

Safety Data Sheet

according to Regulation (EC) No 1907/2006

ZytoDot CISH DNA Probe

Print date: 05.07.2016

Product code: C-3xxx

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

1.1. Product identifier

ZytoDot CISH DNA Probe

Further trade names

C-3001, C-3002, C-3006, C-3007, C-3008, C-3012, C-3013, C-3014,
 C-3016, C-3020, C-3021, C-3023, C-3024, C-3025, C-3026, C-3029,
 C-3032, C-3033, C-3034, C-3035, C-3036, C-3037, C-3040, C-3043,
 C-3045, C-3046, C-3047, C-3048, C-3049, C-3050, C-3051, C-3052,
 C-3053, C-3054, C-3055, C-3056, C-3057, C-3058, C-3059, C-3062,
 C-3063, C-3064, C-3065, C-3066, C-3067, C-3068, C-3069, C-3070,
 C-3071, C-3072, C-3073, C-3074, C-3075

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 number: +49 (0) 471/4832-300
 9am - 5pm (CET)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:
 Carcinogenicity: Carc. 2
 Reproductive toxicity: Repr. 1B
 Specific target organ toxicity - repeated exposure: STOT RE 2
 Hazard Statements:
 Suspected of causing cancer.
 May damage fertility. May damage the unborn child.
 May cause damage to organs through prolonged or repeated exposure.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

formamide

Signal word: Danger

Pictograms:



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.

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Precautionary statements

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.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P405	Store locked up.

Special labelling of certain mixtures

Restricted to professional users.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name	Quantity						
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">EC No</td> <td style="width: 33%;">Index No</td> <td style="width: 33%;">REACH No</td> </tr> <tr> <td colspan="3">Classification according to Regulation (EC) No. 1272/2008 [CLP]</td> </tr> </table>	EC No	Index No	REACH No	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
EC No	Index No	REACH No						
Classification according to Regulation (EC) No. 1272/2008 [CLP]								
75-12-7	formamide	40 - < 60 %						
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">200-842-0</td> <td style="width: 33%;">616-052-00-8</td> <td style="width: 33%;"></td> </tr> <tr> <td colspan="3">Carc. 2, Repr. 1B, STOT RE 2; H351 H360FD H373</td> </tr> </table>	200-842-0	616-052-00-8		Carc. 2, Repr. 1B, STOT RE 2; H351 H360FD H373			
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.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated clothing immediately and dispose of safely. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). First aider: Pay attention to self-protection!

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

Rinse mouth immediately and drink plenty of water. Induce vomiting when the affected person is not unconscious. Medical treatment necessary.

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

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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. The product itself does not burn.

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

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment. See protective measures under section 7 and 8.

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

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means. Avoid contact with skin, eye and clothing.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Further information on handling

Handle and open container with care.

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 exhaust at critical locations.

Advice on storage compatibility

Keep only in the original container in a cool, well-ventilated place.

Further information on storage conditions

Store, tightly closed, in the original vessel at temperatures between 2°C and 8°C.

7.3. Specific end use(s)

The product is intended for professional use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
75-12-7	Formamide	20	37		TWA (8 h)	WEL
		30	56		STEL (15 min)	WEL

Additional advice on limit values

The product is skin resorptive.

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.

Protective and hygiene measures

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 or drink. Keep away from food, drink and animal feedingstuffs. Avoid contact with skin, eye and clothing. 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.

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 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. Wear suitable gloves. Suitable material:

NR (natural rubber, natural latex).

NBR (Nitrile rubber).

Butyl rubber.

Skin protection

Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. If handled uncovered, arrangements with local exhaust ventilation should be used if possible. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: liquid
 Colour: colourless
 Odour: odourless

pH-Value (at 20 °C): not determined

Changes in the physical state

Melting point: not determined
 Initial boiling point and boiling range: not determined
 Sublimation point: not determined
 Softening point: not determined
 Pour point: not determined

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Flash point: not determined

Sustaining combustion: No data available

Flammability

Solid: not applicable

Gas: not applicable

Explosive properties

not determined

Lower explosion limits: not determined

Upper explosion limits: not determined

Ignition temperature: not determined

Auto-ignition temperature

Solid: not applicable

Gas: not applicable

Decomposition temperature: not determined

Oxidizing properties

not determined

Vapour pressure: not determined

Density: not determined

Bulk density: not determined

Water solubility: not determined

Solubility in other solvents

not determined

Partition coefficient: not determined

Viscosity / dynamic: not determined

Viscosity / kinematic: not determined

Flow time: not determined

Vapour density: not determined

Evaporation rate: not determined

Solvent separation test: not determined

Solvent content: not determined

9.2. Other information

Solid content: not determined

SECTION 10: Stability and reactivity

10.1. Reactivity

Product has not been tested.

10.2. Chemical stability

If stored correctly, the product is stable at least until the expiry date printed on the label.

10.3. Possibility of hazardous reactions

Product has not been tested.

10.4. Conditions to avoid

No data available.

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10.5. Incompatible materials

Product has not been tested.

10.6. Hazardous decomposition products

Product has not been tested.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

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

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

Irritation and corrosivity

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

Frequently or prolonged contact with skin may cause dermal irritation. The product is skin resorptive. Following inhalation: mild irritant. Following eye contact: mild irritant.

Sensitising effects

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

No known symptoms to date.

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)

Liver and kidney damage. Depression of the central nervous system. Shortage of breath.

Aspiration hazard

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

Additional information on tests

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

Further information

Do not allow to enter into surface water or drains.

SECTION 12: Ecological information

12.1. Toxicity

Product has not been tested.

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CAS No	Chemical name				
	Aquatic toxicity	Dose	[h] [d]	Species	Source
75-12-7	formamide				
	Acute fish toxicity	LC50	6569 mg/l	96 h	ECHA
	Acute crustacea toxicity	EC50	>500 mg/l	48 h	ECHA
	Acute bacteria toxicity		(>1000 mg/l)	0,5 h	ECHA

12.2. Persistence and degradability

The product has not been tested. Biodegradation: 70% / 28d (OECD 302 B)

12.3. Bioaccumulative potential

Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
75-12-7	formamide	-0,82

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

Not applicable.

12.6. Other adverse effects

No information available.

Further information

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

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

Contaminated packaging

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself. Non-contaminated packages may be recycled.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: not applicable

14.2. UN proper shipping name: not applicable

14.3. Transport hazard class(es): not applicable

14.4. Packing group: -

Other applicable information (land transport)

No dangerous good in sense of these transport regulations.

Inland waterways transport (ADN)

14.1. UN number: not applicable

14.2. UN proper shipping name: not applicable

14.3. Transport hazard class(es): not applicable

14.4. Packing group: -

Other applicable information (inland waterways transport)

No dangerous good in sense of these transport regulations.

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Marine transport (IMDG)

- 14.1. UN number:** not applicable
- 14.2. UN proper shipping name:** not applicable
- 14.3. Transport hazard class(es):** not applicable
- 14.4. Packing group:** -

Other applicable information (marine transport)

No dangerous good in sense of these transport regulations.

Air transport (ICAO)

- 14.1. UN number:** not applicable
- 14.2. UN proper shipping name:** not applicable
- 14.3. Transport hazard class(es):** not applicable
- 14.4. Packing group:** -

Other applicable information (air transport)

No dangerous good in sense of these transport regulations.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

No information available.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No dangerous good in sense of these transport regulations.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils 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.

Water contaminating class (D): 1 - slightly water contaminating

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): 1,2,3,4,5,6,7,8,9,10,12,13,15.

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

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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 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.)