

**CINtec PLUS CYTOLOGY CE**

Version 1.2

Revision Date 10-29-2013

Print Date 12-18-2013

1. Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Commercial Product Name : CINtec PLUS CYTOLOGY CE
Mat.-No./ Genisys-No. : 06889565001

:

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

Recommended restrictions : For professional users only.
on use

1.3 Details of the supplier of the safety data sheet

Company : Roche Diagnostics Limited
Charles Avenue
Burgess Hill
RH15 9RY West Sussex

E-mail address : -
Telephone : +44 1444 256000
Telefax : +44 1444 256239
Responsible Department :
In case of emergencies: : Health, Safety & +44 1444 256500 or +44 7802
(Roche Diagnostics Ltd.) Environment 260498
- +44 1444 256561 or +44 7710
Product Safety / Vigilance 391653
-
Toxicology 24Hr help-line: : NPIS: +44 844 892 0111
Health Advice 24Hr help-line: NHS Direct: +44 845 4647
NHS 24: +44 8454 242424

2. Hazards identification**2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Eye irritation, Category 2 H319: Causes serious eye irritation.
Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

Classification (67/548/EEC, 1999/45/EC)

Sensitising R43: May cause sensitisation by skin contact.

2.2 Label elements**Labelling (REGULATION (EC) No 1272/2008)**

**CINtec PLUS CYTOLOGY CE**

Version 1.2

Revision Date 10-29-2013

Print Date 12-18-2013

Hazard pictograms

:



Signal word

: Warning

Hazard statements

: H317
H319May cause an allergic skin reaction.
Causes serious eye irritation.

Precautionary statements

: **Prevention:**
P261Avoid breathing dust/ fume/ gas/ mist/
vapours/ spray.P264
P272Wash skin thoroughly after handling.
Contaminated work clothing should not be
allowed out of the workplace.

P280

Wear protective gloves/ eye protection/ face
protection.**Response:**

P302 + P352

IF ON SKIN: Wash with plenty of soap and
water.

P305 + P351 + P338

IF IN EYES: Rinse cautiously with
water for several minutes. Remove contact
lenses, if present and easy to do. Continue
rinsing.

P333 + P313

If skin irritation or rash occurs: Get medical
advice/ attention.

P337 + P313

If eye irritation persists: Get medical advice/
attention.

P363

Wash contaminated clothing before reuse.

Disposal:

P501

Dispose of contents/ container to an
approved waste disposal plant.**Additional Labelling:**

EUH210 Safety data sheet available on request.

2.3 Other hazards**3. Composition/information on ingredients****3.2 Mixtures*****DAB H2O2***



CINtec PLUS CYTOLOGY CE

Version 1.2

Revision Date 10-29-2013

Print Date 12-18-2013

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Classification (67/548/EEC, 1999/45/EC)

Not a hazardous substance or mixture.

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Tri- potassiumphosphate- trihydrate, 22763-03-7	22763-03-7 231-907-1	Xi; R36/38	Skin Irrit. 2; H315 Eye Irrit. 2; H319	>= 1 - < 3

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

Peroxidase Inhibitor

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Classification (67/548/EEC, 1999/45/EC)

Not a hazardous substance or mixture.

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
hydrogen peroxide, 7722-84-1	7722-84-1 231-765-0	O; R 8 R 5 C; R35 Xn; R20/22	Ox. Liq. 1; H271 Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Corr. 1A; H314	>= 1 - < 5

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

DAB

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

**CINtec PLUS CYTOLOGY CE**

Version 1.2

Revision Date 10-29-2013

Print Date 12-18-2013

Classification (67/548/EEC, 1999/45/EC)

Not a hazardous substance or mixture.

Remarks : No hazardous ingredients

RED AP MULTIMER**Classification (REGULATION (EC) No 1272/2008)**

Skin sensitisation, Category 1

H317: May cause an allergic skin reaction.

Classification (67/548/EEC, 1999/45/EC)

Sensitising

R43: May cause sensitisation by skin contact.

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1), 55965-84-9	55965-84-9	T; R23/24/25 C; R34 R43 N; R50-R53	Acute Tox. 3; H301 Acute Tox. 3; H331 Acute Tox. 3; H311 Skin Corr. 1B; H314 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.0015 - < 0.06

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

COCKTAIL (p16, Ki-67)**Classification (REGULATION (EC) No 1272/2008)**

Skin sensitisation, Category 1

H317: May cause an allergic skin reaction.

