

Safety Data Sheet – DAPI Counterstain

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1	Product identifier				
	Product form:	Mixture			
	Name:	DAPI Counterstain			
	Product code:	DES **** / DSS **** / DFS **** / RU-DES **** / RU-DSS **** / RU-DFS ****			
1.2	Relevant identified uses of the substance or mixture and uses advised against				
1.2.1	Relevant identified uses				
	Main use category:	Professional use			
	Use of substance/mixture:	Laboratory chemicals			
1.2.2	Uses advised against				
	No additional information available				
1.3	Details of the supplier of the safety data sheet				
	CytoCell Ltd, Oxford Gene Technology 418 Cambridge Science Park, Milton Road, Cambridge, CB4 0PZ. United Kingdom T: +44 (0) 1223 294048 F: +44 (0) 1223 294986 probes@cytoCell.com http://www.ogt.com				
1.4	Emergency telephone number				
	Country	Organisation/Company	Address	Emergency Number	Comment
	Ireland	National Poisons Information Centre, Beaumont Hospital	Beaumont Hospital Beaumont Road, 9 Dublin	+353 1 8379964	
	United Kingdom	National Poisons Information Service (NHS Direct)	www.npis.org	111 (England & Wales only) 112 (EU) 08454 24 24 24 (Scotland)	

SECTION 2: Hazards identification

2.1	Classification of the substance or mixture				
2.1.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]				
	Not classified				
2.1.2	Adverse physicochemical, human health and environmental effects				
	To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.				
2.2	Label elements				
	Labelling according to Regulation (EC) No. 1272/2008 [CLP]				
	Hazardous ingredients:	Formamide			
2.3	Other hazards				
	No additional information available				

SECTION 3: Composition/information on ingredients

3.1	Substance				
	Not applicable				

3.2	Mixture			
	Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
	glycerol substance with national workplace exposure limit(s) (BE, CZ, ES, FI, FR, GB, GR, IE, IT, PL, PT)	(CAS No) 56-81-5 (EC no) 200-289-5 (REACH-no) 01-2119471987-18-XXXX	>= 80	Not classified
	Full text of H-statements: see section 16			

SECTION 4: First aid measures

4.1	Description of first aid measures			
	First-aid measures after inhalation:	Remove person to fresh air and keep comfortable for breathing.		
	First-aid measures after skin contact:	Wash skin with plenty of water.		
	First-aid measures after eye contact:	Rinse cautiously with water as a precaution.		
	First-aid measures after ingestion:	Call a poison center or a doctor if you feel unwell.		
4.2	Most important symptoms and effects, both acute and delayed			
	No additional information available			
4.3	Indication of any immediate medical attention and special treatment needed			
	Treat symptomatically.			

SECTION 5: Firefighting measures

5.1	Extinguishing media			
	Suitable extinguishing media:	Water spray. Dry powder. Foam. Carbon dioxide.		
5.2	Special hazards arising from the substance or mixture			
	Hazardous decomposition products in case of fire:	Toxic fumes may be released.		
5.3	Advice for firefighters			
	Protection during firefighting:	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.		

SECTION 6: Accidental release measures

6.1	Personal precautions, protective equipment and emergency procedures			
6.1.1	For non-emergency personnel			
	Emergency procedures:	Ventilate spillage area.		
6.1.2	For emergency responders			
	Protective equipment:	Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".		
6.2	Environmental precautions			
	Avoid release to the environment.			
6.3	Methods and material for containment and cleaning up			
	Methods for cleaning up: Other information:	Take up liquid spill into absorbent material. Dispose of materials or solid residues at an authorised site.		
6.4	Reference to other sections			
	For further information refer to section 13.			

SECTION 7: Handling and storage

7.1	Precautions for safe handling	
	Precautions for safe handling:	Ensure good ventilation of the work station. Wear personal protective equipment.
	Hygiene measures:	Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2	Conditions for safe storage, including any incompatibilities	
	Storage conditions:	Store in a well-ventilated place. Keep cool.
7.3	Specific end use(s)	
	No additional information available	

SECTION 8: Exposure controls/personal protection

8.1	Control parameters		
	glycerol (56-81-5)		
	Belgium	Local name	Glycérine (brouillard)
	Belgium	Limit value (mg/m ³)	10 mg/m ³ (Glycérine (brouillard); Belgium; Time-weighted average exposure limit 8 h)
	Croatia	Local name	Glicerol
	Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	10 mg/m ³
	Czech Republic	Local name	Glycerol, mlha
	Czech Republic	Expoziční limity (PEL) (mg/m ³)	10 mg/m ³
	Czech Republic	Expoziční limity (PEL) (ppm)	2,4 ppm
	Czech Republic	Expoziční limity (NPK-P) (mg/m ³)	15 mg/m ³
	Czech Republic	Expoziční limity (NPK-P) (ppm)	3,7 ppm
	Estonia	Local name	Glütseriin (glütserool, 1,2,3-propaantriool)
	Estonia	OEL TWA (mg/m ³)	10 mg/m ³
	Finland	Local name	Glyseroli
	Finland	HTP-arvo (8h) (mg/m ³)	20 mg/m ³
	France	Local name	Glycérine (aérosols de)
	France	VME (mg/m ³)	10 mg/m ³ (Glycérine (aérosols de); France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
	Greece	OEL TWA (mg/m ³)	10 mg/m ³
	Ireland	Local name	Glycerol, mist
	Ireland	OEL (8 hours ref) (mg/m ³)	10 mg/m ³
	Poland	Local name	Glicerol aerozole
	Poland	NDS (mg/m ³)	10 mg/m ³
	Portugal	Local name	Glicerina, névoas
	Portugal	OEL TWA (mg/m ³)	10 mg/m ³
	Spain	Local name	Glicerina
	Spain	VLA-ED (mg/m ³)	10 mg/m ³ nieblas
	United Kingdom	Local name	Glycerol
	United Kingdom	WEL TWA (mg/m ³)	10 mg/m ³ Glycerol, mist; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
	Switzerland	Local name	Glycérine
	Switzerland	VME (mg/m ³)	50 mg/m ³
	Switzerland	VLE (mg/m ³)	100 mg/m ³
	Switzerland	Remark (CH)	4x15
	Australia	Local name	Glycerin mist
	Australia	TWA (mg/m ³)	10 mg/m ³

