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# MATERIAL SAFETY DATA SHEET

EMERGENCY # FOR NATIONAL RESPONSE CENTER (800) 424-8802

Prepared 11/9/05

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## SECTION 1. CHEMICAL IDENTIFICATION Product Name: **Reactive Oxygen Species Detection**

**Kit Part No: 5020**; Hydroxyl radical/Peroxynitrite Detection

Components:

1. Part # 4012,HPF 5mM solution in DMF

**Kit Part No: 5021**; Hypochlorite Detection

Components:

1. Part # 4011. APF: 5mM solution in DMF
2. Part # 4012. HPF: 5mM solution in DMF

**Kit Part No: Part# 5027**; Selective Indicators for Highly Reactive Oxygen Species

Components:

1. Part# 4011. APF: 5mM solution in DMF

## Composition / Information on Ingredients

**INGREDIENT A:** HPF (3'(p- hydroxyphenyl) fluorescein 5mM solution in DMF  
APF (3'(p-aminophenyl)) fluorescein 5 mM solution in DMF

**INGREDIENT B:** *N,N*-dimethylformamide \*solvent for ingredient A

## Handling and Storage

Protect material from long-term exposure to light; may be exposed to light for short periods of time.

Store at <= 6°C; if frozen, AVOID FREEZE-THAW CYCLES.

## Other Information

**This material is not considered hazardous, or is not present above 1%, or is not a carcinogen above 0.1% as defined in 29 CFR 1910.1200, the OSHA Hazard Communication Standard. Therefore, a Material Safety Data Sheet is not required. We recommend treating all chemicals with caution.**

This material is sold for research purposes only and is not required to appear on the TSCA inventory. It is not intended for food, drug, and household, agricultural or cosmetic use. A technically qualified individual experienced in handling potentially hazardous chemicals must supervise its use. The above information is correct to the best of our knowledge. Users should make independent decisions regarding completeness of the information based on all sources available. Cell Technology shall not be held liable for any damage resulting from handling or contact with the above product.

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EMERGENCY # FOR NATIONAL RESPONSE CENTER (800) 424-8802

Prepared 11/9/05

Page 2 of 2

**SECTION 1. CHEMICAL IDENTIFICATION** Product Name: **N,N-dimethylformamide solvent for HPF and APF**

## Composition / Information on Ingredients

- **INGREDIENT: N,N-dimethylformamide solvent for HPF and APF**

Unit Size:	470 µL
Molecular Formula:	C <sub>3</sub> H <sub>7</sub> NO
Molecular Weight:	73.09
CAS Number/Name:	68-12-2 / N,N-dimethylformamide

## Hazards Identification

Emergency Overview: Harmful by inhalation. Irritating to eyes and skin. May be harmful to the unborn child. Readily absorbed through the skin. Possible carcinogen.

## Potential Health Effects

## Potential Health Effects

Inhalation:	See Emergency Overview above.
Ingestion:	See Emergency Overview above.
Skin:	See Emergency Overview above.
Eyes:	See Emergency Overview above.
Chronic Exposures:	Not determined
Target Organs:	Liver. Kidneys.

## First Aid Measures

Potentially harmful. Avoid prolonged or repeated exposure. Wash thoroughly after handling. If eye or skin contact occurs, wash affected area with water for 15 minutes and seek medical advice. If inhaled, move individual to fresh air and seek medical advice. If swallowed, seek medical advice.

## Fire Fighting Measures

Use dry chemical powder or appropriate foam extinguisher.

## Accidental Release Measures

Use appropriate protective equipment and methods to clean up spilled substances promptly. Absorb spill onto an appropriate material. Collect and dispose of all waste in accordance with applicable laws.

## Handling and Storage

Desiccation recommended. Store at  $\leq -20^{\circ}\text{C}$ .

## Exposure Controls / Personal Protection

Wear appropriate gloves, protective clothing and eyewear and follow safe laboratory practices.

ACGIH/OSHA Permissible Exposure Limit Data: PEL: 8 hour TWA 10 ppm (30 mg/m<sup>3</sup>) (skin)

## Physical and Chemical Properties

Form:	Liquid
Odor:	Not determined
Solubility in Water:	High
Specific Gravity:	0.944
pH:	Not determined
Boiling Point:	153° C
Melting Point:	-98° C
Flash Point:	136 °F
Vapor Pressure:	Not determined

## Stability and Reactivity

Thermal Decomposition: No decomposition if used according to specifications.

Dangerous Reactions: Incompatible with acid chlorides, oxidizing agents, chloroformates, reducing agents, halogens.

Dangerous Products of Decomposition: Carbon monoxide, carbon dioxide, nitrogen oxides.

## Toxicological Information

RTECS Number:	LQ2100000
Toxicity:	LD <sub>50</sub> : 2.8 g/kg, oral, rat; LD <sub>50</sub> : 4.7 g/kg, skin, rabbit; LC50: 9.4 g/m <sup>3</sup> /2H, inhalation, mouse.
Health Hazards:	Irritation Data: 100 mg, rinsed Draize, eyes, rabbit, severe; Std. Draize, skin, human, mild; Mutation Data: cytogenic analysis: 100 nmol/L, lymphocytes, human; 40 µmol/kg, intraperitoneal, mouse.
Potential Hazards:	Severe eye irritant, mutagen.
Carcinogenicity:	IARC listed: group 2B carcinogen.

## Ecological Information

Do not allow product to reach ground water, water course, or sewage system.

## Disposal Considerations

Consult local, state or national regulations for proper disposal.

## Transport Information

Hazard Class:	Flammable
Identification Number:	UN2265
Packing Group:	III
Proper Shipping Name (Technical Name):	N,N-Dimethylformamide, 3

## Regulations

US Toxic Substances Control Act (TSCA): Listed

US Other: This material contains a toxic chemical subject to the notification requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986. This law requires certain manufacturers to report on annual emissions of specified chemicals and chemical categories. Please note that if you repackage, or otherwise redistribute, this/these product(s) to industrial customers, a notice similar to this one should be sent to those customers.

EEC EINECS Number: 200-679-5

EEC Risk Statements: R 20/21 Harmful by inhalation and in contact with skin. R 36 Irritating to eyes. R 61 may cause harm to the unborn child. S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S 53 Avoid exposure - obtain special instructions before use.

Other Country Regulations: None identified

## Other Information

This material is sold for research purposes only. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. The above information is correct to the best of our knowledge. Users should make independent decisions regarding completeness of the information based on all sources available. Cell Technology shall not be held liable for any damage resulting from handling or contact with the above product.