

**KIT COBAS 4800 EGFR AMP/DET 24T RUO**

Version 1.2

Revision Date 12-11-2013

Print Date 06-05-2014

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : KIT COBAS 4800 EGFR AMP/DET 24T RUO

Mat.-No./ Genisys-No. : 06496601190

Manufacturer or supplier's details

Company : Roche Diagnostics

Address : 9115 Hague Road
46250 Indianapolis IN

Telephone : 1-800-428-5074

Emergency telephone number : +49(0)621-759-2012 oder +49(0)621-759-4848 oder
+49(0)8856-60-2629

Emergency telephone number:

In case of emergencies: : CHEMTREC 1-800-424-9300 (U.S. or
Canada)
1-703-527-3887 (International)**Recommended use of the chemical and restrictions on use**

Restrictions on use : For professional users only.

SECTION 2. HAZARDS IDENTIFICATION

Physical state	liquid
----------------	--------

GHS Classification

Not a hazardous substance or mixture.

GHS Label element

Not a hazardous substance or mixture.

Potential Health Effects

Aggravated Medical Condition : None known.

Symptoms of Overexposure : No information available.

Carcinogenicity:

KIT COBAS 4800 EGFR AMP/DET 24T RUO

Version 1.2

Revision Date 12-11-2013

Print Date 06-05-2014

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS
EGFR MMX-1

Substance / Mixture : Preparation

Hazardous components

Chemical Name	CAS-No.	Concentration [%]
glycerol	56-81-5	>= 5 - < 10
dimethyl sulfoxide	67-68-5	>= 1 - < 5

EGFR MMX-2

Substance / Mixture : Preparation

Hazardous components

Chemical Name	CAS-No.	Concentration [%]
glycerol	56-81-5	>= 5 - < 10
dimethyl sulfoxide	67-68-5	>= 1 - < 5

EGFR MMX-3

Substance / Mixture : Preparation

Hazardous components

Chemical Name	CAS-No.	Concentration [%]
glycerol	56-81-5	>= 5 - < 10
dimethyl sulfoxide	67-68-5	>= 1 - < 5

EGFR MC

Substance / Mixture : Preparation

Hazardous components

No hazardous ingredients

MGAC

Substance / Mixture : Preparation

Hazardous components

No hazardous ingredients

DNA SD

Substance / Mixture : Preparation

Hazardous components

No hazardous ingredients

SECTION 4. FIRST AID MEASURES

General advice : Do not leave the victim unattended.

If inhaled : Move to fresh air.

KIT COBAS 4800 EGFR AMP/DET 24T RUO

Version 1.2

Revision Date 12-11-2013

Print Date 06-05-2014

- 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.
- Most important symptoms and effects, both acute and delayed : No information available.
- Notes to physician : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Specific hazards during firefighting : No information available.
- Further information : Standard procedure for chemical fires.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Special protective equipment for firefighters : Wear self contained breathing apparatus for fire fighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : Local authorities should be advised if significant spillages cannot be contained.
- Methods and materials for containment and cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).
Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

KIT COBAS 4800 EGFR AMP/DET 24T RUO

Version 1.2

Revision Date 12-11-2013

Print Date 06-05-2014

- Advice on safe handling : For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
- Conditions for safe storage : Electrical installations / working materials must comply with the technological safety standards.
- Precautionary Statement - Storage : No materials to be especially mentioned.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
EGFR MMX-1
Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
glycerol	56-81-5	TWA (mist, respirable fraction)	5 mg/m ³	OSHA Z-1
		TWA (mist, total dust)	15 mg/m ³	OSHA Z-1
		TWA (Total)	10 mg/m ³	OSHA P0
		TWA (Respirable fraction)	5 mg/m ³	OSHA P0
		TWA	10 mg/m ³	ACGIH
dimethyl sulfoxide	67-68-5	TWA	250 ppm	US WEEL

EGFR MMX-2
Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
glycerol	56-81-5	TWA (mist, respirable fraction)	5 mg/m ³	OSHA Z-1
		TWA (mist, total dust)	15 mg/m ³	OSHA Z-1
		TWA (Total)	10 mg/m ³	OSHA P0
		TWA (Respirable fraction)	5 mg/m ³	OSHA P0
		TWA	10 mg/m ³	ACGIH
dimethyl sulfoxide	67-68-5	TWA	250 ppm	US WEEL

