

# IncuCyte™ Cytotox Red Reagent

**1 IDENTIFICATION** Includes product identifier; manufacturer or distributor name, address, phone number; emergency phone number; recommended use; restrictions on use.

Product code: Cat. No. 4632  
 Product name: IncuCyte™ Cytotox Red Reagent  
 Unit size: 5 µL

Manufacturer/supplier: Essen BioScience Inc.  
 300 West Morgan Road  
 Ann Arbor  
 MI 48108  
 USA

Emergency contact: +1 (734) 769-1600  
 Fax contact: +1 (734) 769-7295

*For research use only. Not intended for human or animal diagnostic or therapeutic uses.*

**2 HAZARD(S) IDENTIFICATION** Includes all hazards regarding the chemical; required label elements.

**GHS - Classification**

Signal word: WARNING  
 Health hazard: Not hazardous  
 Physical hazards: GHS Physical Hazard 1 GHS Physical Hazard Category Number  
 Flammable liquids Category 4

**Hazard Statements**

H227: Combustible liquid

**Precautionary Statements**

P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
 P280: Wear protective gloves/protective clothing/eye protection/face protection.  
 P370 + P378: In case of fire, use water/water spray/water jet/carbon dioxide/sand/foam/alcohol resistant foam/chemical powder for extinction.

**Principle routes of exposure/Potential health effects**

Eyes: Mild eye irritation.  
 Skin: Mild skin irritation. Components of the product may be absorbed into the body through the skin.

**Specific effects**

Carcinogenic effects: None.  
 Mutagenic effects: None.  
 Reproductive toxicity: None.  
 Sensitization: No sensitization responses were observed.  
 Target organ effects: No known effects under normal use conditions.

HMIS: Health Flammability Reactivity  
 1 2 0

**3 COMPOSITION/INFORMATION ON INGREDIENTS** Includes information on chemical ingredients; trade secret claims.

Chemical name	CAS-No	EINECS-No	Weight %
Dimethylsulfoxide	67-68-5	200-664-3	95-100
IncuCyte™ Cytotox Red Reagent	156312-20-8		<0.1

**4 FIRST-AID MEASURES**

**Includes important symptoms/ effects, acute, delayed; required treatment.**

- Skin contact: Wash off immediately with plenty of water. If symptoms occur, obtain medical advice.  
 Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician if necessary.  
 Ingestion: Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Do not induce vomiting without medical advice.  
 Inhalation: Move to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration.  
 Notes to physician: Treat symptomatically.

**5 FIRE-FIGHTING MEASURES**

**Lists suitable extinguishing techniques, equipment; chemical hazards from fire.**

- Suitable extinguishing media: Water spray. Carbon dioxide (CO<sub>2</sub>). Foam. Dry chemical.  
 Special protective equipment for firefighters: Wear self-contained breathing apparatus and protective suit.

**6 ACCIDENTAL RELEASE MEASURES**

**Lists emergency procedures; protective equipment; proper methods of containment and cleanup.**

- Personal precautions: ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Use personal protection equipment.  
 Methods for cleaning up: Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water.  
 Environmental precautions: Prevent further leakage or spillage if safe to do so. See Section 12 for more information.

**7 HANDLING AND STORAGE**

**Lists precautions for safe handling and storage, including incompatibilities.**

- Handling: Avoid contact with skin and eyes. Always wear recommended Personal Protective Equipment.  
 Storage: Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Do not store near combustible materials. Keep in properly labeled containers.

**8 EXPOSURE CONTROLS/ PERSONAL PROTECTION**

**Lists OSHA's Permissible Exposure Limits (PELs); ACGIH Threshold Limit Values (TLVs); and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the SDS where available as well as appropriate engineering controls; personal protective equipment (PPE).**

Chemical name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Dimethylsulfoxide	None	None	None	None
IncuCyt™ Cytotox Red Reagent	None	None	None	None

- Engineering measures: Ensure adequate ventilation, especially in confined areas.  
 Personal protective equipment: Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.  
 Respiratory protection: In case of insufficient ventilation wear suitable respiratory equipment.  
 Hand protection: Impervious gloves.  
 Eye protection: Safety glasses with side-shields.  
 Skin and body protection: Lightweight protective clothing.  
 Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.  
 Environmental exposure controls: Prevent product from entering drains.