Classification (67/548/EEC, 1999/45/EC)

Sensitising

R43: May cause sensitisation by skin contact.

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]


CINtec PLUS CYTOLOGY CE

Version 1.2

Revision Date 10-29-2013

Print Date 12-18-2013

mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1), 55965-84-9	55965-84-9	T; R23/24/25 C; R34 R43 N; R50-R53	Acute Tox. 3; H301 Acute Tox. 3; H331 Acute Tox. 3; H311 Skin Corr. 1B; H314 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	$\geq 0.0015 - < 0.06$
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For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

RED anti-RABBIT NP LINKER
Classification (REGULATION (EC) No 1272/2008)

Skin sensitisation, Category 1

H317: May cause an allergic skin reaction.

Classification (67/548/EEC, 1999/45/EC)

Sensitising

R43: May cause sensitisation by skin contact.

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1), 55965-84-9	55965-84-9	T; R23/24/25 C; R34 R43 N; R50-R53	Acute Tox. 3; H301 Acute Tox. 3; H331 Acute Tox. 3; H311 Skin Corr. 1B; H314 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	$\geq 0.0015 - < 0.06$

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

FAST RED
Classification (REGULATION (EC) No 1272/2008)

Eye irritation, Category 2

H319: Causes serious eye irritation.

Skin sensitisation, Category 1

H317: May cause an allergic skin reaction.

**CINtec PLUS CYTOLOGY CE**

Version 1.2

Revision Date 10-29-2013

Print Date 12-18-2013

Classification (67/548/EEC, 1999/45/EC)

Sensitising

R43: May cause sensitisation by skin contact.

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Brij 35, 9002-92-0	9002-92-0	Xn; R22 Xi; R41	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318	>= 1 - < 3
mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1), 55965-84-9	55965-84-9	T; R23/24/25 C; R34 R43 N; R50-R53	Acute Tox. 3; H301 Acute Tox. 3; H331 Acute Tox. 3; H311 Skin Corr. 1B; H314 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.0015 - < 0.06

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

RED NAPHTHOL**Classification (REGULATION (EC) No 1272/2008)**

Skin sensitisation, Category 1

H317: May cause an allergic skin reaction.

Classification (67/548/EEC, 1999/45/EC)

Sensitising

R43: May cause sensitisation by skin contact.

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC	55965-84-9	T; R23/24/25 C; R34 R43 N; R50-R53	Acute Tox. 3; H301 Acute Tox. 3; H331 Acute Tox. 3; H311 Skin Corr. 1B; H314	>= 0.0015 - < 0.06

**CINtec PLUS CYTOLOGY CE**

Version 1.2

Revision Date 10-29-2013

Print Date 12-18-2013

no. 220-239-6] (3:1), 55965-84-9			Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	
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For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

DAB anti-MOUSE HQ LINKER**Classification (REGULATION (EC) No 1272/2008)**

Skin sensitisation, Category 1

H317: May cause an allergic skin reaction.

Classification (67/548/EEC, 1999/45/EC)

Sensitising

R43: May cause sensitisation by skin contact.

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1), 55965-84-9	55965-84-9	T; R23/24/25 C; R34 R43 N; R50-R53	Acute Tox. 3; H301 Acute Tox. 3; H331 Acute Tox. 3; H311 Skin Corr. 1B; H314 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.0015 - < 0.06

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

DAB HRP MULTIMER**Classification (REGULATION (EC) No 1272/2008)**

Skin sensitisation, Category 1

H317: May cause an allergic skin reaction.

Classification (67/548/EEC, 1999/45/EC)

Sensitising

R43: May cause sensitisation by skin contact.

Hazardous components

**CINtec PLUS CYTOLOGY CE**

Version 1.2

Revision Date 10-29-2013

Print Date 12-18-2013

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1), 55965-84-9	55965-84-9	T; R23/24/25 C; R34 R43 N; R50-R53	Acute Tox. 3; H301 Acute Tox. 3; H331 Acute Tox. 3; H311 Skin Corr. 1B; H314 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.0015 - < 0.06

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. First aid measures**4.1 Description of first aid measures**

- General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : Move to fresh air.
If unconscious place in recovery position and seek medical advice.
If symptoms persist, call a physician.
- In case of skin contact : If skin irritation persists, call a physician.
If on skin, rinse well with water.
If on clothes, remove clothes.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

**CINtec PLUS CYTOLOGY CE**

Version 1.2

Revision Date 10-29-2013

Print Date 12-18-2013

If swallowed : Clean mouth with water and drink afterwards plenty of water.
Keep respiratory tract clear.
Do NOT induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

5. Firefighting measures**5.1 Extinguishing media**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self contained breathing apparatus for fire fighting if necessary.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6. Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Use personal protective equipment.
Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

**CINtec PLUS CYTOLOGY CE**

Version 1.2

Revision Date 10-29-2013

Print Date 12-18-2013

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform
respective authorities.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel,
acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

Treat recovered material as described in the section "Disposal considerations".

