



c-MYC (Y69) PAB

Version 1.0

Revision Date 09-25-2013

Print Date 10-16-2013

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

Commercial Product Name : c-MYC (Y69) PAB
 Mat.-No./ Genisys-No. : 06504612001

:

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: (Roche Diagnostics Ltd.)	:	Health, Safety & Environment +44 1444 256500 or +44 7802 260498
	:	- +44 1444 256561 or +44
	:	Product Safety / Vigilance 7710 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

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

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

Remarks : No hazardous ingredients

SECTION 4. FIRST AID MEASURES**4.1 Description of first aid measures**

- General advice : 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 on skin, rinse well with water.
- In case of eye contact : Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Protect unharmed eye.
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

no data 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.

SECTION 5. FIREFIGHTING MEASURES**5.1 Extinguishing media**

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

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5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : No information available.

5.3 Advice for firefighters

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

Further information : Standard procedure for chemical fires.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6. ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

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

6.2 Environmental precautions

Environmental precautions : Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

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

SECTION 7. HANDLING AND STORAGE**7.1 Precautions for safe handling**

Advice on safe handling : For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.

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 : Electrical installations / working materials must comply with the technological safety standards.

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Further information on storage conditions : See label, package insert or internal guidelines
Advice on common storage : No materials to be especially mentioned.
Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : Laboratory chemicals

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Exposure Guidelines**

Contains no substances with occupational exposure limit values.

Personal protective equipment

Eye protection : Safety glasses

Hand protection : 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.

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.

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Skin and body protection	: Protective suit
Respiratory protection	: No personal respiratory protective equipment normally required.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

Appearance	: liquid
pH	: 7.5
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	: 1.016 g/cm ³
Water solubility	: completely miscible
Ignition temperature	: no data available
Thermal decomposition	: no data available

9.2 Other information

no data available

SECTION 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: Stable under recommended storage

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conditions., No hazards to be specially mentioned.

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

Hazardous decomposition products : no data available

SECTION 11. TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects****Product**

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg, Calculation method

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.

Components:**water:**

Acute oral toxicity : LD50 Oral: > 90,000 mg/kg, rat

Acute inhalation toxicity : Acute toxicity estimate: > 30 mg/l, Expert judgement

Acute dermal toxicity : Acute toxicity estimate: > 5,001 mg/kg, Expert judgement

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.


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Aspiration toxicity : No aspiration toxicity classification
trometamol:

Acute oral toxicity : LD50 Oral: 5,900 mg/kg, rat

Acute inhalation toxicity : Acute toxicity estimate: 20 mg/l, dust/mist, Expert judgement

Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg, Expert judgement
Edetic acid disodium salt dihydrate (EDTA-2Na-2H2O):

Acute oral toxicity : LD50 Oral: > 2,000 mg/kg, rat, Test substance: anhydrous substance
 : LD50 Oral: 2,300 mg/kg, rabbit

Acute inhalation toxicity : LC50: 1 - 5 mg/l, 6 h, rat, dust/mist, OECD Test Guideline 403, Test substance: anhydrous substance
 : Acute toxicity estimate: 1.5 mg/l, dust/mist, Expert judgement

Skin corrosion/irritation : This information is not available.

Serious eye damage/eye irritation : This information is not available.

Germ cell mutagenicity

Genotoxicity in vitro : Ames test, In vitro tests did not show mutagenic effects

STOT - single exposure : Remarks: no data available

STOT - repeated exposure : Remarks: no data available

Aspiration toxicity : No aspiration toxicity classification
 Acute effects (Assessment) :
sodium chloride:

Acute oral toxicity : LD50 Oral: 3,000 mg/kg, rat
 : LD50 Oral: 4,000 mg/kg, mouse

Acute inhalation toxicity : Acute toxicity estimate: > 30 mg/l, dust/mist, Expert judgement

Acute dermal toxicity : LD50 Dermal: > 10,000 mg/kg, rabbit

Skin corrosion/irritation : This information is not available.

Serious eye damage/eye irritation : This information is not available.
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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
sodium azide:	
Acute oral toxicity	: LD50 Oral: 27 mg/kg, rat : LD50 Oral: 27 mg/kg, mouse
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

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Product:

Ecotoxicology Assessment

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

Other organisms relevant to the environment : no data available

water:

Toxicity to fish : LC50: > 100 mg/l, 96 h

Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.



