

# according to Regulation (EC) No 1907/2006

# Zyto*Light* Glioma 1p/19q Probe Set

Product code: Z-2272

**Overview on Safety Data Sheets included** 

The document includes Safety Data Sheets for the following kit components:

Code	Component
Z-2075	ZytoLight SPEC 1p36/1q25 Dual Color Probe
Z-2076	ZytoLight SPEC 19q13/19p13 Dual Color Probe
BS-0002	ZyBlack Quenching Solution



according to UK REACH Regulation

# **ZytoLight FISH DNA Probe**

Revision date: 17.10.2022

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-2324, Z-2325, Z-2326

### 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
e-mail:	info@zytovision.com
Internet:	www.zytovision.com
1.4. Emergency telephone	+49 (0) 471/4832-300
<u>number:</u>	9am - 5pm (CET)

**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 Signal word: Danger

Revision No: 15,2 - Replaces version: 15,1

Telefax: +49 (0) 471/4832-509



according to UK REACH Regulation

# **ZytoLight FISH DNA Probe**

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**Pictograms:** 

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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.
ecautionary state	ements

# Pre

 · · · · · · · · · · · · · · · · · · ·	
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/eye protection/face protection/hearing protection.
P308+P313 P405	IF exposed or concerned: Get medical advice/attention. 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

# Hazardous components

CAS No	Chemical name				
	EC No	Index No	REACH No		
	Classification (GB CL	P Regulation)			
75-12-7	Formamide			40 - < 60 %	
	200-842-0	616-052-00-8			
	Carc. 2, Repr. 1B, ST	OT 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. L	imits, M-factors and ATE	
75-12-7	200-842-0	Formamide	40 - < 60 %
	inhalation: LC5	0 = >21 mg/l (vapours); dermal: LD50 = >3000 mg/kg; oral: LD50 = 5325 mg/kg	



according to UK REACH Regulation

# ZytoLight FISH DNA Probe

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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**



according to UK REACH Regulation

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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,	acute	inhalation	local	6,66 mg/m³
Worker DNEL,	long-term	dermal		0,952 mg/kg bw/day
Worker DNEL,	long-term	inhalation	systemic	0,66 mg/m³

### 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/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



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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

	Physical state:	liquid	
	Colour:	colourless	
	Odour:	odourless	
	Changes in the physical state		
	Melting point/freezing point:		not determined
	Boiling point or initial boiling point and boiling range:		not determined
	Flash point:		not determined
	Flammability Solid/liquid:		not applicable
	Gas:		not applicable
	Explosive properties The product is not: Explosive.		
	Lower explosion limits:		not determined
	Upper explosion limits:		not determined
	Auto-ignition temperature:		not determined
	Decomposition temperature:		not determined
	pH-Value:		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
<u>9.2</u>	2. Other information		
	Information with regard to physical haza	ard classes	
	Oxidizing properties The product is not: oxidising.		
	Other safety characteristics		
	Solid content:		not determined
	Evaporation rate:		not determined
	Further Information		

# **SECTION 10: Stability and reactivity**



according to UK REACH Regulation

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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.

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		

### Irritation and corrosivity

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.

### Further information

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

# **SECTION 12: Ecological information**

# 12.1. Toxicity

The product is not: Ecotoxic.



according to UK REACH Regulation

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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 crustacea toxicity	EC50 mg/l	>500	48 h	aquatic invertebrates	ECHA	
	Acute bacteria toxicity	(EC50 mg/l)	>1000	0,5 h	microorganisms	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)

No dangerous good in sense of this transport regulation. 14.1. UN number or ID number: 14.2. UN proper shipping name: No dangerous good in sense of this transport regulation. 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: 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. 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.