7. Handling and storage**7.1 Precautions for safe handling**

Advice on safe handling : Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the
application area.
Dispose of rinse water in accordance with local and national
regulations.
Persons susceptible to skin sensitisation problems or asthma,
allergies, chronic or recurrent respiratory disease should not
be employed in any process in which this mixture is being
used.
To prevent leaks or spillages from spreading, provide a
suitable liquid retention system.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated
place.
Electrical installations / working materials must comply with
the technological safety standards.

Further information on storage conditions : See label, package insert or internal guidelines

Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : Laboratory chemicals

**CINtec PLUS CYTOLOGY CE**

Version 1.2

Revision Date 10-29-2013

Print Date 12-18-2013

8. Exposure controls/personal protection**Exposure Guidelines***DAB H₂O₂*

Contains no substances with occupational exposure limit values.

*Peroxidase Inhibitor***Components with workplace control parameters**

Components	CAS-No.	Value	Control parameters	Source
hydrogen peroxide, 7722-84-1	7722-84-1	TWA	1 ppm	USA. ACGIH Threshold Limit Values (TLV)
		TWA	1 ppm 1.4 mg/m ³	USA. NIOSH Recommended Exposure Limits
		TWA	1 ppm 1.4 mg/m ³	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	1 ppm 1.4 mg/m ³	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000

DAB

Contains no substances with occupational exposure limit values.

RED AP MULTIMER

Contains no substances with occupational exposure limit values.

COCKTAIL (p16, Ki-67)

Contains no substances with occupational exposure limit values.

RED anti-RABBIT NP LINKER

Contains no substances with occupational exposure limit values.

FAST RED

Contains no substances with occupational exposure limit values.

RED NAPHTHOL

**CINtec PLUS CYTOLOGY CE**

Version 1.2

Revision Date 10-29-2013

Print Date 12-18-2013

Contains no substances with occupational exposure limit values.

DAB anti-MOUSE HQ LINKER

Contains no substances with occupational exposure limit values.

DAB HRP MULTIMER

Contains no substances with occupational exposure limit values.

Personal protective equipment

Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.

Hand protection : Protective gloves

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
This recommendation is only valid for the product mentioned in the safety data sheet and provided by us and for the application specified by us.
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection : impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

9. Physical and chemical properties**9.1 Information on basic physical and chemical properties**

**CINtec PLUS CYTOLOGY CE**

Version 1.2

Revision Date 10-29-2013

Print Date 12-18-2013

DAB H2O2

Appearance	: liquid
Colour	: colourless
Odour	: slightstinging
pH	: acidic
Melting point/range	: no data available
Boiling point/boiling range	: no data available
Flash point	: does not flash
Flammability (solid, gas)	: The product is not flammable.
Lower explosion limit	: no data available
Upper explosion limit	: no data available
Ignition temperature	: no data available
Thermal decomposition	: no data available
Oxidizing properties	: The substance or mixture is not classified as oxidizing.

Peroxidase Inhibitor

Appearance	: liquid
Colour	: colourless
Odour	: slight
pH	: 4.18
Melting point/range	: no data available
Boiling point/boiling range	: no data available
Flash point	: does not flash
Flammability (solid, gas)	: The product is not flammable.
Lower explosion limit	: no data available
Upper explosion limit	: no data available
Density	: 1.1 g/cm3
Water solubility	: completely miscible
Ignition temperature	: no data available
Thermal decomposition	: no data available

DAB

Appearance	: liquid
pH	: 2.4

**CINtec PLUS CYTOLOGY CE**

Version 1.2

Revision Date 10-29-2013

Print Date 12-18-2013

Melting point/range : no data available
Boiling point/boiling range : no data available
Flash point : does not flash
Flammability (solid, gas) : The product is not flammable.
Lower explosion limit : no data available
Upper explosion limit : no data available
Density : 1.007 g/cm³
Water solubility : completely miscible
Ignition temperature : no data available
Thermal decomposition : no data available
Oxidizing properties : The substance or mixture is not classified as oxidizing.