EGFR MMX-3
Components with workplace control parameters

Components	CAS-No.	Value type	Control	Basis
------------	---------	------------	---------	-------

KIT COBAS 4800 EGFR AMP/DET 24T RUO

Version 1.2

Revision Date 12-11-2013

Print Date 06-05-2014

		(Form of exposure)	parameters / Permissible concentration	
glycerol	56-81-5	TWA (mist, respirable fraction)	5 mg/m ³	OSHA Z-1
		TWA (mist, total dust)	15 mg/m ³	OSHA Z-1
		TWA (Total)	10 mg/m ³	OSHA P0
		TWA (Respirable fraction)	5 mg/m ³	OSHA P0
		TWA	10 mg/m ³	ACGIH
dimethyl sulfoxide	67-68-5	TWA	250 ppm	US WEEL

EGFR MC
Components with workplace control parameters

Contains no substances with occupational exposure limit values.

MGAC
Components with workplace control parameters

Contains no substances with occupational exposure limit values.

DNA SD
Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.

Hand protection
Material : Protective gloves

Remarks : 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.

Eye protection : Safety glasses

Skin and body protection : Protective suit

KIT COBAS 4800 EGFR AMP/DET 24T RUO

Version 1.2

Revision Date 12-11-2013

Print Date 06-05-2014

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES***EGFR MMX-1***

Appearance : liquid
Colour : purple
pH : 8.1
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.
Upper explosion limit : no data available
Lower explosion limit : no data available
Density : 1.040 g/cm³
Solubility(ies)
Water solubility : completely miscible
Auto-ignition temperature : no data available
Thermal decomposition : no data available
Oxidizing properties : The substance or mixture is not classified as oxidizing.

EGFR MMX-2

Appearance : liquid
Colour : purple
pH : 8.1
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.
Upper explosion limit : no data available
Lower explosion limit : no data available
Density : 1.040 g/cm³
Solubility(ies)
Water solubility : completely miscible

KIT COBAS 4800 EGFR AMP/DET 24T RUO

Version 1.2

Revision Date 12-11-2013

Print Date 06-05-2014

Auto-ignition temperature : no data available
Thermal decomposition : no data available
Oxidizing properties : The substance or mixture is not classified as oxidizing.

EGFR MMX-3

Appearance : liquid
Colour : purple
pH : 8.1
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.
Upper explosion limit : no data available
Lower explosion limit : no data available
Density : 1.040 g/cm³
Solubility(ies)
Water solubility : completely miscible
Auto-ignition temperature : no data available
Thermal decomposition : no data available
Oxidizing properties : The substance or mixture is not classified as oxidizing.

EGFR MC

Appearance : liquid
Colour : colourless
pH : 8.0
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.
Upper explosion limit : no data available
Lower explosion limit : no data available
Density : 1.006 g/cm³
Solubility(ies)
Water solubility : completely miscible

KIT COBAS 4800 EGFR AMP/DET 24T RUO

Version 1.2

Revision Date 12-11-2013

Print Date 06-05-2014

Auto-ignition temperature : no data available
Thermal decomposition : no data available
Oxidizing properties : The substance or mixture is not classified as oxidizing.

MGAC

Appearance : liquid
Colour : colourless
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.
Upper explosion limit : no data available
Lower explosion limit : no data available
Density : 1.0 g/cm³
Solubility(ies)
Water solubility : completely miscible
Auto-ignition temperature : no data available
Thermal decomposition : no data available
Oxidizing properties : The substance or mixture is not classified as oxidizing.

