

Material Safety Data Sheet

SECTION 1 – IDENTIFICATION OF SUBSTANCE/PREPARATION AND COMPANY

Product Name: Spiral Biotech – Disinfectant
Product Number: AP416
Manufacturer/Supplier: Advanced Instruments, Inc.
Two Technology Way
Norwood, MA 02062
1-781-320-9000
Origin: USA
Date of Issue: 2009-11-13

Chemical Identification(s): Sodium hypochlorite and Sodium hydroxide
Intended Use: The Disinfectant is used to clean the tubing/syringe system, of the Autoplate, between plating different organisms.

SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

Component:
Sodium hypochlorite
CAS #:
7681-52-9
Percent:
5.25 - 6.0 %

Component:
Sodium hydroxide
CAS #:
1310-73-2
Percent:
<1%

SECTION 3 – HAZARDS IDENTIFICATION

Health

Routes of Entry:

Inhalation, ingestion, or eye/skin contact.

Health Hazards:

Harmful if swallowed. Irritating on contact with skin, eyes, mucous membranes, or upper respiratory tract

Carcinogenicity:

None indicated

Symptoms of Exposure:

None indicated

Medical Conditions Aggravated by Exposure:

Heart conditions or chronic respiratory problems such as asthma, emphysema, chronic bronchitis or obstructive lung disease

SECTION 4 – FIRST AID MEASURES

Emergency and First Aid Procedures:

SEEK MEDICAL ASSISTANCE IN ALL CASES OF OVEREXPOSURE.

Eyes:

In case of contact, immediately flush eyes with copious amounts of water for at least 15-20 minutes.

Skin:

In case of contact, immediately wash skin with soap and copious amounts of water.

Inhalation:

If inhaled, remove to fresh air.

Ingestion:

If conscious, drink water. Do not induce vomiting.

SECTION 5 – FIRE FIGHTING MEASURES**Flash Point (°F):**

None

Flammable Limits:

LEL: Not available

UEL: Not available

Extinguishing Media:

Not available

Fire Fighting Procedures:

None

Fire and Explosion Hazards:

None. Not flammable or explosive. Product does not ignite when exposed to open flame.

SECTION 6 – ACCIDENTAL RELEASE MEASURES**Spill Response:**

Control spill. 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. 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. Do not get in eyes, on skin, or on clothing. Ensure good ventilation/exhaustion at the workplace. Store away from oxidizing agents. Do not store near alkaline substances.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION**Ventilation, Respiratory Protection, Protective Clothing, Eye Protection:**

Adequate ventilation is required. 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:**

Light yellow liquid

Boiling Point:

100 °C

Specific Gravity (H₂O = 1):

~1.1 at 21°C

Melting Point (°C):

Not available

Evaporation Rate (BuAc = 1):

Not available

Vapor Pressure (mm Hg):

< 1 mm Hg

Vapor Density (AIR = 1):

Not available

Volatility:

Not available

Solubility in Water (%):

Soluble

SECTION 10 – STABILITY AND REACTIVITY

Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Incompatible materials, metals, excess heat, combustible materials, organic materials, oxidizers, amines, bases.

Materials to Avoid:

Hazardous Decomposition:

Nitrogen oxides (No_x), ammonia, cyanuric acid.

Hazardous Polymerization:

Does not occur.

Additional Information:

None

SECTION 11 – TOXICOLOGICAL INFORMATION

Symptoms of Exposure:

Irritating on contact with skin, eyes, mucous membranes, or upper respiratory tract. Harmful if swallowed.

Medical Conditions Aggravated by Exposure:

None indicated.

Routes of Entry:

Inhalation, ingestion, or skin contact.

Carcinogenicity:

None indicated

Toxicity Data:

Not available

Toxicological Findings:

Not available

SECTION 12 – ECOLOGICAL INFORMATION

Ecological effects:

Not available

General notes:

Not available

SECTION 13 – DISPOSAL CONSIDERATIONS

EPA Waste Numbers:

5813-50

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.

Other:

Abfallschlüsselnummern in Austria (ÖNORM S2100): 59305

SECTION 14 – TRANSPORTATION INFORMATION

DOT Proper Shipping Name:

Not restricted

DOT ID Number:

Not available

SECTION 15 – REGULATORY INFORMATION

European Information:

Not available

Reviews, Standards, and Regulations:

Not available

SECTION 16 – OTHER INFORMATION

Comments:

None

NFPA Hazard Ratings:

Health: 2
Flammability: 0
Reactivity: 0
Special Hazards: Not available

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