RED AP MULTIMER

Appearance : liquid
pH : 7.16
Melting point/range : no data available
Boiling point/boiling range : no data available
Flash point : does not flash
Lower explosion limit : no data available
Upper explosion limit : no data available
Density : 1.025 g/cm³
Water solubility : completely miscible
Ignition temperature : no data available
Thermal decomposition : no data available

COCKTAIL (p16, Ki-67)

Appearance : liquid
Melting point/range : no data available
Boiling point/boiling range : no data available
Flash point : does not flash
Lower explosion limit : no data available
Upper explosion limit : no data available
Density : no data available
Water solubility : completely miscible
Ignition temperature : no data available

**CINtec PLUS CYTOLOGY CE**

Version 1.2

Revision Date 10-29-2013

Print Date 12-18-2013

Thermal decomposition : no data available

RED anti-RABBIT NP LINKER

Appearance : liquid

Melting point/range : no data available

Boiling point/boiling range : no data available

Flash point : does not flash

Lower explosion limit : no data available

Upper explosion limit : no data available

Density : no data available

Water solubility : completely miscible

Ignition temperature : no data available

Thermal decomposition : no data available

FAST RED

Appearance : liquid

Colour : no data available

Odour : No information available.

Odour Threshold : no data available

pH : 3.82

Melting point/range : no data available

Boiling point/boiling range : no data available

Flash point : does not flash

Lower explosion limit : no data available

Upper explosion limit : no data available

Relative vapour density : no data available

Relative density : no data available

Density : 0.98 g/cm³

Water solubility : completely miscible

Ignition temperature : no data available

Thermal decomposition : no data available

Viscosity, kinematic : no data available

RED NAPHTHOL

Appearance : liquid

**CINtec PLUS CYTOLOGY CE**

Version 1.2

Revision Date 10-29-2013

Print Date 12-18-2013

Colour : no data available
Odour : No information available.
Odour Threshold : no data available
pH : 7.35
Melting point/range : no data available
Boiling point/boiling range : no data available
Flash point : does not flash
Evaporation rate : no data available
Lower explosion limit : no data available
Upper explosion limit : no data available
Relative vapour density : no data available
Relative density : no data available
Density : 1.0 g/cm³
Water solubility : completely miscible
Ignition temperature : no data available
Thermal decomposition : no data available
Viscosity, kinematic : no data available

DAB anti-MOUSE HQ LINKER

Appearance : liquid

Melting point/range : no data available
Boiling point/boiling range : no data available
Flash point : does not flash
Lower explosion limit : no data available
Upper explosion limit : no data available
Density : no data available
Water solubility : completely miscible
Ignition temperature : no data available
Thermal decomposition : no data available

DAB HRP MULTIMER

Appearance : liquid

Melting point/range : no data available
Boiling point/boiling range : no data available
Flash point : does not flash

**CINtec PLUS CYTOLOGY CE**

Version 1.2

Revision Date 10-29-2013

Print Date 12-18-2013

Lower explosion limit : no data available
Upper explosion limit : no data available
Density : no data available
Water solubility : completely miscible
Ignition temperature : no data available
Thermal decomposition : no data available

9.2 Other information

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

10. Stability and reactivity**10.1 Reactivity**

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Further information: No decomposition if stored and applied as directed.

10.4 Conditions to avoid

Conditions to avoid : no data available

10.5 Incompatible materials

Materials to avoid : no data available

10.6 Hazardous decomposition products

**CINtec PLUS CYTOLOGY CE**

Version 1.2

Revision Date 10-29-2013

Print Date 12-18-2013

Hazardous decomposition products : no data available

11. Toxicological information**11.1 Information on toxicological effects***DAB H2O2***Components:****Tri-potassiumphosphate-trihydrate :**

Acute oral toxicity : LD50 Oral: ca. 2,001 mg/kg, rat, OECD Test Guideline 401

Skin corrosion/irritation : Result: Irritating to skin., May cause skin irritation in susceptible persons.

Serious eye damage/eye irritation : Result: Irritating to eyes., May cause irreversible eye damage.

Germ cell mutagenicity

Genotoxicity in vitro : Ames test, Result: negative

STOT - single exposure : Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure : Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration toxicity : no data available

*Peroxidase Inhibitor***Components:****hydrogen peroxide :**

Acute oral toxicity : LD50 Oral: 2,000 mg/kg, mouse
: LD50 Oral: 820 mg/kg, rabbit

Acute inhalation toxicity : Acute toxicity estimate: 11 mg/l, vapour, Expert judgement

Acute dermal toxicity : LD50 Dermal: 4,060 mg/kg, rat

Skin corrosion/irritation : Extremely corrosive and destructive to tissue.

