MSDS MATERIAL SAFETY DATA SHEET

SECTION 1. Chemical Product and Company Identification
DAF-2 diacetate

Product Code: 85165 , **Reference #:** 205391-02-2
Product Name: DAF-2 diacetate
CAS Number: 205391-02-2
Synonyms
2-(3,6-diacetyloxy-4,5-diamino-9H-xanthen-9-yl)-benzoic acid;
4,5-Diaminofluorescein diacetate

Manufacturer Name and Address:		**Telephone Numbers:**	**Dates:**
Calbiochem-Novabiochem Corp.			Date Entered: 07/21/2000
10394 Pacific Center Court			Revision: 12/06/2003
San Diego, CA. 92121	Information:	(800)854-3417	Printed: 12/06/2003
USA			

SECTION 2. Composition/Information on Ingredients
DAF-2 diacetate

Hazardous Components (Specific Chemical Identity/Common Name)

Name:	DAF-2 diacetate		
CAS #:	205391-02-2	**Percentage:**	0.025 %
OSHA PEL:	No data.	**ACGIH TLV:**	No data.
Name:	Dimethyl sulfoxide, anhydrous		
CAS #:	67-68-5	**Percentage:**	99.975 %
OSHA PEL:	No data.	**ACGIH TLV:**	No data.

SECTION 3. Hazards Identification
DAF-2 diacetate

Emergency Overview
No data available.
Route(s) of Entry: Inhalation? No , Skin? Yes , Eyes? Yes , Ingestion? Yes , Other: Injection
Potential Health Effects (Acute and Chronic)
Females of childbearing potential should avoid this chemical.
Material may be irritating to the mucous membranes and upper respiratory tract.
May be harmful by inhalation, ingestion, or skin absorption.
May cause eye, skin, or respiratory system irritation.
Readily absorbed through the skin.
The toxicological properties of this compound have not been fully evaluated.
Carcinogeniticy: NTP? No , IARC Monographs? No , OSHA Regulated? No

Carcinogenicity/Other Information
No data available.
Signs and Symptoms Of Exposure
Irritating to the skin, eyes, nose, throat, and respiratory tract.

SECTION 4. First Aid Measures
DAF-2 diacetate

Emergency and First Aid Procedures
If inhaled remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.
If swallowed, wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomitting unless directed to do so by medical personnel.
In case of contact with eyes, hold eyelids apart and flush eyes with plenty of water. After initial flushings, remove any contact lenses and continue flushing for at least 20 minutes. Have eyes examined and tested by medical personnel.
In case of skin contact, immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.
Note to Physician
No data available.
Medical Conditions Generally Aggravated By Exposure
No data available.

SECTION 5. Fire Fighting Measures
DAF-2 diacetate

Flash Pt: 185.00 F **Method Used:** See note below
Explosive Limits: LEL: 3.5% UEL: 42%
Autoignition Pt: 573.00 F **Extinguishing Media**
Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray when fighting fires involving this material.
Fire Fighting Instructions
As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.
Note: combustible as diluted in dimethyl sulfoxide
Flammable Properties and Hazards
Can release vapors that form explosive mixtures at temperatures at or above the flashpoint. Those vapors include formaldehyde, methyl mercaptan, and sulfur dioxide.
Combustible liquid.
Container explosion may occur under fire conditions.
Emits toxic fumes under fire conditions.
May cause exothermic reaction when combined with certain chemicals.
Reactive with other acids.
Upon mixing with potassium permanganate it will flash instantaneously.
Vapors can travel to a source of ignition and flash back.
Hazardous Combustion Products
carbon dioxide
carbon monoxide
formaldehyde
methyl mercaptan
sulfur dioxide
sulfur oxides

SECTION 6. Accidental Release Measures
DAF-2 diacetate

Steps To Be Taken In Case Material Is Released Or Spilled
Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

After removal, ventilate contaminated area and flush thoroughly with water.

SECTION 7. Handling and Storage
DAF-2 diacetate

Hazard Label Information:

Avoid contact with skin and eyes.	Do not reuse this container.
Use with adequate ventilation.	Wash thoroughly after handling.

Precautions To Be Taken in Handling
Avoid contact with eyes, skin, and clothing.
Do not reuse this container.
Keep away from sources of ignition.
Pregnant females should avoid exposure to this compound.
Use with adequate ventilation.
Wash thoroughly after handling.
Precautions To Be Taken in Storing
Store at correct temperature.
Other Precautions
No data available.
Work/Hygienic/Maintenance Practices
Do not take internally.
Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
Wash thoroughly after handling.

SECTION 8. Exposure Controls/Personal Protection
DAF-2 diacetate

Protective Equipment Summary - Hazard Label Information

Eye wash station in work area	Lab coat	Latex disposable gloves
Safety glasses	Safety shower in work area	Vent Hood

Respiratory Equipment (Specify Type)
No data available.
Eye Protection
Safety glasses
Protective Gloves
Latex disposable gloves
Other Protective Clothing
Lab coat
Engineering Controls (Ventilation etc.)
Good general ventilation should be sufficient to control airborne levels.

SECTION 9. Physical and Chemical Properties
DAF-2 diacetate

Physical States:	[ ] Gas , [X] Liquid , [ ] Solid
Boiling Point:	No data.
Melting Point:	No data.
Specific Gravity (Water = 1):	No data.
Density:	No data.
Vapor Pressure (vs. Air or mm Hg):	0.42 MM_HG at 20.0 C
Vapor Density (vs. Air = 1):	No data.
Evaporation Rate (vs Butyl Acetate=1):	No data.
Solubility in Water:	No data.* at 25.0 C
Other Solubility Notes:	*sol. in DMSO
Percent Volatile:	No data.

Saturated Vapor Concentration: No data.
Viscosity: No data.
Molecular Formula: C24H18N2O7
Molecular Weight: 446.40
pH: No data.
Appearance and Odor
A clear, colorless solution

SECTION 10. Stability and Reactivity
DAF-2 diacetate

Stability: Unstable [ ] Stable [X]
Conditions To Avoid - Instability
No data available.
Incompatibility - Materials To Avoid
acid chlorides
phosphorous halides
protect from moisture
strong oxidizing agents
strong reducing agents
Hazardous Decomposition Or Byproducts
carbon dioxide
carbon monoxide
formaldehyde
methyl mercaptan
sulfur dioxide
sulfur oxides
Hazardous Polymerization: Will occur [ ] Will not occur [X]
Conditions To Avoid - Hazardous Polymerization
No data available.

SECTION 11. Toxicological Information
DAF-2 diacetate

The toxicological effects of this compound have not been thoroughly studied.
Chronic Toxicological Effects
No data available.

SECTION 12. Ecological Information
DAF-2 diacetate

Runoff from fire control or dilution water may cause pollution.

SECTION 13. Disposal Considerations
DAF-2 diacetate

Waste Disposal Method
Dispose in accordance with local, state and federal regulations.

SECTION 14. Transport Information
DAF-2 diacetate

DOT Proper Shipping Name
No data available.

Additional Transport Information
Transport in accordance with local, state, and federal regulations.

SECTION 15. Regulatory Information
DAF-2 diacetate

Regulatory information on this product is not available.

SECTION 16. Other Information
DAF-2 diacetate

For research use only, not for human or veterinary clinical use.
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