DNA SD

Appearance : liquid
Colour : colourless
Odour : odourless
pH : 8.7
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.
Upper explosion limit : no data available
Lower explosion limit : no data available
Density : 1 g/cm³
Solubility(ies)
Water solubility : completely miscible

KIT COBAS 4800 EGFR AMP/DET 24T RUO

Version 1.2

Revision Date 12-11-2013

Print Date 06-05-2014

Auto-ignition temperature : no data available
Thermal decomposition : no data available
Oxidizing properties : The substance or mixture is not classified as oxidizing.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.
Chemical stability : Stable under normal conditions.
Possibility of hazardous reactions : Stable under recommended storage conditions.
No hazards to be specially mentioned.
Conditions to avoid : no data available
Incompatible materials : no data available
Hazardous decomposition products : no data available

SECTION 11. TOXICOLOGICAL INFORMATION***EGFR MMX-1*****Acute toxicity****Product:**

Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg
Method: Calculation method
Acute inhalation toxicity : Acute toxicity estimate : 30.24 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Components:**glycerol:**

Acute oral toxicity : LD50 Oral rat: 12,600 mg/kg
LD50 Oral mouse: 4,090 mg/kg
Acute inhalation toxicity : Acute toxicity estimate : > 30 mg/l
Method: Expert judgement
Acute dermal toxicity : LD50 Dermal rabbit: 10,000 mg/kg

dimethyl sulfoxide:

KIT COBAS 4800 EGFR AMP/DET 24T RUO

Version 1.2

Revision Date 12-11-2013

Print Date 06-05-2014

Acute oral toxicity : LD50 Oral rat: 14,500 mg/kg
LD50 Oral mouse: 7,920 mg/kg

Acute inhalation toxicity : Acute toxicity estimate : > 30 mg/l
Test atmosphere: vapour
Method: Expert judgement

Acute dermal toxicity : LD50 Dermal rat: 40,000 mg/kg

Skin corrosion/irritation**Components:****glycerol:**

Remarks: This information is not available.

dimethyl sulfoxide:

Remarks: This information is not available.

Serious eye damage/eye irritation**Components:****glycerol:**

Remarks: This information is not available.

dimethyl sulfoxide:

Remarks: This information is not available.

Respiratory or skin sensitisation**Components:****dimethyl sulfoxide:**

Species: guinea pig

Result: Does not cause skin sensitisation.

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

STOT - single exposure**Components:****glycerol:**

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

dimethyl sulfoxide:

KIT COBAS 4800 EGFR AMP/DET 24T RUO

Version 1.2

Revision Date 12-11-2013

Print Date 06-05-2014

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

STOT - repeated exposure**Components:****glycerol:**

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

dimethyl sulfoxide:

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

Repeated dose toxicity - Assessment : Mild eye irritant, Mild respiratory irritant, No skin irritation

Repeated dose toxicity - Assessment : Mild eye irritation, Mild skin irritation

Aspiration toxicity**Components:****glycerol:**

no data available

dimethyl sulfoxide:

no data available

EGFR MMX-2**Acute toxicity****Product:**

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

Acute inhalation toxicity : Acute toxicity estimate : 30.24 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Components:**glycerol:**

Acute oral toxicity : LD50 Oral rat: 12,600 mg/kg

LD50 Oral mouse: 4,090 mg/kg

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

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

KIT COBAS 4800 EGFR AMP/DET 24T RUO

Version 1.2

Revision Date 12-11-2013

Print Date 06-05-2014

dimethyl sulfoxide:

Acute oral toxicity : LD50 Oral rat: 14,500 mg/kg

LD50 Oral mouse: 7,920 mg/kg

Acute inhalation toxicity

: Acute toxicity estimate : > 30 mg/l
Test atmosphere: vapour
Method: Expert judgement

Acute dermal toxicity

: LD50 Dermal rat: 40,000 mg/kg

Skin corrosion/irritation**Components:****glycerol:**

Remarks: This information is not available.

dimethyl sulfoxide:

Remarks: This information is not available.

Serious eye damage/eye irritation**Components:****glycerol:**

Remarks: This information is not available.

dimethyl sulfoxide:

Remarks: This information is not available.

Respiratory or skin sensitisation**Components:****dimethyl sulfoxide:**

Species: guinea pig

Result: Does not cause skin sensitisation.