Serious eye damage/eye irritation : May cause irreversible eye damage.

Further information : no data available

DAB

No hazardous ingredients

**CINtec PLUS CYTOLOGY CE**

Version 1.2

Revision Date 10-29-2013

Print Date 12-18-2013

RED AP MULTIMER

No hazardous ingredients

COCKTAIL (p16, Ki-67)

No hazardous ingredients

RED anti-RABBIT NP LINKER

No hazardous ingredients

FAST RED**Components:****Brij 35 :**

Acute oral toxicity : LD50 Oral: 1,000 mg/kg, rat

Skin corrosion/irritation : Result: Irritating to skin.

Serious eye damage/eye irritation : Result: Risk of serious damage to eyes.

STOT - single exposure : Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure : Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration toxicity : no data available

RED NAPHTHOL

No hazardous ingredients

DAB anti-MOUSE HQ LINKER

No hazardous ingredients

DAB HRP MULTIMER

No hazardous ingredients

12. Ecological information**12.1 Toxicity****DAB H2O2****Components:****Tri-potassiumphosphate-trihydrate :**

Toxicity to fish : LC0: ca. 900 mg/l, 48 h, Leuciscus idus (Golden orfe)

Ecotoxicology Assessment

Toxicity Data on Soil : Not expected to adsorb on soil.

Other organisms relevant to the environment : no data available

**CINtec PLUS CYTOLOGY CE**

Version 1.2

Revision Date 10-29-2013

Print Date 12-18-2013

*Peroxidase Inhibitor***Components:****hydrogen peroxide :**

- Toxicity to fish : LC50: 30 mg/l, 48 h, Leuciscus idus (Golden orfe)
: LC50: 16.4 mg/l, 96 h, Pimephales promelas (fathead minnow)
: LC50: 30 mg/l, Carassius auratus (goldfish)
Toxicity to daphnia and other aquatic invertebrates : EC50: 7.7 mg/l, 24 h, Daphnia magna (Water flea)
Toxicity to algae : LC50: 7.3 mg/l, Scenedesmus quadricauda (Green algae)
Toxicity to bacteria : no data available

Ecotoxicology Assessment

- Acute aquatic toxicity : This product has no known ecotoxicological effects.
Chronic aquatic toxicity : This product has no known ecotoxicological effects.
Toxicity Data on Soil : Not expected to adsorb on soil.
Other organisms relevant to the environment : no data available

DAB

No hazardous ingredients

RED AP MULTIMER

No hazardous ingredients

COCKTAIL (p16, Ki-67)

No hazardous ingredients

RED anti-RABBIT NP LINKER

No hazardous ingredients

FAST RED**Components:****Brij 35 :**

- Toxicity to daphnia and other aquatic invertebrates : LC50: 6.46 mg/l, 48 h, Daphnia magna (Water flea)

Ecotoxicology Assessment

- Acute aquatic toxicity : Toxic to aquatic life.
Chronic aquatic toxicity : This product has no known ecotoxicological effects.
Toxicity Data on Soil : Not expected to adsorb on soil.

**CINtec PLUS CYTOLOGY CE**

Version 1.2

Revision Date 10-29-2013

Print Date 12-18-2013

Other organisms relevant to the environment : no data available

RED NAPHTHOL

No hazardous ingredients

DAB anti-MOUSE HQ LINKER

No hazardous ingredients

DAB HRP MULTIMER

No hazardous ingredients

12.2 Persistence and degradability***DAB H2O2******Peroxidase Inhibitor*****Components:****hydrogen peroxide :**

Biodegradability : no data available

DAB

No hazardous ingredients

RED AP MULTIMER

No hazardous ingredients

COCKTAIL (p16, Ki-67)

No hazardous ingredients

RED anti-RABBIT NP LINKER

No hazardous ingredients

FAST RED***RED NAPHTHOL***

No hazardous ingredients

DAB anti-MOUSE HQ LINKER

No hazardous ingredients

DAB HRP MULTIMER

No hazardous ingredients

12.3 Bioaccumulative potential***DAB H2O2***

**CINtec PLUS CYTOLOGY CE**

Version 1.2

Revision Date 10-29-2013

Print Date 12-18-2013

*Peroxidase Inhibitor***Components:****hydrogen peroxide :**

Bioaccumulation : no data available

DAB

No hazardous ingredients

RED AP MULTIMER

No hazardous ingredients

COCKTAIL (p16, Ki-67)