### according to UK REACH Regulation

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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.	
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.	
<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.	
14.5. Environmental hazards		
ENVIRONMENTALLY HAZARDOUS:	No	
14.6. Special precautions for user		
No dangerous good in sense of this tra	ansport regulation.	
14.7. Maritime transport in bulk according t	to IMO instruments	
No dangerous good in sense of this tra	ansport regulation.	
SECTION 15: Regulatory information		
15.1. Safety, health and environmental regu	ulations/legislation specific for the substance or mixture	
15.1. Safety, health and environmental regu EU regulatory information	ulations/legislation specific for the substance or mixture	
15.1. Safety, health and environmental regu EU regulatory information Authorisations (REACH, annex XIV):		
15.1. Safety, health and environmental regu EU regulatory information Authorisations (REACH, annex XIV): Substances of very high concern, SVH		
15.1. Safety, health and environmental regu EU regulatory information Authorisations (REACH, annex XIV):		
15.1. Safety, health and environmental regu EU regulatory information Authorisations (REACH, annex XIV): Substances of very high concern, SVH	HC (REACH, article 59):	
<ul> <li>15.1. Safety, health and environmental regulatory information</li> <li>Authorisations (REACH, annex XIV): Substances of very high concern, SVH Formamide</li> <li>Restrictions on use (REACH, annex XVII) Entry 3, Entry 30</li> </ul>	HC (REACH, article 59):	
15.1. Safety, health and environmental regu EU regulatory information Authorisations (REACH, annex XIV): Substances of very high concern, SVH Formamide Restrictions on use (REACH, annex XVII)	HC (REACH, article 59):	
<ul> <li>15.1. Safety, health and environmental regulatory information</li> <li>Authorisations (REACH, annex XIV): Substances of very high concern, SVF Formamide</li> <li>Restrictions on use (REACH, annex XVII) Entry 3, Entry 30</li> <li>Information according to 2012/18/EU</li> </ul>	HC (REACH, article 59): :	
<ul> <li>15.1. Safety, health and environmental regulatory information</li> <li>Authorisations (REACH, annex XIV): Substances of very high concern, SVF Formamide</li> <li>Restrictions on use (REACH, annex XVII) Entry 3, Entry 30</li> <li>Information according to 2012/18/EU (SEVESO III):</li> <li>National regulatory information</li> </ul>	HC (REACH, article 59): :	
<ul> <li>15.1. Safety, health and environmental regulatory information</li> <li>Authorisations (REACH, annex XIV): Substances of very high concern, SVH Formamide</li> <li>Restrictions on use (REACH, annex XVII) Entry 3, Entry 30</li> <li>Information according to 2012/18/EU (SEVESO III):</li> </ul>	HC (REACH, article 59): : Not subject to 2012/18/EU (SEVESO III)	
<ul> <li>15.1. Safety, health and environmental regu</li> <li>EU regulatory information</li> <li>Authorisations (REACH, annex XIV):</li> <li>Substances of very high concern, SVH</li> <li>Formamide</li> <li>Restrictions on use (REACH, annex XVII)</li> <li>Entry 3, Entry 30</li> <li>Information according to 2012/18/EU</li> <li>(SEVESO III):</li> <li>National regulatory information</li> </ul>	HC (REACH, article 59): : Not subject to 2012/18/EU (SEVESO III) Observe restrictions to employment for juveniles according to the	
<ul> <li>15.1. Safety, health and environmental regulatory information</li> <li>Authorisations (REACH, annex XIV): Substances of very high concern, SVH Formamide</li> <li>Restrictions on use (REACH, annex XVII) Entry 3, Entry 30</li> <li>Information according to 2012/18/EU (SEVESO III):</li> <li>National regulatory information</li> <li>Employment restrictions:</li> </ul>	<ul> <li>HC (REACH, article 59):</li> <li>Not subject to 2012/18/EU (SEVESO III)</li> <li>Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.</li> </ul>	
<ul> <li>15.1. Safety, health and environmental regulatory information</li> <li>Authorisations (REACH, annex XIV): Substances of very high concern, SVH Formamide</li> <li>Restrictions on use (REACH, annex XVII) Entry 3, Entry 30</li> <li>Information according to 2012/18/EU (SEVESO III):</li> <li>National regulatory information</li> </ul>	<ul> <li>HC (REACH, article 59):</li> <li>Not subject to 2012/18/EU (SEVESO III)</li> <li>Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for</li> </ul>	
<ul> <li>15.1. Safety, health and environmental regulatory information</li> <li>Authorisations (REACH, annex XIV): Substances of very high concern, SVH Formamide</li> <li>Restrictions on use (REACH, annex XVII) Entry 3, Entry 30</li> <li>Information according to 2012/18/EU (SEVESO III):</li> <li>National regulatory information</li> <li>Employment restrictions:</li> </ul>	<ul> <li>HC (REACH, article 59):</li> <li>Not subject to 2012/18/EU (SEVESO III)</li> <li>Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.</li> </ul>	

# **SECTION 16: Other information**

### Changes

This data sheet contains changes from the previous version in section(s): 1.

