

IncuCyte® Caspase-3/7 Green Reagent

1. IDENTIFICATION

Product code:	Catalogue Number 4440
Product name:	IncuCyte® Caspase-3/7 Green Reagent
Unit size:	20 µL, 5 mM
Manufacturer/supplier:	Essen BioScience Inc. 300 West Morgan Road Ann Arbor MI 48108 USA
Emergency contact:	+1 (734) 769-1600
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For research use only. Not intended for human or animal diagnostic or therapeutic uses.

2. HAZARD IDENTIFICATION

Classification according to Regulation (EC) No 1272/2008[CLP]				
	Skin Irritation	Eye Irritation	STOT SE	Acute Toxicity
	2	2	3	4
Classification according to Directive 1999/45/EC				
R-phrases(s)				
R36/37/38:	Irritating to eyes, respiratory system and skin.			
S-phrases(s)				
S26:	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.			
S37/39:	Wear suitable gloves and eye/face protection.			
Labeling according to Regulation (EC) No 1272/2008[CLP] Specific effects				
Hazard pictogram:				
Signal word:	WARNING			
Hazard Statements				
H227:	Combustible liquid.			
H316:	Causes mild skin irritation.			
H320:	Causes eye irritation.			
H335:	May cause respiratory irritation.			
HMIS Classification:	Health hazard	Flammability	Physical hazards	
	2	2	0	
NFPA Rating:				
Fire:	2			

Precautionary Statements	
P261:	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264:	Wash hands thoroughly after handling.
P271:	Use only outdoors or in a well-ventilated area.
P280:	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312:	IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell.
P302+P352:	IF ON SKIN: wash with plenty of soap and water.
P304+P340:	IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.
P305+P351+P338:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313:	IF SKIN IRRITATION OCCURS: Get medical advice/attention.
P362:	Take off contaminated clothing and wash before reuse.
P330:	Rinse mouth.
P337+P313:	IF EYE IRRITATION PERSISTS: Get medical advice/attention.
P403+P233:	Store in a well-ventilated place. Keep container tightly closed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No.	EC No.	Index No.	Weight %	Classification according to 67/548/EEC	Classification according to regulation (EC)No1278/2008
IncuCyte® Caspase-3/7 Green Reagent	—	—	—	<0.05%	—	—
Dimethylsulfoxide	67-68-5	200-664-3	—	>99%	R36/37/38	H315: Causes skin irritation. H319: Causes serious eye irritation. H335: May cause respiratory irritation. H302 Harmful if swallowed.

4. FIRST-AID MEASURES

General advice:	Remove affected clothing and launder before reuse.
If inhaled:	If breathed in, move person into fresh air. If not breathing, give artificial respiration and seek medical care.
In case of skin contact:	Wash off with soap and plenty of water. If irritation persists, seek medical care.
In case of eye contact:	Flush eyes with water for 15 minutes. If irritation persists, seek medical care.
If swallowed:	Do NOT induce vomiting. Rinse mouth with water. Seek medical care.
Notes to physician:	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Carbon dioxide, dry chemical extinguishers, foam extinguishers or water.
Special protective equipment for fire fighters:	Burning produces poisonous gases, sulfur oxides. Wear self contained breathing apparatus for firefighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Use personal protective equipment. Avoid breathing vapors, mist or gas. Remove all sources of ignition.
Methods and materials for containment and cleaning up:	Soak up spilled substance with inert absorbent material. Keep in suitable, closed containers for disposal.
Environmental precautions:	Do not let product enter drains.

7. HANDLING AND STORAGE

Precautions for safe handling:	Avoid contact with skin and eyes. Always wear recommended personal protective equipment.
Conditions for safe storage:	Keep in properly labeled containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters							
Substance:	Dimethylsulfoxide						
CAS no.:	67-68-5						
Country:	Australia	Austria	Belgium	Canada	Denmark	European Union	France
Limit value, 8 hours:	–	160 mg/m ³	–	–	160 mg/m ³	–	–
Limit value, short term:	–	–	–	–	320 mg/m ³	–	–
Country:	Germany	Hungary	Italy	Japan	Netherlands	Poland	South Korea
Limit value, 8 hours:	160 mg/m ³	–	–	–	–	–	–
Limit value, short term:	320 mg/m ³	–	–	–	–	–	–
Country:	Spain	Sweden	Switzerland	United Kingdom	USA-NIOSH	USA-OSHA	
Limit value, 8 hours:	–	150 mg/m ³	160 mg/m ³	–	–	–	
Limit value, short term:	–	500 mg/m ³	320 mg/m ³	–	–	–	
Personal protective equipment							
Hand protection:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.						
Respiratory protection:	In case of insufficient ventilation, wear suitable respiratory equipment.						
Eye protection:	Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).						
Hygiene measures:	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.						