No hazardous ingredients

RED anti-RABBIT NP LINKER

No hazardous ingredients

*FAST RED***Components:****Brij 35 :**

Bioaccumulation : Cyprinus carpio (Carp), Exposure time: 72 h, Bioconcentration factor (BCF): 220

RED NAPHTHOL

No hazardous ingredients

DAB anti-MOUSE HQ LINKER

No hazardous ingredients

DAB HRP MULTIMER

No hazardous ingredients

12.4 Mobility in soil*DAB H2O2**Peroxidase Inhibitor***Components:****hydrogen peroxide :**

Mobility : no data available

Distribution among : no data available

environmental compartments

Environmental fate and : no data available

pathways

Physico-chemical : no data available



CINtec PLUS CYTOLOGY CE

Version 1.2

Revision Date 10-29-2013

Print Date 12-18-2013

removability

DAB

No hazardous ingredients

RED AP MULTIMER

No hazardous ingredients

COCKTAIL (p16, Ki-67)

No hazardous ingredients

RED anti-RABBIT NP LINKER

No hazardous ingredients

FAST RED

RED NAPHTHOL

No hazardous ingredients

DAB anti-MOUSE HQ LINKER

No hazardous ingredients

DAB HRP MULTIMER

No hazardous ingredients

12.5 Results of PBT and vPvB assessment

DAB H2O2

Peroxidase Inhibitor

Components:

hydrogen peroxide :

Assessment

: This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

**CINtec PLUS CYTOLOGY CE**

Version 1.2

Revision Date 10-29-2013

Print Date 12-18-2013

DAB

No hazardous ingredients

RED AP MULTIMER

No hazardous ingredients

COCKTAIL (p16, Ki-67)

No hazardous ingredients

RED anti-RABBIT NP LINKER

No hazardous ingredients

*FAST RED**RED NAPHTHOL*

No hazardous ingredients

DAB anti-MOUSE HQ LINKER

No hazardous ingredients

DAB HRP MULTIMER

No hazardous ingredients

12.6 Other adverse effects*DAB H2O2**Peroxidase Inhibitor***Components:****hydrogen peroxide :**

Biochemical Oxygen : no data available

Demand (BOD)

Dissolved organic carbon : no data available

(DOC)

Chemical Oxygen Demand : no data available

(COD)

Adsorbed organic bound : no data available

halogens (AOX)

Additional ecological : no data available

information

DAB

No hazardous ingredients

**CINtec PLUS CYTOLOGY CE**

Version 1.2

Revision Date 10-29-2013

Print Date 12-18-2013

RED AP MULTIMER

No hazardous ingredients

COCKTAIL (p16, Ki-67)

No hazardous ingredients

RED anti-RABBIT NP LINKER

No hazardous ingredients

*FAST RED***Components:****Brij 35 :**

Additional ecological information : no data available

RED NAPHTHOL

No hazardous ingredients

DAB anti-MOUSE HQ LINKER

No hazardous ingredients

DAB HRP MULTIMER

No hazardous ingredients

13. Disposal considerations**13.1 Waste treatment methods**

- | | |
|------------------------|---|
| Product | : Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company. |
| Contaminated packaging | : Empty remaining contents.
Dispose of as unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not re-use empty containers. |



CINtec PLUS CYTOLOGY CE

Version 1.2

Revision Date 10-29-2013

Print Date 12-18-2013

14. Transport information

14.1 UN number

DOT

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.2 Proper shipping name

DOT

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.3 Transport hazard class

DOT

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.4 Packing group

DOT

Not dangerous goods

IMDG

Not dangerous goods

IATA_C

Not dangerous goods

IATA_P

Not dangerous goods

14.5 Environmental hazards

DOT

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.6 Special precautions for user

Not dangerous goods in the meaning of ADR/RID, ADN, IMDG-Code, ICAO/IATA-DGR

**CINtec PLUS CYTOLOGY CE**

Version 1.2

Revision Date 10-29-2013

Print Date 12-18-2013

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

Remarks : not applicable

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

DAB H2O2

REGULATORY INFORMATION**OSHA Hazards** : Moderate skin irritant
Moderate eye irritant**WHMIS Classification** : D2B Toxic Material Causing Other Toxic Effects
Moderate skin irritant
Moderate eye irritant

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

CERCLA Reportable Quantity**SARA 302 Reportable Quantity**

Product : Calculated RQ exceeds reasonably attainable upper limit.