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

STOT - single exposure**Components:****glycerol:**

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

KIT COBAS 4800 EGFR AMP/DET 24T RUO

Version 1.2

Revision Date 12-11-2013

Print Date 06-05-2014

dimethyl sulfoxide:

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

STOT - repeated exposure**Components:****glycerol:**

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

dimethyl sulfoxide:

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

Repeated dose toxicity - Assessment : Mild eye irritant, Mild respiratory irritant, No skin irritation

Repeated dose toxicity - Assessment : Mild eye irritation, Mild skin irritation

Aspiration toxicity**Components:****glycerol:**

no data available

dimethyl sulfoxide:

no data available

EGFR MMX-3**Acute toxicity****Product:**

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

Acute inhalation toxicity : Acute toxicity estimate : 30.24 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Components:**glycerol:**

Acute oral toxicity : LD50 Oral rat: 12,600 mg/kg

LD50 Oral mouse: 4,090 mg/kg

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

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

KIT COBAS 4800 EGFR AMP/DET 24T RUO

Version 1.2

Revision Date 12-11-2013

Print Date 06-05-2014

dimethyl sulfoxide:

Acute oral toxicity : LD50 Oral rat: 14,500 mg/kg

LD50 Oral mouse: 7,920 mg/kg

Acute inhalation toxicity : Acute toxicity estimate : > 30 mg/l
Test atmosphere: vapour
Method: Expert judgement

Acute dermal toxicity : LD50 Dermal rat: 40,000 mg/kg

Skin corrosion/irritation**Components:****glycerol:**

Remarks: This information is not available.

dimethyl sulfoxide:

Remarks: This information is not available.

Serious eye damage/eye irritation**Components:****glycerol:**

Remarks: This information is not available.

dimethyl sulfoxide:

Remarks: This information is not available.

Respiratory or skin sensitisation**Components:****dimethyl sulfoxide:**

Species: guinea pig

Result: Does not cause skin sensitisation.

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

STOT - single exposure**Components:****glycerol:**

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

KIT COBAS 4800 EGFR AMP/DET 24T RUO

Version 1.2

Revision Date 12-11-2013

Print Date 06-05-2014

exposure.

dimethyl sulfoxide:

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

STOT - repeated exposure**Components:****glycerol:**

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

dimethyl sulfoxide:

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

Repeated dose toxicity - Assessment : Mild eye irritant, Mild respiratory irritant, No skin irritation

Repeated dose toxicity - Assessment : Mild eye irritation, Mild skin irritation

Aspiration toxicity**Components:****glycerol:**

no data available

dimethyl sulfoxide:

no data available

EGFR MC**Acute toxicity****Product:**Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg
Method: Calculation methodAcute inhalation toxicity : Acute toxicity estimate : 30.04 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method**Skin corrosion/irritation**

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitisation

no data available

Germ cell mutagenicity

KIT COBAS 4800 EGFR AMP/DET 24T RUO

Version 1.2

Revision Date 12-11-2013

Print Date 06-05-2014

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

STOT - single exposure

no data available

STOT - repeated exposure

no data available

Aspiration toxicity

no data available

MGAC

Acute toxicity

Product:

Acute inhalation toxicity : Acute toxicity estimate : 30.03 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitisation

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

STOT - single exposure

no data available

STOT - repeated exposure

no data available

Aspiration toxicity

no data available

KIT COBAS 4800 EGFR AMP/DET 24T RUO

Version 1.2

Revision Date 12-11-2013

Print Date 06-05-2014

DNA SD**Acute toxicity****Product:**

Acute inhalation toxicity : Acute toxicity estimate : 30.05 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitisation

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

STOT - single exposure

no data available

STOT - repeated exposure

no data available

Aspiration toxicity

no data available

SECTION 12. ECOLOGICAL INFORMATION***EGFR MMX-1*****Ecotoxicity****Product:**

Ecotoxicology Assessment

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

Other organisms relevant to the environment : no data available

Components:**glycerol :**

Toxicity to fish : LC50 : > 100 mg/l

KIT COBAS 4800 EGFR AMP/DET 24T RUO

Version 1.2

Revision Date 12-11-2013

Print Date 06-05-2014

	Exposure time: 96 h
Toxicity to algae	: EC0 (Scenedesmus quadricauda (Green algae)): > 10,000 mg/l Exposure time: 7 d
Toxicity to bacteria	: EC0 (Pseudomonas putida): > 10,000 mg/l Exposure time: 16 h
Toxicity to fish (Chronic toxicity) Ecotoxicology Assessment	: > 1 mg/l
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
dimethyl sulfoxide :	
Toxicity to fish	: LC50 (Fish): 32,500 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 24,600 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to bacteria	: EC50 (Photobacterium phosphoreum): ca. 70,000 mg/l Exposure time: 0.25 h
Ecotoxicology Assessment	
Toxicity Data on Soil	: Not expected to adsorb on soil.
Other organisms relevant to the environment	: no data available

Persistence and degradability
Components:
glycerol :

Biodegradability : Remarks: The product is miscible in water and readily biodegradable in both water and soil. Accumulation is not expected.

dimethyl sulfoxide :

Biodegradability : Biodegradation: 4 %
Exposure time: 1 d

Biodegradation: 6 %
Exposure time: 8 d

Biodegradation: 29 %
Exposure time: 15 d

Biodegradation: 90 %

KIT COBAS 4800 EGFR AMP/DET 24T RUO

Version 1.2

Revision Date 12-11-2013

Print Date 06-05-2014

Exposure time: 28 d
Method: OECD Test Guideline 302

Bioaccumulative potential
Components:
glycerol :

Partition coefficient: n-octanol/water : log Pow: -2.66

dimethyl sulfoxide :

Partition coefficient: n-octanol/water : log Pow: -1.35

Mobility in soil

no data available

Other adverse effects

no data available

Product:

Regulation

40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
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).

Remarks

EGFR MMX-2
Ecotoxicity
Product:

Ecotoxicology Assessment

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

Other organisms relevant to the environment : no data available

Components:
glycerol :

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

Toxicity to algae : EC0 (Scenedesmus quadricauda (Green algae)): > 10,000 mg/l
Exposure time: 7 d

Toxicity to bacteria : EC0 (Pseudomonas putida): > 10,000 mg/l
Exposure time: 16 h

Toxicity to fish (Chronic toxicity) : > 1 mg/l

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.

KIT COBAS 4800 EGFR AMP/DET 24T RUO

Version 1.2

Revision Date 12-11-2013

Print Date 06-05-2014

Other organisms relevant to the environment : no data available

dimethyl sulfoxide :

Toxicity to fish : LC50 (Fish): 32,500 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 24,600 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to bacteria : EC50 (Photobacterium phosphoreum): ca. 70,000 mg/l
Exposure time: 0.25 h

Ecotoxicology Assessment

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

Other organisms relevant to the environment : no data available

Persistence and degradability**Components:****glycerol :**

Biodegradability : Remarks: The product is miscible in water and readily biodegradable in both water and soil. Accumulation is not expected.

dimethyl sulfoxide :

Biodegradability : Biodegradation: 4 %
Exposure time: 1 d

Biodegradation: 6 %
Exposure time: 8 d

Biodegradation: 29 %
Exposure time: 15 d

Biodegradation: 90 %
Exposure time: 28 d
Method: OECD Test Guideline 302

Bioaccumulative potential**Components:****glycerol :**

Partition coefficient: n-octanol/water : log Pow: -2.66

dimethyl sulfoxide :

Partition coefficient: n-octanol/water : log Pow: -1.35

Mobility in soil

no data available

Other adverse effects

no data available

KIT COBAS 4800 EGFR AMP/DET 24T RUO

Version 1.2

Revision Date 12-11-2013

Print Date 06-05-2014

Product:

Regulation	40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks	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).