9. STABILITY AND REACTIVITY

Chemical stability:	Stable under normal conditions.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	Heat, flames and sparks.
Materials to avoid:	No data available.
Hazardous decomposition products:	Hazardous decomposition products formed under fire conditions. - Carbon oxides, sulfur oxides.
Polymerization:	No data available.

10. PHYSICAL AND CHEMICAL PROPERTIES

General information:	
Chemical Name:	IncuCyte® Caspase-3/7 Green Reagent
Appearance:	Liquid.
Odor:	No data available.
Odor threshold:	No data available.
pH:	No data available.
Melting point/freezing point:	No data available.
Boiling point:	No data available.
Flash point:	No data available.
Evaporate rate:	No data available.
Flammability:	No data available.
Explosive limits:	Soluble in water.
Vapor pressure:	No data available.
Vapor density:	No data available.
Relative density:	No data available.
Solubility:	No data available.
Partition coefficient:n-octanol/water:	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.
Explosive properties:	No data available.
Oxidizing properties:	No data available.

11. ECOLOGICAL INFORMATION

Toxicity DMSO:	The LC50(96hrs) for ten species of fish range from 32500 to 43000ppm.
Persistence and degradability:	No information available.
Biodegradation:	Dimethyl sulfoxide: biodegradation: 90% (28d).
Mobility in soil:	No information available.
Results of PBT and vPvB assessment:	No information available.
Other adverse effects:	No information available.
Additional information:	No information available.

12. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations.

13. TRANSPORTATION INFORMATION

Includes information on chemical ingredients; trade secret claims.

IATA, IMDG, DOT(US):	Not dangerous good during transportation.
UN number:	None.
UN proper shipping name:	None.
Transport hazard class:	None.
Packing group:	None.
Environmental hazards:	None.
Special precaution for user:	None.

14. TOXICOLOGICAL INFORMATION

Acute toxicity			
Chemical name:	LD50 (oral, rat/mouse)	LD50 (dermal, rabbit)	LC50 (inhalation, rat/mouse)
Dimethylsulfoxide	14,500 mg/kg	> 5,000 mg/kg	4 h - 40250 ppm
CGIH:Other information on acute toxicity:	No data available.		
Skin corrosion/irritation:	No data available.		
Serious eye damage/eye irritation:	No data available.		
Respiratory or skin sensitization:	No data available.		
Germ cell mutagenicity:	Salmonella typhimurium assay (Ames test): negative (+/- activation), DMSO is used as a neutral solvent in the Ames mutagen test.		
Carcinogenicity			
IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.		
ACGIH:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.		
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.		
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.		
Reproductive toxicity:	Experiments have shown reproductive toxicity effects on laboratory animals (Dimethyl sulfoxide)		
Specific target organ toxicity - single exposure (Globally Harmonized System)			
Dimethylsulfoxide:	STOT SE category 3 (respiratory system).		
Specific target organ toxicity - repeated exposure (Globally Harmonized System)			
	No data available.		
Aspiration hazard:	May cause respiratory irritation.		
Specific target organ toxicity - repeated exposure (Globally Harmonized System)			
Inhalation:	May be harmful if inhaled. May cause respiratory tract irritation.		
Ingestion:	May be harmful if swallowed.		
Skin:	May be harmful if absorbed through skin. May cause skin irritation.		
Eyes:	May cause eye irritation.		
Additional Information			
RTECS:	PV6210000 (DMSO)		

15. REGULATORY INFORMATION

US Federal Regulations	
US Toxic Substances Control Act(TSCA):	Not listed.
SARA 302:	No chemicals were found.
SARA 313:	No chemicals were found.
SARA 311/312 hazards:	DMSO : fire hazard, chronic health hazard.
Acute health hazard:	Yes.
Chronic health hazard:	No.
Fire hazard:	Yes.
Sudden release of pressure hazard:	No.
Reactive hazard:	No.

16. REGULATORY INFORMATION

Classification according to Regulation (EC) Nr. 1272/2008

Prepared by:	Essen BioSciences, a Sartorius company
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Reason for revision:	Update reagent name.

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