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

Other organisms relevant to the environment : no data available

trometamol:

Toxicity to fish : LC50: > 100 mg/l, 96 h, Fish

Toxicity to daphnia and other aquatic invertebrates : EC50: > 100 mg/l, 48 h, Daphnia magna (Water flea)

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

Edetic acid disodium salt dihydrate (EDTA-2Na-2H₂O):

Toxicity to fish : LC50: ca. 320 mg/l, 96 h, Poecilia reticulata (guppy), Test substance: anhydrous substance

: LC50: > 500 mg/l, 96 h, Leuciscus idus (Golden orfe)

Toxicity to daphnia and other aquatic invertebrates : EC50: > 100 mg/l, 24 h, Daphnia

Toxicity to algae : ErC50: > 100 mg/l, 72 h, Desmodesmus subspicatus (green algae)

Toxicity to bacteria : EC50: 56 mg/l, 8 h, Pseudomonas putida, Test substance: anhydrous substance

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

sodium chloride:

Toxicity to fish : LC50: 7,650 mg/l, 96 h, Pimephales promelas (fathead)



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Toxicity to daphnia and other aquatic invertebrates : EC50: 1,000 mg/l, 48 h, Daphnia magna (Water flea)

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

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.

Other organisms relevant to the environment : no data available

sodium azide:

Toxicity to fish : LC50: > 1 mg/l, 96 h, Lepomis macrochirus (Bluegill sunfish)
: LC50: < 8 mg/l, 96 h, Lepomis macrochirus (Bluegill sunfish)
: LC50: 0.7 mg/l, Fish

Toxicity to daphnia and other aquatic invertebrates : EC50: 4.2 mg/l, 96 h, Daphnia pulex (Water flea)

Toxicity to algae : IC50: 272 mg/l, Scenedesmus quadricauda (Green algae)

Toxicity to bacteria : EC50: > 43 mg/l, Photobacterium phosphoreum

: EC50: < 66 mg/l, Photobacterium phosphoreum

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

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

Other organisms relevant to the environment : no data available

12.2 Persistence and degradability**Components:****water:****trometamol:****Edetic acid disodium salt dihydrate (EDTA-2Na-2H₂O):**

Biodegradability : 3 %, Directive 67/548/EEC Annex V, C.4.C., According to the results of tests of biodegradability this product is not readily biodegradable.

sodium chloride:

Biodegradability : The methods for determining biodegradability are not applicable to inorganic substances.

Brij 35:**sodium azide:****12.3 Bioaccumulative potential****water:****trometamol:****Edetic acid disodium salt dihydrate (EDTA-2Na-2H₂O):****sodium chloride:****Brij 35:**

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

sodium azide:**12.4 Mobility in soil****water:****trometamol:****Edetic acid disodium salt dihydrate (EDTA-2Na-2H₂O):**



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sodium chloride:

Brij 35:

sodium azide:

no data available

12.5 Results of PBT and vPvB assessment

water:

trometamol:

Edetic acid disodium salt dihydrate (EDTA-2Na-2H₂O):

sodium chloride:

Brij 35:

sodium azide:

no data available

12.6 Other adverse effects

water:

trometamol:

Edetic acid disodium salt dihydrate (EDTA-2Na-2H₂O):

Biochemical Oxygen Demand (BOD) : 10 mg/g, 5 d

Additional ecological information : no data available

sodium chloride:

Brij 35:

Additional ecological information : no data available

sodium azide:

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods



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Product : Can be disposed as waste water, when in compliance with local regulations.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

DOT

Not dangerous goods

IATA

Not dangerous goods

IMDG

Not dangerous goods

SECTION 15. 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 azide 1000 lbs

SARA 302 Reportable Quantity

Product : Calculated RQ exceeds reasonably attainable upper limit.

Components : sodium azide

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



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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 : sodium azide

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).

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

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

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):

water 90 - 100 %

sodium azide 0 - 0.1 %

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):

sodium azide 0 - 0.1 %

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):

water 90 - 100 %

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



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**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.

16. Other information

Further information

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.