**9 PHYSICAL AND CHEMICAL PROPERTIES** Lists the chemical's characteristics.

**General information**

Form: Liquid.  
 Appearance: No information available.  
 Odor: No data available.  
 Odor threshold: No data available.  
 Boiling point/range: °C 188 - 190 °F 370 - 374  
 Melting point/range: °C 18 - 19 °F 64.4 - 66.2  
 Flash point: °C 87 - 89 °F 188.6 - 192.2  
 Autoignition temperature: °C 214 - 216 °F 417.2 - 420.8  
 Oxidizing properties: No information available.  
 Water solubility: Miscible.  
 Upper explosion limit: 61% - 64%  
 Lower explosion limit: 2.4% - 2.8%  
 Viscosity: No data available  
 pH range: 6-8

**10 STABILITY AND REACTIVITY** Lists chemical stability and possibility of hazardous reactions.

Stability: Stable under normal conditions.  
 Materials to avoid: Strong acids. Strong oxidizing agents.  
 Hazardous decomposition products: Hazardous decomposition products formed under fire conditions. Sulphur oxides. Carbon oxides.  
 Polymerization: Hazardous polymerization does not occur.

**11 TOXICOLOGICAL INFORMATION** Includes routes of exposure; related symptoms, acute and chronic effects; numerical measures of toxicity

**Acute toxicity**

Chemical name	LD50 (oral, rat/mouse)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat/mouse)
Dimethylsulfoxide	14500 mg/kg Oral LD50	>40000 mg/kg bw	>5000 mg/l
IncuCyte™ Cytotox Red Reagent	No data available	No data available	No data available

**Principle routes of exposure/potential health effects**

Eyes: Mild eye irritation.  
 Skin: Mild skin irritation Components of the product may be absorbed into the body through the skin.  
 Inhalation: No information available.  
 Ingestion: No information available.  
 Carcinogenic effects: None.  
 Mutagenic effects: None.  
 Reproductive toxicity: None.  
 Sensitization: No sensitization responses were observed.

**12 ECOLOGICAL INFORMATION** List chemical's impact on the environment.

Ecotoxicity effects: Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.  
 Mobility: Completely soluble.  
 Biodegradation: Inherently biodegradable.  
 Bioaccumulation: Material does not bioaccumulate.

Chemical name	Freshwater Algae Data	Water Flea Data	Freshwater Fish Species Data	Microtox Data	logPow
Dimethylsulfoxide					logPow-2.03

**13 DISPOSAL CONSIDERATIONS** Dispose of in accordance with local regulations.

**14 TRANSPORT INFORMATION** IATA.

Proper shipping name: No dangerous good in sense of these transport regulations.  
 Hazard class: None.  
 Subsidiary class: None.  
 Packing group: None.  
 UN-No: None.

**15 REGULATORY INFORMATION** Lists federal and state regulations.

Component	TSCA
Dimethylsulfoxide	Listed
IncuCyte™ Cytotox Red Reagent	-

**US Federal Regulations**

SARA 313: This product is not regulated by SARA.  
 Clean air act, section 112 hazardous air pollutants (HAPs) (see 40 CFR 61): This product does not contain HAPs.

**US State Regulations**

California Proposition 65: This product does not contain chemicals listed under Proposition 65.  
 WHMIS Hazard Class: Non-controlled.

Chemical name	Massachusetts RTK	New Jersey RTK	Pennsylvania RTK	Illinois RTK	Rhode Island RTK
Dimethylsulfoxide	-	-	-	-	-
IncuCyte™ Cytotox Red Reagent	-	-	-	-	-

California Proposition 65: This product does not contain any Proposition 65 chemicals.  
 WHMIS Hazard Class: B3 - Combustible liquid.



This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

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**16 OTHER INFORMATION**

**Includes the date of preparation or last revision.**

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Date of preparation: November 19, 2015

Revision date:

Reason for revision:

***For research use only. Not intended for human or animal diagnostic or therapeutic uses.***

The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any

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**END OF SAFETY DATA SHEET**