EGFR MMX-3**Ecotoxicity****Product:**

Ecotoxicology Assessment

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

Other organisms relevant to the environment : no data available

Components:**glycerol :**Toxicity to fish : LC50 : > 100 mg/l
Exposure time: 96 hToxicity to algae : EC0 (Scenedesmus quadricauda (Green algae)): > 10,000 mg/l
Exposure time: 7 dToxicity to bacteria : EC0 (Pseudomonas putida): > 10,000 mg/l
Exposure time: 16 h

Toxicity to fish (Chronic toxicity) : > 1 mg/l

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

dimethyl sulfoxide :Toxicity to fish : LC50 (Fish): 32,500 mg/l
Exposure time: 96 hToxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 24,600 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202Toxicity to bacteria : EC50 (Photobacterium phosphoreum): ca. 70,000 mg/l
Exposure time: 0.25 h

Ecotoxicology Assessment

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

KIT COBAS 4800 EGFR AMP/DET 24T RUO

Version 1.2

Revision Date 12-11-2013

Print Date 06-05-2014

Other organisms relevant to the environment : no data available

Persistence and degradability
Components:
glycerol :

Biodegradability : Remarks: The product is miscible in water and readily biodegradable in both water and soil. Accumulation is not expected.

dimethyl sulfoxide :

Biodegradability : Biodegradation: 4 %
Exposure time: 1 d

Biodegradation: 6 %
Exposure time: 8 d

Biodegradation: 29 %
Exposure time: 15 d

Biodegradation: 90 %
Exposure time: 28 d
Method: OECD Test Guideline 302

Bioaccumulative potential
Components:
glycerol :

Partition coefficient: n-octanol/water : log Pow: -2.66

dimethyl sulfoxide :

Partition coefficient: n-octanol/water : log Pow: -1.35

Mobility in soil

no data available

Other adverse effects

no data available

Product:

Regulation

40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
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).

Remarks

EGFR MC
Ecotoxicity
Product:

Ecotoxicology Assessment

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

Other organisms relevant to : no data available



KIT COBAS 4800 EGFR AMP/DET 24T RUO

Version 1.2

Revision Date 12-11-2013

Print Date 06-05-2014

the environment

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

Other adverse effects

no data available

Product:

Regulation

40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks

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).

MGAC

Ecotoxicity

Product:

Ecotoxicology Assessment

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

Other organisms relevant to the environment : no data available

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

Other adverse effects

no data available

Product:

Regulation

40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks

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).

DNA SD

Ecotoxicity

Product:

KIT COBAS 4800 EGFR AMP/DET 24T RUO

Version 1.2

Revision Date 12-11-2013

Print Date 06-05-2014

Ecotoxicology Assessment

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

Other organisms relevant to the environment : no data available

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

Other adverse effects

no data available

Product:

Regulation

40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks

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).

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : 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**International regulation****IATA-DGR**

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

National Regulations**49 CFR**


KIT COBAS 4800 EGFR AMP/DET 24T RUO

Version 1.2

Revision Date 12-11-2013

Print Date 06-05-2014

Not regulated as a dangerous good

Special precautions for user

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

SECTION 15. REGULATORY INFORMATION
EGFR MMX-1

OSHA Hazards : No OSHA Hazards

WHMIS Classification : Not Rated

EPCRA - Emergency Planning and Community Right-to-Know Act
CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Sodium azide	26628-22-8	1000	
sodium azide	26628-22-8	1000	

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

SARA 313 : 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.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

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):

glycerol	56-81-5	6.35 %
dimethyl sulfoxide	67-68-5	3.31 %

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


KIT COBAS 4800 EGFR AMP/DET 24T RUO

Version 1.2

Revision Date 12-11-2013

Print Date 06-05-2014

Massachusetts Right To Know

glycerol	56-81-5	5 - 10 %
sodium azide	26628-22-8	0 - 0.1 %

Pennsylvania Right To Know

water	7732-18-5	70 - 90 %
glycerol	56-81-5	5 - 10 %
dimethyl sulfoxide	67-68-5	1 - 5 %
sodium azide	26628-22-8	0 - 0.1 %

New Jersey Right To Know

water	7732-18-5	70 - 90 %
glycerol	56-81-5	5 - 10 %
dimethyl sulfoxide	67-68-5	1 - 5 %
potassium chloride	7447-40-7	1 - 5 %
2-amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	1185-53-1	1 - 5 %

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

Inventories

AICS (Australia), DSL (Canada), IECSC (China), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

EGFR MMX-2

OSHA Hazards : No OSHA Hazards

WHMIS Classification : Not Rated

EPCRA - Emergency Planning and Community Right-to-Know Act
CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Sodium azide	26628-22-8	1000	
sodium azide	26628-22-8	1000	

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

SARA 313 : 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.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).