# Abbreviations and acronyms

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 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 loading, 50%



according to UK REACH Regulation

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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 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 ICAO: International Civil Aviation Organization 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 procedure Classification

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.

### **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 above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. 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 hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)



according to Regulation (EC) No 1907/2006

# ZyBlack<sup>™</sup> Quenching Solution

Revision date: 10.07.2020

Product code: BS-0002

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

### 1.1. Product identifier

ZyBlack™ Quenching Solution

# 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	
<u>number:</u>	9am - 5pm (CET)	

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

### Regulation (EC) No. 1272/2008

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

# 2.2. Label elements

2.3. Other hazards

No information available.

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

### 3.2. Mixtures

# SECTION 4: First aid measures

### 4.1. Description of first aid measures

### After inhalation

Provide fresh air.

### After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

### After ingestion

Rinse mouth immediately and drink 1 glass of of water.

### 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



according to Regulation (EC) No 1907/2006

# ZyBlack<sup>™</sup> Quenching Solution

Revision date: 10.07.2020

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# 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

In case of fire: Wear self-contained breathing apparatus.

### Additional information

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

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

Absorb with liquid-binding material (e.g. 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**

### 7.1. Precautions for safe handling

#### Advice on safe handling

No special measures are necessary.

#### Advice on protection against fire and explosion

No special fire protection measures are necessary.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed.

# 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

### 8.2. Exposure controls

#### Protective and hygiene measures

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff.

### Eye/face protection

Wear eye protection/face protection.



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### 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

	Physical state:	viscous	
	Colour: Odour:	black odourless	
	pH-Value:		not determined
	Changes in the physical state		
	Melting point:		not determined
	Initial boiling point and boiling range:		not determined
	Flash point:		not determined
	Flammability Solid:		not applicable
	Gas:		not applicable
	Explosive properties The product is not: Explosive.		
	Lower explosion limits:		not determined
	Upper explosion limits:		not determined
	Auto-ignition temperature Solid: Gas:		not applicable not applicable
	Decomposition temperature:		not determined
	Oxidizing properties Not oxidising.		
	Vapour pressure:		not determined
	Density:		not determined
	Water solubility:		easily soluble
	Solubility in other solvents not determined		
	Partition coefficient:		not determined
	Vapour density:		not determined
	Evaporation rate:		not determined
<u>9.2</u>	. Other information		
	Solid content:		not determined

# **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 toxicological effects

#### Acute toxicity

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

### Irritation and corrosivity

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

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

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

### Aspiration hazard

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

### Additional information on tests

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

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

### 12.1. Toxicity

The product is not: Ecotoxic.

#### 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 product has not been tested.

# 12.6. Other adverse effects

No information available.

### Further information

Avoid release to the environment.



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# **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

Wash with plenty of water. Completely emptied packages can be recycled.

## **SECTION 14: Transport information**

### Land transport (ADR/RID)

<u>14.1. UN number:</u>	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)	
<u>14.1. UN number:</u>	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.
Marine transport (IMDG)	
<u>14.1. UN number:</u>	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.
Air transport (ICAO-TI/IATA-DGR)	
<u>14.1. UN number:</u>	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 user	
No dangerous good in sense of this tran	sport regulation.
14.7. Transport in bulk according to Annex II	of Marpol and the IBC Code
No dangerous good in sense of this tran	sport regulation.
SECTION 15: Regulatory information	
15.1. Safety, health and environmental regula	tions/legislation specific for the substance or mixture
EU regulatory information	
Information according to 2012/18/EU	Not subject to 2012/18/EU (SEVESO III)

National regulatory information
Water hazard class (D):

1 - slightly hazardous to water



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### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

### **SECTION 16: Other information**

### Changes

This data sheet contains changes from the previous version in section(s): 2,3,4,5,6,7,8,9,10,11,12,13,14,15,16.

### Abbreviations and acronyms

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 CAS: Chemical Abstracts Service DNFL: 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 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 ICAO: International Civil Aviation Organization 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 table at http://abbrev.esdscom.eu

### **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 above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. 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.



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