Components : hydrogen peroxide**EPCRA - Emergency Planning and Community Right-to-Know Act****SARA 302** : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.**SARA 304** : Calculated RQ exceeds reasonably attainable upper limit.
Components : hydrogen peroxide**Clean Air Act****Ozone-Depletion Potential** : This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

**CINtec PLUS CYTOLOGY CE**

Version 1.2

Revision Date 10-29-2013

Print Date 12-18-2013

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

California Prop 65 Components : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Peroxidase Inhibitor

REGULATORY INFORMATION

OSHA Hazards : Harmful by ingestion.

WHMIS Classification : E Corrosive Material
Corrosive to skin

Corrosive to eyes

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

CERCLA Reportable Quantity**SARA 302 Reportable Quantity**

Product : Calculated RQ exceeds reasonably attainable upper limit.

Components : hydrogen peroxide

EPCRA - Emergency Planning and Community Right-to-Know Act

SARA 302 : The following components are subject to reporting levels established by SARA Title III, Section 302:

Components : hydrogen peroxide

SARA 304 : Calculated RQ exceeds reasonably attainable upper limit.
Components : hydrogen peroxide

**CINtec PLUS CYTOLOGY CE**

Version 1.2

Revision Date 10-29-2013

Print Date 12-18-2013

Clean Air Act**Ozone-Depletion Potential**

: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations**California Prop 65 Components**

: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

DAB

REGULATORY INFORMATION**OSHA Hazards**

: No OSHA Hazards

WHMIS Classification

: Not Rated

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

CERCLA Reportable Quantity**SARA 302 Reportable Quantity**

Product : This material does not contain any components with a SARA 302 RQ.

EPCRA - Emergency Planning and Community Right-to-Know Act

**CINtec PLUS CYTOLOGY CE**

Version 1.2

Revision Date 10-29-2013

Print Date 12-18-2013

- SARA 302** : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
- SARA 304** : This material does not contain any components with a section 304 EHS RQ.

Clean Air Act

- Ozone-Depletion Potential** : This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489):

Polyethylenglykol 8000 5 %

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

- California Prop 65 Components** : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

RED AP MULTIMER**REGULATORY INFORMATION**

- OSHA Hazards** : No OSHA Hazards

- WHMIS Classification** : Not Rated

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

CERCLA Reportable Quantity

Components : zinc chloride 1000 lbs

**CINtec PLUS CYTOLOGY CE**

Version 1.2

Revision Date 10-29-2013

Print Date 12-18-2013

SARA 302 Reportable Quantity

Product : This material does not contain any components with a SARA 302 RQ.

EPCRA - Emergency Planning and Community Right-to-Know Act

SARA 302 : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 304 : This material does not contain any components with a section 304 EHS RQ.

Clean Air Act

Ozone-Depletion Potential : This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

zinc chloride

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

zinc chloride

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

California Prop 65 Components : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

COCKTAIL (p16, Ki-67)

REGULATORY INFORMATION

OSHA Hazards : No OSHA Hazards

**CINtec PLUS CYTOLOGY CE**

Version 1.2

Revision Date 10-29-2013

Print Date 12-18-2013

WHMIS Classification : Not Rated

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

CERCLA Reportable Quantity

Components : sodium hydroxide 1000 lbs

SARA 302 Reportable Quantity

Product : This material does not contain any components with a SARA 302 RQ.

EPCRA - Emergency Planning and Community Right-to-Know Act

SARA 302 : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 304 : This material does not contain any components with a section 304 EHS RQ.

Clean Air Act

Ozone-Depletion Potential : This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

sodium hydroxide

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

sodium hydroxide

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

California Prop 65 Components : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**CINtec PLUS CYTOLOGY CE**

Version 1.2

Revision Date 10-29-2013

Print Date 12-18-2013

RED anti-RABBIT NP LINKER

REGULATORY INFORMATION**OSHA Hazards** : No OSHA Hazards**WHMIS Classification** : Not Rated

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

CERCLA Reportable QuantityComponents : sodium hydroxide 1000 lbs**SARA 302 Reportable Quantity**

Product : This material does not contain any components with a SARA 302 RQ.

