

Material Safety Data Sheet

Catalog Number: 153633 Revision date: 17-Feb-2004

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY INFORMATION

Catalog Number: 153633

Product name: S(+)-APOMORPHINE HYDROCHLORIDE

Supplier:

MP Biomedicals, Inc. 1263 S. Chillicothe Rd. Aurora, OH 44202 tel: 330-562-1500

Emergency telephone number: CHEMTREC: 1-800-424-9300 (1-703-527-3887)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components S(+)-APOMORPHINE HYDROCHLORIDE **CAS Number** 41035-30-7

Weight % 90-100%

ACGIH Exposure Limits: None OSHA Exposure Limits:

None

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: May cause skin irritation and/or dermatitis

Principle routes of exposure: Skin

Inhalation: May cause irritation of respiratory tract

Ingestion: May be harmful if swallowed. **Skin contact:** May cause allergic skin reaction

Eye contact: Avoid contact with eyes

Statements of hazard MAY CAUSE ALLERGIC SKIN REACTION.

Statement of Spill or Leak - ANSI Label Eliminate all ignition sources. Absorb and/or contain spill with inert materials (e.g., sand, vermiculite). Then place in appropriate container. For large spills, use water spray to disperse vapors, flush spill area. Prevent runoff from entering waterways or sewers.

4. FIRST AID MEASURES

General advice: In the case of accident or if you feel unwell, seek medical advice immediately (show the label where

possible).

Inhalation: Move to fresh air. Call a physician immediately.

Skin contact: Rinse immediately with plenty of water and seek medical advice

Ingestion: Do not induce vomiting without medical advice.

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

Protection of first-aiders: No information available

Medical conditions aggravated by exposure: None known

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5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Use dry chemical, CO2, water spray or "alcohol" foam

Specific hazards: Burning produces irritant fumes.

Unusual hazards: None known

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

Water mist may be used to cool closed containers.

Not determined Not determined

Specific methods: Flash point:

Autoignition temperature:

NFPA rating:

NFPA Health: 1
NFPA Flammability: 1
NFPA Reactivity: 0

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:Use personal protective equipment.
Environmental precautions:
Prevent product from entering drains.

Methods for cleaning up:Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Storage:

-20°C DESICCATE

STORE UNDER NITROGEN PROTECT FROM LIGHT

Handling:Use only in area provided with appropriate exhaust

ventilation.

Safe handling advice: Wear personal protective equipment.

Incompatible products:Oxidising and spontaneously flammable products

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: Ensure adequate ventilation.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection: Breathing apparatus only if aerosol or dust is formed.

Hand protection: Pvc or other plastic material gloves

Skin and body protection: Usual safety precautions while handling the product will provide adequate protection against

this potential effect.

Eye protection: Safety glasses with side-shields

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.



9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid

Formula: C17H17NO2 • HCI

Molecular weight: 303.7

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Melting point/range:

Boiling point/range:

No data available at this time.

No Data available at this time.

Density:No data availableVapor pressure:No data availableEvaporation rate:No data availableVapor density:No data availableSolubility (in water):No data availableFlash point:Not determinedAutoignition temperature:Not determined

10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.

Polymerization:None under normal processing.

Hazardous decomposition products: Chloride/Hydrochloric acid, Nitrogen oxides

(NOx)/ammonia/CN-Strong oxidising agents

Conditions to avoid: Exposure to air or moisture over prolonged periods.

11. TOXICOLOGICAL INFORMATION

Product Information Acute toxicity

S(+)-APOMORPHINE

HYDROCHLORIDE

Materials to avoid:

Components RTECS Number: Selected LD50s and LC50s

S(+)-APOMORPHINE Not Available Not Determined HYDROCHLORIDE

Chronic toxicity: Chronic exposure may cause nausea and vomiting, higher exposure causes

unconsciousness.

Local effects: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and

vomiting.

Specific effects: May include moderate to severe erythema (redness) and moderate edema (raised

skin), nausea, vomiting, headache.

