

Material Safety Data Sheet

ISO/DIS 11014 / 29 CFR 1910.1200 / ANSI Z400.1

Printing date 12/01/2008

Reviewed on 12/01/2008


1 Identification of substance

- **Product details**
- **Trade name:** AMPROL 128
AMPROL 20% SOLUBLE POWDER
- **Product number:** 09708, 09709
- **Manufacturer/Supplier:**
Huvepharma, Inc.
500 Westpark Drive, Suite 230
Peachtree City, GA 30269
1-877-4AMPROL (1-877-426-7765)
- **Emergency information:**
Spill Information:
CHEMTREC® 1-800-424-9300
CHEMTREC® International 1+703-527-3887
International calls 011+703-527-3887
Reverse charges.

2 Composition/Data on components

- **Chemical characterization**
- **Description:** Mixture: consisting of the following components.

· **Components:**

	Non hazardous substance		0.7%
57-50-1	sucrose, pure		76.4%
121-25-5	Amprolium Hydrochloride		20.4%
110-17-8	fumaric acid	 Xi; R 36	2.5%

3 Hazards identification

- **Hazard description:**



C Corrosive

- **Information pertaining to particular dangers for man and environment:**
R 34 Causes burns.
- **Classification system:**
The classification was made according to the latest editions of international substances lists, and from company and regulatory data.

Material Safety Data Sheet

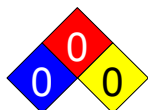
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· **NFPA ratings (scale 0 - 4)**



Health = 0
 Fire = 0
 Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = 0
 Fire = 0
 Reactivity = 0

4 First aid measures

· **General information:**

Immediately remove any clothing soiled by the product.
 Do not leave affected persons unattended if individual is exposed to large quantities of product.
 Involve doctor immediately.

· **After inhalation:**

In case of unconsciousness place patient stably in side position for transportation.
 Seek immediate medical advice.

· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

· **After swallowing:**

Rinse out mouth and then drink plenty of water.
 Immediately call a doctor.

· **After self injection**

· **Information for doctor.**

The following symptoms may occur

Asthma-like conditions may be aggravated.

Eye irritation, skin irritation, potential allergic reaction, irritation of respiratory tract and asthma-like allergic reaction.

5 Fire fighting measures

· **Suitable extinguishing agents:**

CO₂, extinguishing powder or water spray. Fight larger fires with water spray.

· **Special hazards caused by the material, its products of combustion or resulting gases:**

Fine dust particles in air may concentrate in explosive mixture. Toxic gases (organic chlorides, HCl, oxides of nitrogen, CO, CO₂) may result from exposure to fire.

· **Protective equipment:** Self-contained breathing apparatus and full protective equipment.

6 Accidental release measures

· **Person-related safety precautions:**

Keep people at a distance and stay upwind.

Wear protective equipment. Keep unprotected persons away.

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· **Measures for environmental protection:**

Inform respective authorities in case of seepage of large quantities into water source or sewage system.
 Do not allow product to reach sewage system or any water course.

· **Measures for cleaning/collecting:**

Vacuum, shovel, sweep-up all spilled materials and place in sealed container for proper disposal IAW Section XIII.

Ensure adequate ventilation.

7 Handling and storage

· **Handling:**

· **Information for safe handling:**

Avoid dust, eliminate sources of ignition in dusty conditions. Store in cool, dry place. Avoid eye and skin contact. Do not ingest. Wash thoroughly after use.

Keep containers tightly sealed.

Avoid dust generation.

Handle with care. Avoid jolting and impact.

· **Information about protection against explosions and fires:** No special measures required.

· **Storage:**

· **Requirements to be met by storerooms and receptacles:** Store only in the original container.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:**

Keep receptacle tightly sealed.

Store in the dark.

Store in a cool, dry, well ventilated place.

8 Exposure controls and personal protection

· **Components with limit values that require monitoring at the workplace:**

57-50-1 sucrose, pure

ACGIH TLV	10 mg/m ³
	A4
NIOSH REL	10*; 5** mg/m ³
	*Total dust **Respirable fraction
OSHA PEL	15*; 5** mg/m ³
	*Total dust **Respirable fraction

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Do not eat, drink, smoke or inhale.

Do not store food in the working area.

· **Breathing equipment:** If in particulate form, MSHA-NIOSH approved respirator for dust.

· **Protection of hands:** Impervious gloves to minimize skin contact.

· **Eye protection:** Safety goggles.

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· **Body protection:** Protective coveralls, long sleeves if allergic tendencies are known.

9 Physical and chemical properties

· General Information

Form: Powder
Color: Whitish
Odor: Characteristic

· Change in condition

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: Undetermined.

· **Flash point:** Not applicable.

· **Auto igniting:** Product is not self-igniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Specific gravity:** Not determined.

· Solubility in / Miscibility with

Water: Insoluble in water.

· **pH-value:** 1.7-3.2

· **Solvent content:** 0.0 %

10 Stability and reactivity

· Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

· **Dangerous reactions** No dangerous reactions known.

· Dangerous products of decomposition:

Toxic gases (organic chlorides, HCl, oxides of nitrogen, CO, CO₂) may result from exposure to fire.

11 Toxicological information

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

121-25-5 Amprolium Hydrochloride

Oral LD50 6.170 g/kg (mouse)

Dermal LD 50 20.0 g/kg (rabbit)

110-17-8 fumaric acid

Oral LD50 9300 mg/kg (rat)

Dermal LD50 500 mg/24H MLD (rabbit)

· Primary irritant effect:

· **on the skin:** No irritating effect known.

· **on the eye:** No irritating effect known.

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- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
 The product shows the following dangers according to internally approved calculation methods for preparations:
 Corrosive
 Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

12 Ecological information

- **Ecotoxological effects:**

- **Acquatic toxicity:**

121-25-5 Amprolium Hydrochloride

LC50/96 hours 110.8 ug/l (daphnia magna)

- **General notes:**

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.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

13 Disposal considerations

- **Product:**
- **Recommendation:** Dispose of in EPA approved chemical landfill.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **DOT regulations:**
- **Hazard class:** -
- **Land transport ADR/RID (cross-border):**
- **ADR/RID class:** -
- **Maritime transport IMDG:**
- **IMDG Class:** -
- **Marine pollutant:** No
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -

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15 Regulations

· **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients are listed.

· **TSCA (Toxic Substances Control Act):**

57-50-1 sucrose, pure

110-17-8 fumaric acid

· **CA Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients are listed.

· **Chemicals known to cause reproductive toxicity:**

None of the ingredients are listed.

· **Carcinogenesis potential categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**

57-50-1 sucrose, pure A4

· **MAK (German Maximum Workplace Concentration)**

None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

· **Product related hazard informations:**

The product has been classified and marked in accordance with directives on hazardous materials.

· **Hazard symbols:**

C Corrosive

· **Risk phrases:**

34 Causes burns.

· **Safety phrases:**

1/2 Keep locked up and out of the reach of children.

20 When using do not eat or drink.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

29 Do not empty into drains.

36/37 Wear suitable protective clothing and gloves.

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45 In case of accident or if you feel unwell, seek medical advice immediately.

· **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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