

Material Safety Data Sheet

SECTION 1 – IDENTIFICATION OF SUBSTANCE/PREPARATION AND COMPANY

Product Name: Fluorophos[®] Calibrator Set
Product Number: FLA250
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(s): Fluorescent Emitter Yellow (FEY), Dimethylsulfoxide (DMSO), Diethanolamine, and Sodium Azide

Intended Use: The Fluorophos[®] Calibrator Set is used to maintain instrument accuracy. The Fluorophos[®] Calibrator Set should be used to calibrate the Advanced Fluorometer when the fluorometer is initially installed, for each different product type that is analyzed, whenever service procedures may have affected or changed the stored calibration parameters, when starting to use a new lot of calibrators, and when control values such as PhosphaCheck[®] Pasteurization Controls indicate unacceptable results.

SECTION 2 – HAZARDS IDENTIFICATION

Health

Routes of Entry:

Inhalation, ingestion, or skin contact.

Health Hazards:

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

Carcinogenicity:

Not available

Symptoms of Exposure:

Irritation to the respiratory tract and mucous membrane. Eye and skin contact may cause irritation and redness.

Medical Conditions Aggravated by Exposure:

None Indicated

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Component:

Fluorescent Emitter Yellow (FEY)

CAS #:

Not available

Synonyms:

FEY

Percent:

< 0.05%

Component:

Dimethylsulfoxide (DMSO)

CAS #:

67-68-5

Synonyms:

DMSO

Percent:

< 0.05%

Component:

Diethanolamine

CAS #:

111-42-2

Synonyms:

Bis(2-hydroxyethyl)amine, DEA

Percent:
< 25.0%

Component:
Sodium Azide
CAS #:
26628-22-8
Synonyms:
Azide, Azium, Smite
Percent:
< 0.05%

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 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 and induce vomiting immediately as directed by medical personnel.

SECTION 5 – FIRE FIGHTING MEASURES

Flash Point (°F):

Not available

Flammable Limits:

LEL: Not available

UEL: Not available

Extinguishing Media:

Carbon dioxide, dry chemical, water fog, or alcohol type foam.

Fire Fighting Procedures:

Wear self-contained breathing apparatus and protective clothing.

Fire and Explosion Hazards:

Not considered a fire or explosion hazard.

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. Do not get in eyes, on skin, or on clothing. Ensure good ventilation/exhaustion at the workplace. Prevent formation of dust. Store away from oxidizing agents.

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 liquid

Boiling Point:

Not available

Specific Gravity (H₂O = 1):

Not available

Melting Point (°C):

Not available

Evaporation Rate (BuAc = 1):

Not available

Vapor Pressure (mm Hg):

Not available

Vapor Density (AIR = 1):

Not available

Volatility:

Not available

Solubility in Water (%):

Not available

Danger of Explosion:

Product does not present an explosion hazard.

SECTION 10 – STABILITY AND REACTIVITY

Stability:

Stable

Conditions to Avoid:

Not available

Materials to Avoid:

Strong acids and oxidizing agents.

Hazardous Decomposition:

Nitrogen oxides (No_x).

Hazardous Polymerization:

Does not occur.

Additional Information:

Not available

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:

Not available

Toxicity Data:

Not available

Toxicological Findings:

Not available

SECTION 12 – ECOLOGICAL INFORMATION

Ecological effects:

The ecological effects have not been thoroughly investigated, but currently none have been identified.

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.

SECTION 13 – DISPOSAL CONSIDERATIONS

EPA Waste Numbers:

Not available

Treatment:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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 regulated

DOT ID Number:

Not regulated

SECTION 15 – REGULATORY INFORMATION

Hazard symbols:

Not available

Hazard-determining components of labeling:

Not available

Risk phrases:

Not available

Safety phrases:

Not available

Water hazard class:

Not available

SECTION 16 – OTHER INFORMATION

Comments:

None

NFPA Hazard Ratings:

Health: Not available

Flammability: Not available

Reactivity: Not available

Special Hazards: Not available

Advanced Instruments, Inc. provides the information contained herein in good faith, but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. Advanced Instruments will not be responsible for damages resulting from use of or reliance upon this information.