EPCRA - Emergency Planning and Community Right-to-Know Act**SARA 302** : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.**SARA 304** : This material does not contain any components with a section 304 EHS RQ.**Clean Air Act****Ozone-Depletion Potential** : This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

sodium hydroxide

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

sodium hydroxide

**CINtec PLUS CYTOLOGY CE**

Version 1.2

Revision Date 10-29-2013

Print Date 12-18-2013

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

California Prop 65 Components : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

FAST RED

REGULATORY INFORMATION

OSHA Hazards : Harmful by ingestion.
Moderate skin irritant
Severe eye irritant

WHMIS Classification : D2B Toxic Material Causing Other Toxic Effects
Moderate skin irritant

Severe eye irritant

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

CERCLA Reportable Quantity

Components : acetic acid 5000 lbs

SARA 302 Reportable Quantity

Product : This material does not contain any components with a SARA 302 RQ.

EPCRA - Emergency Planning and Community Right-to-Know Act

SARA 302 : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 304 : This material does not contain any components with a section 304 EHS RQ.

Clean Air Act

Ozone-Depletion Potential : This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

**CINtec PLUS CYTOLOGY CE**

Version 1.2

Revision Date 10-29-2013

Print Date 12-18-2013

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

acetic acid 0.066 %

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

acetic acid

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

acetic acid

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations**California Prop 65 Components**

: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

RED NAPHTHOL

REGULATORY INFORMATION

OSHA Hazards : No OSHA Hazards

WHMIS Classification : Not Rated

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

CERCLA Reportable Quantity**SARA 302 Reportable Quantity**

Product : This material does not contain any components with a SARA 302 RQ.

EPCRA - Emergency Planning and Community Right-to-Know Act

SARA 302 : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**CINtec PLUS CYTOLOGY CE**

Version 1.2

Revision Date 10-29-2013

Print Date 12-18-2013

SARA 304 : This material does not contain any components with a section 304 EHS RQ.

Clean Air Act

Ozone-Depletion Potential : This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

California Prop 65 Components : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

DAB anti-MOUSE HQ LINKER**REGULATORY INFORMATION**

OSHA Hazards : No OSHA Hazards

WHMIS Classification : Not Rated

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

CERCLA Reportable Quantity

Components : sodium hydroxide 1000 lbs

SARA 302 Reportable Quantity

Product : This material does not contain any components with a SARA 302 RQ.

**CINtec PLUS CYTOLOGY CE**

Version 1.2

Revision Date 10-29-2013

Print Date 12-18-2013

EPCRA - Emergency Planning and Community Right-to-Know Act

SARA 302 : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 304 : This material does not contain any components with a section 304 EHS RQ.

Clean Air Act

Ozone-Depletion Potential : This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

sodium hydroxide

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

sodium hydroxide

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

California Prop 65 Components : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

DAB HRP MULTIMER**REGULATORY INFORMATION**

OSHA Hazards : No OSHA Hazards

WHMIS Classification : Not Rated

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

**CINtec PLUS CYTOLOGY CE**

Version 1.2

Revision Date 10-29-2013

Print Date 12-18-2013

CERCLA Reportable Quantity

Components : sodium hydroxide 1000 lbs

SARA 302 Reportable Quantity

Product : This material does not contain any components with a SARA 302 RQ.

EPCRA - Emergency Planning and Community Right-to-Know Act

SARA 302 : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 304 : This material does not contain any components with a section 304 EHS RQ.

Clean Air Act

Ozone-Depletion Potential : This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

sodium hydroxide

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

sodium hydroxide

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

California Prop 65 Components : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance when it is used in the specified applications.

**CINtec PLUS CYTOLOGY CE**

Version 1.2

Revision Date 10-29-2013

Print Date 12-18-2013

16. Other information**Full text of R-Phrases**

R 5	Heating may cause an explosion.
R 8	Contact with combustible material may cause fire.
R20/22	Harmful by inhalation and if swallowed.
R22	Harmful if swallowed.
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R34	Causes burns.
R35	Causes severe burns.
R36/38	Irritating to eyes and skin.
R41	Risk of serious damage to eyes.
R43	May cause sensitisation by skin contact.
R50	Very toxic to aquatic organisms.
R53	May cause long-term adverse effects in the aquatic environment.

Full text of H-Statements

H271	May cause fire or explosion; strong oxidiser.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Eye Dam.	Serious eye damage
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquids
Met. Corr.	Corrosive to metals
Ox. Liq.	Oxidizing liquids
Skin Corr.	Skin corrosion
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitisation
STOT SE	Specific target organ toxicity - single exposure

Further information



CINtec PLUS CYTOLOGY CE

Version 1.2

Revision Date 10-29-2013

Print Date 12-18-2013

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.