KIT COBAS 4800 EGFR AMP/DET 24T RUO

Version 1.2

Revision Date 12-11-2013

Print Date 06-05-2014

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):

glycerol	56-81-5	6.35 %
dimethyl sulfoxide	67-68-5	3.31 %

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
Massachusetts Right To Know

glycerol	56-81-5	5 - 10 %
sodium azide	26628-22-8	0 - 0.1 %

Pennsylvania Right To Know

water	7732-18-5	70 - 90 %
glycerol	56-81-5	5 - 10 %
dimethyl sulfoxide	67-68-5	1 - 5 %
sodium azide	26628-22-8	0 - 0.1 %

New Jersey Right To Know

water	7732-18-5	70 - 90 %
glycerol	56-81-5	5 - 10 %
dimethyl sulfoxide	67-68-5	1 - 5 %
potassium chloride	7447-40-7	1 - 5 %
2-amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	1185-53-1	1 - 5 %

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

Inventories

AICS (Australia), DSL (Canada), IECSC (China), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

EGFR MMX-3

OSHA Hazards : No OSHA Hazards

WHMIS Classification : Not Rated

EPCRA - Emergency Planning and Community Right-to-Know Act
CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Sodium azide	26628-22-8	1000	

KIT COBAS 4800 EGFR AMP/DET 24T RUO

Version 1.2

Revision Date 12-11-2013

Print Date 06-05-2014

sodium azide	26628-22-8	1000
--------------	------------	------

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

SARA 313 : 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.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

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):

glycerol	56-81-5	6.35 %
dimethyl sulfoxide	67-68-5	3.31 %

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
Massachusetts Right To Know

glycerol	56-81-5	5 - 10 %
sodium azide	26628-22-8	0 - 0.1 %

Pennsylvania Right To Know

water	7732-18-5	70 - 90 %
glycerol	56-81-5	5 - 10 %
dimethyl sulfoxide	67-68-5	1 - 5 %
sodium azide	26628-22-8	0 - 0.1 %

New Jersey Right To Know

water	7732-18-5	70 - 90 %
glycerol	56-81-5	5 - 10 %
dimethyl sulfoxide	67-68-5	1 - 5 %
potassium chloride	7447-40-7	1 - 5 %
2-amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	1185-53-1	1 - 5 %

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

Inventories

AICS (Australia), DSL (Canada), IECSC (China), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)


KIT COBAS 4800 EGFR AMP/DET 24T RUO

Version 1.2

Revision Date 12-11-2013

Print Date 06-05-2014

EGFR MC
OSHA Hazards : No OSHA Hazards

WHMIS Classification : Not Rated

EPCRA - Emergency Planning and Community Right-to-Know Act
CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Sodium azide	26628-22-8	1000	
sodium azide	26628-22-8	1000	

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

SARA 313 : 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.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

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).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489).

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
Massachusetts Right To Know

sodium azide 26628-22-8 0 - 0.1 %

Pennsylvania Right To Know

water 7732-18-5 90 - 100 %
sodium azide 26628-22-8 0 - 0.1 %

New Jersey Right To Know

water 7732-18-5 90 - 100 %


KIT COBAS 4800 EGFR AMP/DET 24T RUO

Version 1.2

Revision Date 12-11-2013

Print Date 06-05-2014

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

Inventories

AICS (Australia), DSL (Canada), IECSC (China), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

MGAC

OSHA Hazards : No OSHA Hazards

WHMIS Classification : Not Rated

EPCRA - Emergency Planning and Community Right-to-Know Act
CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Sodium azide	26628-22-8	1000	
sodium azide	26628-22-8	1000	

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

SARA 313 : 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.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

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).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

