

according to UK REACH Regulation

## **ZytoLight FISH DNA Probe**

Revision date: 01.04.2025

Product code: Z-2xxx

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

#### 1.1. Product identifier

ZytoLight FISH DNA Probe

#### Further trade names

Z-2001, Z-2002, Z-2003, Z-2004, Z-2005, Z-2006, Z-2007, Z-2008, Z-2010, Z-2013, Z-2014, Z-2015, Z-2016, Z-2018, Z-2019, Z-2033, Z-2049, Z-2050, Z-2056, Z-2057, Z-2062, Z-2063, Z-2067, Z-2069, Z-2071, Z-2072, Z-2074, Z-2075, Z-2076, Z-2077, Z-2078, Z-2079, Z-2080, Z-2081, Z-2082, Z-2083, Z-2084, Z-2085, Z-2086, Z-2087, Z-2090, Z-2091, Z-2092, Z-2093, Z-2094, Z-2095, Z-2096, Z-2097, Z-2098, Z-2100, Z-2101, Z-2102, Z-2103, Z-2105, Z-2107, Z-2108, Z-2109, Z-2110, Z-2111, Z-2112, Z-2113, Z-2114, Z-2115, Z-2116, Z-2117, Z-2118, Z-2119, Z-2120, Z-2121, Z-2122, Z-2123, Z-2124, Z-2125, Z-2127, Z-2130, Z-2131, Z-2132, Z-2133, Z-2134, Z-2135, Z-2136, Z-2137, Z-2138, Z-2139, Z-2140, Z-2141, Z-2142, Z-2143, Z-2144, Z-2145, Z-2146, Z-2148, Z-2151, Z-2152, Z-2153, Z-2154, Z-2155, Z-2156, Z-2157, Z-2158, Z-2159, Z-2160, Z-2161, Z-2162, Z-2163, Z-2164, Z-2165, Z-2167, Z-2168, Z-2169, Z-2170, Z-2171, Z-2172, Z-2173, Z-2174, Z-2175, Z-2176, Z-2177, Z-2178, Z-2179, Z-2180, Z-2181, Z-2183, Z-2184, Z-2185, Z-2186, Z-2187, Z-2188, Z-2189, Z-2190, Z-2191, Z-2192, Z-2193, Z-2194, Z-2195, Z-2196, Z-2197, Z-2198, Z-2199, Z-2200, Z-2201, Z-2202, Z-2204, Z-2205, Z-2206, Z-2207, Z-2208, Z-2209, Z-2210, Z-2211, Z-2212, Z-2213, Z-2214, Z-2215, Z-2216, Z-2265, Z-2266, Z-2267, Z-2268, Z-2270, Z-2271, Z-2273, Z-2274, Z-2275, Z-2276, Z-2277, Z-2278, Z-2280, Z-2281, Z-2282, Z-2284, Z-2285, Z-2286, Z-2287, Z-2288, Z-2289, Z-2291, Z-2294, Z-2296, Z-2297, Z-2299, Z-2300, Z-2302, Z-2304, Z-2305, Z-2307, Z-2308, Z-2310, Z-2318, Z-2319, Z-2320, Z-2322, Z-2323, Z-2324, Z-2325, Z-2326, Z-2331

# 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### Use of the substance/mixture

The product is intended for professional use.

#### 1.3. Details of the supplier of the safety data sheet

Company name:	ZytoVision GmbH	
Street:	Fischkai 1	
Place:	D-27572 Bremerhaven	
Telephone:	+49 (0) 471/4832-300	Telefax:+49 (0) 471/4832-509
E-mail:	info@zytovision.com	
Internet:	www.zytovision.com	
1.4. Emergency telephone	+49 (0) 471/4832-300 9am - 5pm (CET)	
number:		

# n

**SECTION 2: Hazards identification** 

#### 2.1. Classification of the substance or mixture

# **GB CLP Regulation**

Carc. 2; H351 Repr. 1B; H360FD STOT RE 2; H373

Full text of hazard statements: see SECTION 16.

#### 2.2. Label elements

# **GB CLP Regulation**

Hazard components for labelling Formamide Danger

Signal word:

Revision No: 16,1 - Replaces version: 15,3



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## Hazard statements

H351	Suspected of causing cancer.
H360FD	May damage fertility. May damage the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.

#### **Precautionary statements**

oouullonuly olulon	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing and eye protection/face protection.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P405	Store locked up.

### Special labelling of certain mixtures

Restricted to professional users.

Restricted to professional users.