	Australia	Remark (AU)	(a)
	USA - ACGIH	Local name	Glycerin mist
	USA - ACGIH	Remark (ACGIH)	URT irr
8.2	Exposure controls		
	Appropriate engineering controls: Hand protection: Eye protection: Skin and body protection: Respiratory protection: Environmental exposure controls:		Ensure good ventilation of the work station. Protective gloves. Safety glasses. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1	Information on basic physical and chemical properties	
	Physical state: Appearance Colour: Odour: Odour threshold: pH: Relative evaporation rate (butylacetate=1): Melting point: Freezing point: Boiling point: Flash point: Auto-ignition temperature: Decomposition temperature: Flammability (solid, gas): Vapour pressure: Relative vapour density at 20°C: Relative density: Solubility: Log Pow: Viscosity, kinematic: Viscosity, dynamic: Explosive properties: Oxidising properties: Explosive limits:	Liquid Coloured liquid Purple Odourless No data available No data available No data available Not applicable No data available 290°C 176°C No data available No data available Not applicable No data available No data available No data available No data available No data available No data available No data available No data available No data available No data available No data available No data available No data available No data available
9.2	Other information	
	No additional information available	

SECTION 10: Stability and reactivity

10.1	Reactivity
	The product is non-reactive under normal conditions of use, storage and transport.
10.2	Chemical stability
	Stable under normal conditions.
10.3	Possibility of hazardous reactions
	No dangerous reactions known under normal conditions of use..
10.4	Conditions to avoid
	None under recommended storage and handling conditions (see section 7).
10.5	Incompatible materials
	No additional information available
10.6	Hazardous decomposition products
	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects	
Acute toxicity:	Not classified
glycerol (56-81-5)	
LD50 oral rat	27200 mg/kg (Rat; Experimental value)
LC50 inhalation rat (mg/l)	> 2,75 mg/l/4h (Rat; Experimental value)
Skin corrosion/irritation:	Not classified
Serious eye damage/irritation:	Not classified
Respiratory or skin sensitisation:	Not classified
Germ cell mutagenicity:	Not classified
Carcinogenicity:	Not classified
Reproductive toxicity:	Not classified
Specific target organ toxicity (single exposure):	Not classified
Specific target organ toxicity (repeated exposure):	Not classified
Aspiration hazard:	Not classified

SECTION 12: Ecological information

12.1 Toxicity	
Ecology - general:	The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
glycerol (56-81-5)	
LC50 fish 1	54000 mg/l (LC50; 96 h; Salmo gairdneri; Static system; Fresh water)
EC50 Daphnia 1	> 10000 mg/l (EC50; 24 h; Daphnia magna; Static system; Fresh water)
Threshold limit algae 1	> 10000 mg/l (EC0; 8 days; Scenedesmus quadricauda; Static system; Fresh water)
12.2 Persistence and degradability	
glycerol (56-81-5)	
Persistence and degradability	Readily biodegradable in water
Biochemical oxygen demand (BOD)	0,87 g O ₂ /g substance
Chemical oxygen demand (COD)	1,16 g O ₂ /g substance
ThOD	1,217 g O ₂ /g substance
BOD (% of ThOD)	0,71
12.3 Bioaccumulative potential	
glycerol (56-81-5)	
Log Pow	-1,75 (Experimental value; Equivalent or similar to OECD 107)
Bioaccumulative potential	Bioaccumulation: Not applicable.
12.4 Mobility in soil	
glycerol (56-81-5)	
Surface tension	0,0634 N/m (20 °C; 1000 g/l)
12.5 Results of PBT and vPvB assessment	
No additional information available	
12.6 Other adverse effects	
No additional information available	

SECTION 13: Disposal considerations
13.1 Waste treatment methods

Waste treatment methods: Waste disposal recommendations:	Dispose of contents/container in accordance with licensed collector's sorting instructions. Avoid release to the environment.
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SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
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14.1 UN number

Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
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14.2 UN proper shipping name

Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
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14.3 Transport hazard class(es)

Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
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14.4 Packing group

Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
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14.5 Environmental hazards

Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
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No supplementary information available

14.6 Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
15.1.1 EU-Regulations

Contains no REACH substances with Annex XVII restrictions
 Contains no substance on the REACH candidate list
 Contains no REACH Annex XIV substances

15.1.2	National regulations	
	Germany	
	VwVwS Annex reference:	Water hazard class (WGK) 1, low hazard to waters (Classification according to VwVwS, Annex 4)
	12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV:	Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)
	Netherlands	
	SZW-lijst van kankerverwekkende stoffen: SZW-lijst van mutagene stoffen: NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding: NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid: NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling:	None of the components are listed None of the components are listed None of the components are listed None of the components are listed None of the components are listed
15.2	Chemical safety assessment	
	No chemical safety assessment has been carried out	

SECTION 16: Other information

SDS EU_NSC

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.