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
Massachusetts Right To Know

sodium azide 26628-22-8 0 - 0.1 %

Pennsylvania Right To Know

water 7732-18-5 90 - 100 %


KIT COBAS 4800 EGFR AMP/DET 24T RUO

Version 1.2

Revision Date 12-11-2013

Print Date 06-05-2014

sodium azide

26628-22-8 0 - 0.1 %

New Jersey Right To Know

water

7732-18-5 90 - 100 %

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

Inventories

AICS (Australia), DSL (Canada), IECSC (China), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

DNA SD

OSHA Hazards : No OSHA Hazards

WHMIS Classification : Not Rated

EPCRA - Emergency Planning and Community Right-to-Know Act
CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Sodium azide	26628-22-8	1000	
sodium azide	26628-22-8	1000	

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

SARA 313 : 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.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

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).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489).

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
Massachusetts Right To Know

KIT COBAS 4800 EGFR AMP/DET 24T RUO

Version 1.2

Revision Date 12-11-2013

Print Date 06-05-2014

sodium azide

26628-22-8 0 - 0.1 %

Pennsylvania Right To Know

water

7732-18-5 90 - 100 %

sodium azide

26628-22-8 0 - 0.1 %

New Jersey Right To Know

water

7732-18-5 90 - 100 %

California Prop 65

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

Inventories

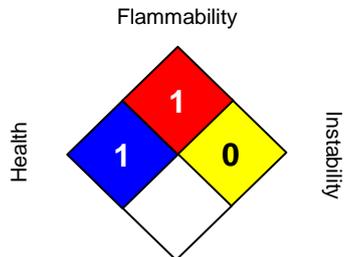
AICS (Australia), DSL (Canada), IECSC (China), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

SECTION 16. OTHER INFORMATION

Further information

EGFR MMX-1

NFPA:



HMIS III:

HEALTH	0
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

EGFR MMX-2

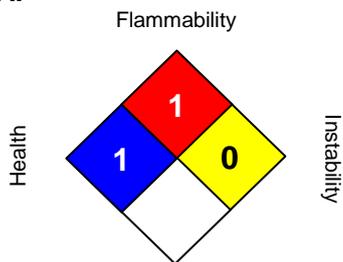
KIT COBAS 4800 EGFR AMP/DET 24T RUO

Version 1.2

Revision Date 12-11-2013

Print Date 06-05-2014

NFPA:



Special hazard.

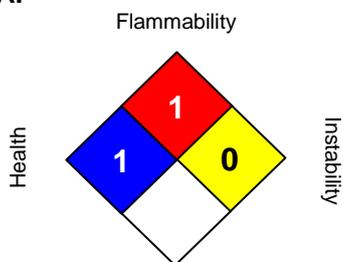
HMIS III:

HEALTH	0
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

EGFR MMX-3

NFPA:



Special hazard.

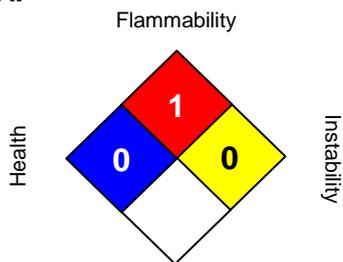
HMIS III:

HEALTH	0
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

EGFR MC

NFPA:



Special hazard.

HMIS III:

HEALTH	0
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

MGAC

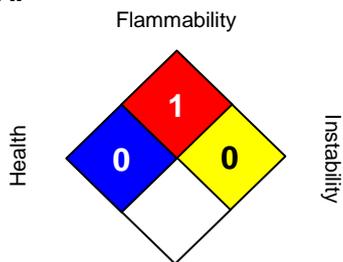
KIT COBAS 4800 EGFR AMP/DET 24T RUO

Version 1.2

Revision Date 12-11-2013

Print Date 06-05-2014

NFPA:



Special hazard.

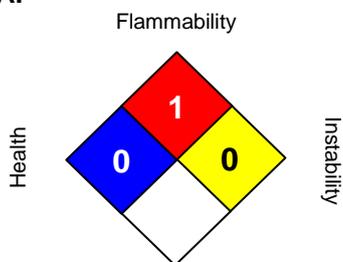
HMIS III:

HEALTH	0
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

DNA SD

NFPA:



Special hazard.

HMIS III:

HEALTH	0
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

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.