:	In case of unconsciousness place patient stably in side position for	
	transportation.	
Skin:	Immediately wash with water and soap and rinse thoroughly.	



Eyes:	Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
Ingestion:	Immediately call a doctor.
	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 fire-fighting measures that suit the environment. A solid water stream may be inefficient.	
Hazardous thermal (de)composition products:	No data available	
Special Fire Fighting Procedures:	No special measures required.	
Flash Point:	No data available	

Section 6: Accidental Release Measures		
Personal	Not required	
Precautions:		
Environmental	Do not allow to enter sewers/surface or ground water.	
Precautions:		
Methods for	Ensure adequate ventilation.	
Clean-up:		

SECTION 7:	Handling & Storage
Storage:	Recommended storage temperature: -20°C
Handling:	No special precautions are necessary if used correctly. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid prolonged or repeated exposure. Keep away from sources of ignition. Take precautionary measures against static discharge

# SECTION 8: Exposure controls / Personal Protection



Respiratory Protection:	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.
Skin and Body:	Protective gloves and lab coat.
Eyes:	Tightly sealed goggles
Ventilation/Engineering	Ensure adequate ventilation.
Measures:	
Hygiene:	Follow standard good industrial hygiene practices.
Other:	Contains no substances with occupational exposure limit values.

SECTION 9: Physical and Chemical Properties		
Appearance &	Solid. Characteristic odor.	
Odor:		
Formula	C <sub>13</sub> H <sub>18</sub> Br <sub>2</sub> N <sub>2</sub> O • HCl	
Molecular Wt.	414.6	
Melting Pt.	No data available	
Boiling Pt.	No data available	
Density:	No data available	
Vapor Pressure:	No data available	
<b>Evaporation Rate:</b>	No data available	
Vapor Density:	No data available	



Solubility:	DMF, DMSO, Ethanol
Flash Point:	No data available
Autoignition	No data available
Temp:	

SECTION 10: Stability and Reactivity	
Stability:	Stable under recommended storage conditions.
Hazardous	No decomposition if used according to specifications.
decomposition	
products:	
Materials to Avoid:	No data available
Conditions to avoid:	No data available

SECTION 11: Toxicological Information	
RTECS#:	GV8423000
ACUTE Toxicity:	Oral LD50 = 13,400 mg/kg (rat) Intraperitoneal LD50 = 380 mg/kg (rat)
	Primary irritant effect:
CHRONIC Toxicity:	N/A
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:	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.
Mobility:	No data available



Persistence and	No data available
degradability:	
Bioaccumulative	No data available
potential:	
Other adverse	No data available
effects:	
Corrosivity	No data available
Characteristic:	
General Notes:	No data available

SECTION 13: Disposal Considerations	
Residue Waste or Unused product:	Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Contaminated Packaging:	Disposal must be made according to official regulations.

SECTION 14: Transportation Information	
UN ID#:	N/A
ADR / RID (LAND):	Not regulated
DOT regulations:	Not regulated
IMDG/IMO (SEA):	Not regulated
IATA/DGR (AIR):	Not regulated
Special Provisions:	N/A

SECTION 15: Re	gulatory Information
Health Phrases:	Warning! H302 Harmful if swallowed.
	H315 Causes skin irritation. H319 Causes serious eye irritation.
	H335 May cause respiratory irritation.
Risk Phrases:	P261 Avoid breathing dust/fume/gas/mist/vapors/spray P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area.
	P280 Wear protective gloves / eye protection / face protection.
Safety Phrases:	P301+P312 If swallowed: Call a poison center/doctor if you feel unwell. P330 Rinse mouth. P302+P352 If on skin: Wash with plenty of water. P321 Specific treatment (see on this label).
	P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.



	P332+P313 If skin irritation occurs: Get medical advice/attention.
	P362+P364 Take off contaminated clothing and wash it before reuse.
	P337+P313 If eye irritation persists: Get medical advice/attention.
	P403+P233 Store in a well-ventilated place. Keep container tightly closed.
	P405 Store locked up.
	P501 Dispose of contents/container in accordance with local/regional/
	national/international regulations.
EU Regulations:	N/A
US Regulations:	TSCA: Not listed
	California Proposition 65: No products were found
U.S. Federal	SARA 302/304 emergency planning and notification: No products were
Regulations:	found.
	SARA 311/312 MSDS distribution-chemical inventory-hazard
	identification: No products were found.
	SARA 313 toxic chemicals notification and release reporting: No products
	were found.
	Clean Water Act (CWA) 307: No products were found.
	Clean Water Act (CWA) 311: No products were found.
	Clean Air Act (CAA) 112 accidental release prevention: No products were found.
	Clean Air Act (CAA) 112 regulated flammable substances: No products were found.
	Clean Air Act (CAA) 112 regulated toxic substances: No products were
	found.
	OSHA: Acute toxicity - oral (Cat. 4); Skin irritation (Cat. 2); Eye irritation
	(Cat. 2A); Specific target organ toxicity – single exposure (Cat. 3)
WHMIS (Canada):	N/A

### **SECTION 16: Other Information**

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