Material Safety Data Sheet

SECTION 1 – IDENTIFICATION OF SUBSTANCE/PREPARATION AND COMPANY

Product Name: Iontopak – Iontophoresis Solution Kit – Pilocarpine Nitrate
Product Number: CFA200
Manufacturer/Supplier: Advanced Instruments, Inc.
Two Technology Way
Norwood, MA 02062
1-781-320-9000

Origin: USA

Date of Issue: 2013-04-09

Chemical Identification: Pilocarpine Nitrate ($C_{11}H_{16}N_2O_2 \cdot HNO_3$)
Intended Use: Reconstituted solution for use with the Cystic Fibrosis Analyzer (Model CFA).

SECTION 2 – HAZARDS IDENTIFICATION

Health
Routes of Entry:
Inhalation, ingestions, or skin contact.
Health Hazards:
Ingestion is harmful and may be fatal. Chronic exposure may cause liver and kidney damage. Irritating on contact with skin, eyes, or mucous membranes. Skin absorption may be harmful.
Carcinogenicity:
The material is not listed (IARC, NTP, or OSHA) as cancer causing agent.
Symptoms of Exposure:
Can cause headache, nausea, vomiting, dizziness, gastro-intestinal irritation, and severe dehydration.
Medical Conditions Aggravated by Exposure:
None indicated

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Component:
Pilocarpine Nitrate
CAS #:
148-72-1
Synonyms:
Pilofrin
Percent:
100%

SECTION 4 – FIRST AID MEASURES

Emergency and First Aid Procedures:
SEEK MEDICAL ASSISTANCE IN ALL CASES OF OVEREXPOSURE.
Eyes and Skin:
Immediately flush thoroughly with water for at least 15 minutes.
Inhalation:
Remove to fresh air; give artificial respiration if breathing has stopped.
Ingestion:
If conscious, drink water and induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person.

SECTION 5 – FIRE FIGHTING MEASURES

Flash Point (ºF):
Not applicable
Flammable Limits:
LEL: Not applicable
UEL: Not applicable

Extinguishing Media:
Carbon dioxide, dry chemical powder, appropriate foam, or water spray
Fire Fighting Procedures:
Wear self-contained breathing apparatus and protective clothing.
Fire and Explosion Hazards:
Decomposes at melting point.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spill Response:
Evacuate the area of all unnecessary personnel. Wear suitable protective equipment listed under Section 8, Exposure Controls/Personal Protection. Eliminate any ignition sources until the area is determined to be free from explosion or fire hazards. Contain the release and eliminate its source, if it can be done without risk. Avoid raising dust. Clean up and place in closed container for proper disposal as described under, Section 13, Disposal Considerations. Comply with local, state, and country regulations on reporting releases. Refer to Section 15, Regulatory Information, for regulatory data.

SECTION 7 – HANDLING AND STORAGE

Keep container tightly closed. Store at controlled room temperature. Do not breathe dust. Do not get in eyes, on skin, or on clothing.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation, Respiratory Protection, Protective Clothing, Eye Protection:
Material should be handled or transferred in an approved fume hood or with adequate ventilation. Protective gloves must be worn to prevent skin contact (Neoprene or equivalent). Safety glasses with side shields must be worn at all times.
Work/Hygienic Practices:
Wash hands thoroughly after handling. Do not take internally. Eyewash and safety equipment should be readily available.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance:
White crystals

Boiling Point:
Not applicable.

Melting Point (ºC):
173.5 - 174ºC (345ºF) Decomposes

Evaporation Rate (BuAc = 1):
No information found.

Vapor Pressure (mm Hg):
No information found.

Vapor Density (AIR = 1):
No information found.

Solubility in Water (%):
15g in 100g of water

SECTION 10 – STABILITY AND REACTIVITY

Stability:
Stable
Conditions to Avoid:
Heat, flame, sources of ignition, light, and incompatibilities
Materials to Avoid:
Bases, oxidizers, mercury, iodine, and silver nitrate
Hazardous Decomposition:
Carbon monoxide, carbon dioxide, and nitrogen oxides
Hazardous Polymerization:
Does not occur.

SECTION 11 – TOXICOLOGICAL INFORMATION

Symptoms of Exposure:
Ingestion is harmful and may be fatal. Can cause headache, nausea, vomiting, dizziness, gastro-intestinal irritation, and severe dehydration. Chronic exposure may cause liver and kidney damage. Irritating on contact with skin, eyes, or mucous membranes. Skin absorption may be harmful.
Medical Conditions Aggravated by Exposure:
None indicated.
Routes of Entry:
Inhalation, ingestion, or skin contact.
Carcinogenicity:
This material is not listed (IARC, NTP, OSHA) as a cancer-causing agent.
Toxicity Data:
orl-rat LD50: 911 mg/kg
Toxicological Findings:
Test on laboratory animals indicate material may produce adverse reproductive effects. Cited in Registry of Toxic Effects of Chemical Substances (RTECS).

SECTION 12 – ECOLOGICAL INFORMATION

No information found.

SECTION 13 – DISPOSAL CONSIDERATIONS

EPA Waste Numbers:
D001
Treatment:
Specified Technology – Contact your local permitted waste disposal site (TSD) for permissible treatment sites. ALWAYS CONTACT A PERMITTED WASTE DISPOSAL SITE (TSD) TO ASSURE COMPLIANCE WITH ALL CURRENT LOCAL, STATE, AND COUNTRY REGULATIONS.

SECTION 14 – TRANSPORT INFORMATION

DOT Proper Shipping Name:
Alkaloid Salt, Solid, Pilocarpine Nitrate
DOT ID Number:
UN1544

SECTION 15 – REGULATORY INFORMATION

European Information:
Very toxic
R 22
Harmful if swallowed.
S 22
Do not breathe dust.
S 24/25
Avoid contact with skin and eyes.
Reviews, Standards, and Regulations:
OEL=MAK
NOHS 1974: HZD 81934; NIS 2; TNF 42; NOS 4; TNE 980
NOES 1983: HZD 81934; NIS 1; TNF 22; TNE 1525; TFE 1273
EPA TSCA Section 8 (B) Chemical Inventory

SECTION 16 – OTHER INFORMATION

Comments:
None
NFPA Hazard Ratings:

Health:	3
Flammability:	1
Reactivity:	0
Special Hazards:	Not available