# Labelling of packages where the contents do not exceed 125 ml

Signal word: Pictograms:



Hazard statements

H351-H360FD

Precautionary statements P201-P202-P280-P308+P313-P405

### 2.3. Other hazards

No information available.

# **SECTION 3: Composition/information on ingredients**

# 3.2. Mixtures

#### **Relevant ingredients**

CAS No	Chemical name	Chemical name				
	EC No Index No REACH No					
	Classification (GB CLP Regulation)					
75-12-7	Formamide	Formamide				
	200-842-0 616-052-00-8					
	Carc. 2, Repr. 1B, STOT RE 2; H351 H360FD H373					

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity	
	Specific Conc. Limits, M-factors and ATE			
75-12-7	200-842-0 Formamide		50 - < 55 %	
	inhalation: LC50 = >21 mg/l (vapours); dermal: LD50 = >3000 mg/kg; oral: LD50 = 5325 mg/kg			



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# **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### After inhalation

Provide fresh air. Medical treatment necessary.

#### After contact with skin

Wash with plenty of water. Immediately remove any contaminated clothing, shoes or stockings. Medical treatment necessary.

#### After contact with eyes

After eye contact: Rinse immediately carefully and thoroughly with eye-bath or water. Consult an ophthalmologist.

#### After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

### 4.2. Most important symptoms and effects, both acute and delayed

No 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

Co-ordinate fire-fighting measures to the fire surroundings.

#### 5.2. Special hazards arising from the substance or mixture

Non-flammable.

### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

#### Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### **General advice**

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

#### 6.3. Methods and material for containment and cleaning up

#### For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

### 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

### **SECTION 7: Handling and storage**



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# 7.1. Precautions for safe handling

### Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

### Advice on protection against fire and explosion

No special fire protection measures are necessary.

#### Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

# 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations.

#### Hints on joint storage

No special measures are necessary.

### Further information on storage conditions

Store, tightly closed, in the original vessel at conditions indicated on the label.

# 7.3. Specific end use(s)

The product is intended for professional use.

# SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
75-12-7	Formamide	20	37		TWA (8 h)	WEL
		30	56		STEL (15 min)	WEL

#### **DNEL/DMEL** values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
75-12-7	Formamide		-	
Worker DNEL,	long-term	inhalation	local	6,66 mg/m³
Worker DNEL,	long-term	inhalation	systemic	6,6 mg/m³
Worker DNEL,	long-term	dermal		0,952 mg/kg bw/day

### **PNEC** values

CAS No	Substance				
Environment	al compartment	Value			
75-12-7	Formamide				
Freshwater		0,5 mg/l			
Marine water		0,5 mg/l			
Freshwater sediment		1,26 mg/kg			
Micro-organisms in sewage treatment plants (STP)		100 mg/l			
Soil		0,151 mg/kg			



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### 8.2. Exposure controls

### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

#### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Wear eye protection/face protection.

### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### Skin protection

Use of protective clothing.

#### **Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

#### **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

s. 1. Information on basic physical and che		
Physical state:	liquid	
Colour:	colourless	
Odour:	odourless	
Melting point/freezing point:		not determined
Boiling point or initial boiling point and		not determined
boiling range:		
Flammability:		not determined
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Flash point:		not determined
Auto-ignition temperature:		not determined
Decomposition temperature:		not determined
pH-Value:		not determined
Viscosity / kinematic:		not determined
Water solubility:		easily soluble
Solubility in other solvents		
not determined		
Partition coefficient n-octanol/water:		not determined
Vapour pressure:		not determined
Density:		not determined
Relative vapour density:		not determined
Particle characteristics:		not applicable
9.2. Other information		
Information with regard to physical haz	ard classes	

Explosive properties The product is not: Explosive. Oxidizing properties The product is not: oxidising.

# SECTION 10: Stability and reactivity



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### 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

# 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4. Conditions to avoid

none

#### 10.5. Incompatible materials

No information available.

### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

### **SECTION 11: Toxicological information**

#### 11.1. Information on hazard classes as defined in GB CLP Regulation

#### Acute toxicity

Based on available data, the classification criteria are not met.

#### ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name							
	Exposure route	Dose		Species	Source	Method		
75-12-7	Formamide							
	oral	LD50 mg/kg	5325	Rat	ECHA			
	dermal	LD50 mg/kg	>3000	Rat	ECHA			
	inhalation (4 h) vapour	LC50	>21 mg/l	Rat	ECHA			

#### Irritation and corrosivity

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

#### Sensitising effects

Based on available data, the classification criteria are not met.

#### Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of causing cancer. (Formamide)

May damage fertility. May damage the unborn child. (Formamide)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

### STOT-single exposure

Based on available data, the classification criteria are not met.

#### STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure. (Formamide)

#### Aspiration hazard

Based on available data, the classification criteria are not met.

### 11.2. Information on other hazards

#### Other information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP]. Special hazards arising from the substance or mixture!



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### **SECTION 12: Ecological information**

### 12.1. Toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
75-12-7	Formamide						
	Acute fish toxicity	LC50 mg/l	6569	96 h	fish	ECHA	
	Acute algae toxicity	ErC50 mg/l	>500	72 h	Algae	ECHA	
	Acute crustacea toxicity	EC50 mg/l	>500	48 h	fish	ECHA	

### 12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

The product has not been tested.

### 12.4. Mobility in soil

The product has not been tested.

### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

The product has not been tested.

# 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

### 12.7. Other adverse effects

No information available.

### **Further information**

Avoid release to the environment.

#### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

### Disposal recommendations

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

#### **Contaminated packaging**

Hazardous waste according to Directive 2008/98/EC (waste framework directive). Handle contaminated packages in the same way as the substance itself.

### **SECTION 14: Transport information**

#### Land transport (ADR/RID)

14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.
Inland waterways transport (ADN)	
14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.



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14.4. Packing group:	No dangerous good in sense of this transport regulation.	
Marine transport (IMDG)		
14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.	
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.	
<u>14.3. Transport hazard class(es):</u>	No dangerous good in sense of this transport regulation.	
14.4. Packing group:	No dangerous good in sense of this transport regulation.	
Air transport (ICAO-TI/IATA-DGR)		
14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.	
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.	
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.	
14.4. Packing group:	No dangerous good in sense of this transport regulation.	
14.5. Environmental hazards		
ENVIRONMENTALLY HAZARDOUS:	No	
14.6. Special precautions for userNo dangerous good in sense of this tr14.7. Maritime transport in bulk accordingNo dangerous good in sense of this tr	to IMO instruments	
SECTION 15: Regulatory information		
15.1 Safety health and environmental requ	ulations/legislation specific for the substance or mixture	
EU regulatory information		
Authorisations (REACH, annex XIV):		
Substances of very high concern, SV	HC (REACH, anticle 59):	
Formamide Restrictions on use (REACH, annex XVII		
Entry 3, Entry 30, Entry 75		
Information according to Directive	Not subject to 2012/18/EU (SEVESO III)	
2012/18/EU (SEVESO III):	Not subject to 2012/10/EO (SEVESO III)	
National regulatory information		
Employment restrictions:	Observe restrictions to employment for juveniles according to the	
Water hazard class (D):	'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. 1 - slightly hazardous to water	
15.2. Chemical safety assessment		
	stances in this mixture were not carried out.	

# **SECTION 16: Other information**

# Changes

This data sheet contains changes from the previous version in section(s): 1,2,4,5,6,7,8,9,10,11,12,13,15,16.



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#### Abbreviations and acronyms

Carc: Carcinogenicity Repr: Reproductive toxicity STOT RE: Specific target organ toxicity - repeated exposure CLP: Classification, labelling and Packaging REACH: Registration, Evaluation and Authorization of Chemicals GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals **UN: United Nations** EC/EEC: European Community/European Economic Community EU: European Union CAS: Chemical Abstracts Service DNEL: Derived No Effect Level DMEL: Derived Minimal Effect Level PNEC: Predicted No Effect Concentration ATE: Acute toxicity estimate LC50: Lethal concentration, 50% LD50: Lethal dose, 50% LL50: Lethal loading, 50% EL50: Effect loading, 50% EC50: Effective Concentration 50% ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration BCF: Bio-concentration factor PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative M-factor: Multiplying factor ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) RID: Regulations concerning the international carriage of dangerous goods by rail ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures) IMDG: International Maritime Code for Dangerous Goods EmS: Emergency Schedules MFAG: Medical First Aid Guide IATA: International Air Transport Association DGR: Dangerous Goods Regulations ICAO: International Civil Aviation Organization **TI: Technical Instructions** MARPOL: International Convention for the Prevention of Marine Pollution from Ships IBC: Intermediate Bulk Container SVHC: Substance of Very High Concern For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

#### Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Carc. 2; H351	Calculation method
Repr. 1B; H360FD	Calculation method
STOT RE 2; H373	Calculation method

# Relevant H and EUH statements (number and full text)

H351	Suspected of causing cancer.
H360FD	May damage fertility. May damage the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.



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# Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)