# Material Safety Data Sheet

## SECTION 1 – IDENTIFICATION OF SUBSTANCE/PREPARATION AND COMPANY

**Product Name:** DAPI 1 Liter Staining Concentrate
**Product Number:** S000070010
**Manufacturer/Supplier:** Advanced Instruments, Inc.
Two Technology Way
Norwood, MA 02062
1-781-320-9000

**Date of Issue:** 2013-04-09

**Chemical Identification(s):** Triton X-100, Tris Hydrochloride, Tris Base, Ethylenediaminetetraacetic acid disodium salt dihydrate, Ethylenediaminetetraacetic acid tetrasodium salt tetrahydrate, 4', 6-Diamidine-2'-phenylindole dihydrochloride (DAPI)

**Intended Use:** A one liter concentrate of DAPI Staining Concentrate for use on the SomaScope and CombiScope (fluorescent flow cytometry).

## SECTION 2 – HAZARDS IDENTIFICATION

**Health**
**Routes of Entry:**
Inhalation, ingestion, or skin contact.
**Health Hazards:**
Adverse health effects are not expected from the recommended use of this product. It can be harmful by all routes of entry. This product may be irritating to the eyes, skin, and upper respiratory tract.
**Carcinogenicity:**
N/A
**Symptoms of Exposure:**
N/A
**Medical Conditions Aggravated by Exposure:**
None Indicated

## SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

**Component:**
4', 6-Diamidine-2-phenylindole dihydrochloride
**CAS #:**
47165-04-8
**Synonyms:**
DAPI
**Percent:**
<0.01%

**Component:**
Ethylenediaminetetraacetic acid tetra-sodium salt tetra-hydrate
**CAS #:**
13235-36-4
**Synonyms:**
N/A
**Percent:**
N/A

**Component:**
Ethylenediaminetetraacetic acid disodium salt dihydrate
**CAS #:**
6381-92-6
**Synonyms:**
N/A
**Percent:**
N/A

**Component:**
Tris(hydroxymethyl)aminomethane hydrochloride
**CAS #:**
1185-53-1
**Synonyms:**
Tris HCl
**Percent:**
N/A

**Component:**
2-Amino-2-(hydroxymethyl)-1,3-propanediol
**CAS #:**
77-86-1
**Synonyms:**
Tris Base
**Percent:**
N/A

**Component:**
4-(1,1,3,3-Tetramethylbutyl)phenyl-polyethylene glycol
**CAS #:**
9002-93-1
**Synonyms:**
Triton ® X-100
**Percent:**
N/A

## SECTION 4 – FIRST AID MEASURES

**Emergency and First Aid Procedures:**
Get medical assistance for all cases of overexposure.
**Eyes:**
In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.
**Skin:**
In case of contact, immediately wash skin with soap and copious amounts of water.
**Inhalation:**
If breathing becomes difficult, remove to fresh air.
**Ingestion:**
No adverse effects are reasonably anticipated; however, if any symptoms occur, keep victim warm and calm, seek medical attention.

## SECTION 5 – FIRE FIGHTING MEASURES

**Flash Point (°F):**
>200 C
**Flammable Limits:**
LEL: N/A
UEL: N/A
**Extinguishing Media:**
Water spray, carbon dioxide, dry chemical powder, or appropriate foam
**Fire Fighting Procedures:**
Wear self-contained breathing apparatus and protective clothing.
**Fire and Explosion Hazards:**
N/A

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

**Spill Response:**
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. Store at 2-8C. Do not get in eyes, on skin, or on clothing.

## 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:**

Clear, colorless liquid

**Boiling Point:**

N/A

**Specific Gravity ($H_2O$ = 1):**

N/A

**Melting Point (ºC):**

N/A

**Evaporation Rate (BuAc = 1):**

N/A

**Vapor Pressure (mm Hg):**

N/A

**Vapor Density (AIR = 1):**

N/A

**Volatility:**

N/A

**Solubility in Water (%):**

Soluble

## SECTION 10 – STABILITY AND REACTIVITY

**Stability:**
Stable
**Conditions to Avoid:**
Excess heat, flame or pressure
**Materials to Avoid:**
N/A
**Hazardous Decomposition:**
N/A
**Hazardous Polymerization:**
Does not occur.

## SECTION 11 – TOXICOLOGICAL INFORMATION

**Symptoms of Exposure:**
N/A
**Medical Conditions Aggravated by Exposure:**
None indicated.
**Routes of Entry:**
Inhalation, ingestion, or skin contact.

**Carcinogenicity:**
N/A
**Toxicity Data:**
N/A

**Toxicological Findings:**
N/A

## SECTION 12 – ECOLOGICAL INFORMATION

Data not available

## SECTION 13 – DISPOSAL CONSIDERATIONS

**EPA Waste Numbers:**
N/A
**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 – TRANSPORTATION INFORMATION

**DOT Proper Shipping Name:**
N/A

**DOT ID Number:**
N/A

## SECTION 15 – REGULATORY INFORMATION

**European Information:**
N/A
**Reviews, Standards, and Regulations:**
N/A

## SECTION 16 – OTHER INFORMATION

**Comments:**
None
**NFPA Hazard Ratings:**

| | |
|---|---|
| Health: | N/A |
| Flammability: | N/A |
| Reactivity: | N/A |
| Special Hazards: | N/A |

**N/A:**
N/A = Not Available

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