Primary irritation:No data is available on the product itself.Carcinogenic effects:No data is available on the product itself.Mutagenic effects:No data is available on the product itself.Reproductive toxicity:No data is available on the product itself.

12. ECOLOGICAL INFORMATION

Mobility:No data availableBioaccumulation:No data availableEcotoxicity effects:No data available

Aquatic toxicity: May cause long-term adverse effects in the aquatic

environment.

Components U.S. DOT - Appendix B -

Marine Pollutan

Not Listed

U.S. DOT - Appendix B -

United Kingdom - The Red

Severe Marine Pollutants List:
Not Listed Not Listed

Data

Components Germany VCI (WGK) World Health Organization Ecotoxicity - Fish Species

(WHO) - Drinking Water

S(+)-APOMORPHINE Not Listed Not Listed Not Listed HYDROCHLORIDE

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Components **Ecotoxicity - Freshwater**

Algae Data

Ecotoxicity - Microtox Data Ecotoxicity - Water Flea

Data

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Not Listed Not Listed

Not Listed

Components **EPA - ATSDR Priority List EPA - HPV Challenge California - Priority Toxic**

> **Program Chemical List Pollutants**

S(+)-APOMORPHINE HYDROCHLORIDE

Not Listed

Not Listed Not Listed

Components California - Priority Toxic Pollutants **California - Priority Toxic Pollutants**

S(+)-APOMORPHINE HYDROCHLORIDE

Not Listed

Not Listed

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products: Waste disposal must be in accordance with appropriate

> Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Residue from fires extinguished

with this material may be hazardous.

Contaminated packaging: Do not re-use empty containers

14. TRANSPORT INFORMATION

UN/Id No: Not regulated

DOT:

Proper shipping name: Not Regulated

Components U.S. DOT - Appendix A Table 1 - Reportable Quantities

S(+)-APOMORPHINE

HYDROCHLORIDE

Not Listed

TDG (Canada):

WHMIS hazard class: Non-controlled

IMDG/IMO

IMDG - Hazard Classifications Not Applicable

Components U.S. DOT - Appendix B - Marine Pollutan U.S. DOT - Appendix B - Severe Marine

Pollutants

S(+)-APOMORPHINE Not Listed Not Listed

HYDROCHLORIDE

IMO-labels:

15. REGULATORY INFORMATION

International Inventories

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Components

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Inventory - United States TSCA - Sect. 8(b)

Canada DSL Inventory List
Not Listed

U.S. regulations:

Components

California Proposition 65 Massachusetts Right to New Jersey Right to Pennsylvania Right to Know List:

- Know List: Know List: List:

S(+)-APOMORPHINE HYDROCHLORIDE Not Listed Not Listed Not Listed Not Listed

Components Florida substance List: Rhode Island Right to Illinois - Toxic Air Connecticut - Hazardous Air

Know List: Contaminants Pollutants S(+)-APOMORPHINE Not Listed Not Listed Not Listed Not Listed

S(+)-APOMORPHINE HYDROCHLORIDE

Components SARA 313 Emission CERCLA/SARA - Section NTP: IARC:

reporting/Toxic Release 302 Extremely Haz of Chemicals

S(+)-APOMORPHINE Not Listed None None

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SARA 313 Notification: The above is your notification as to the SARA 313 listing for this product(s) pursuant

to Section 313 of Title III of the Superfund Ammendments and Reauthorization Act of

1986 and 40 CFR Part 372.

If you are unsure if you are subject to the reporting requirements of Section 313, or need more information, please call the EPA Emergency Planning and Community

Right-To-Know Information Hotline: (800) 535-0202 or (202) 479-2499 (in

Washington, DC or Alaska).

State Notification: The above information is your notice as to the Right-to-Know listings of the stated

product(s). Individual states will list chemicals for a variety of reasons including, but not limited to, the compounds toxicity; carcinogenic, tumorigenic and/or reproductive

hazards; and the compounds environmental impact if accidentally released.

16. OTHER INFORMATION

Prepared by: Health & Safety

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End of Safety Data Sheet

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