

**KIT CA-SCRN HBV AMP/DET 96T US-IVD**

Version 1.2

Revision Date 06-10-2014

Print Date 06-23-2014

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : KIT CA-SCRN HBV AMP/DET 96T US-IVD  
Mat.-No./ Genisys-No. : 03599779190

**Manufacturer or supplier's details**

Company : Roche Diagnostics  
-

Address : 9115 Hague Road  
46250 Indianapolis IN

Telephone : 1-800-428-5074

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**

The product is a kit consisting of individual ingredients. The classification of the ingredients can be obtained from section 3. Section Label elements contains the resulting labelling for the kit.

**GHS Label element**

Hazard pictograms



Signal word : Danger

Hazard statements : H290 May be corrosive to metals.  
H314 Causes severe skin burns and eye damage.  
H360 May damage fertility or the unborn child.

Precautionary statements : **Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P234 Keep only in original container.  
P264 Wash skin thoroughly after handling.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
**Response:**  
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off

**KIT CA-SCRN HBV AMP/DET 96T US-IVD**

Version 1.2

Revision Date 06-10-2014

Print Date 06-23-2014

immediately all contaminated clothing. Rinse skin with water/ shower.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/ physician.

P363 Wash contaminated clothing before reuse.

P390 Absorb spillage to prevent material damage.

**Storage:**

P405 Store locked up.

P406 Store in corrosive resistant stainless steel container with a resistant inner liner.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

**Potential Health Effects**

Aggravated Medical Condition : None known.

Symptoms of Overexposure : No information available.

**Carcinogenicity:****SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS****HBV MMX****GHS Classification**

Not a hazardous substance or mixture.

**Hazardous components**

| Chemical Name | CAS-No. | Concentration (%) |
|---------------|---------|-------------------|
| glycerol      | 56-81-5 | >= 5 - < 10       |

**HBV Mg2+****GHS Classification**

Not a hazardous substance or mixture.

**Hazardous components**

No hazardous ingredients

**BH PS1****GHS Classification**

Not a hazardous substance or mixture.

**Hazardous components**

No hazardous ingredients

**BH 4**

**KIT CA-SCRN HBV AMP/DET 96T US-IVD**

Version 1.2

Revision Date 06-10-2014

Print Date 06-23-2014

**GHS Classification**

Not a hazardous substance or mixture.

**Hazardous components**

| Chemical Name      | CAS-No.  | Concentration (%) |
|--------------------|----------|-------------------|
| sodium thiocyanate | 540-72-7 | >= 20 - < 30      |

**BI PS1****GHS Classification**

Not a hazardous substance or mixture.

**Hazardous components**

No hazardous ingredients

**BI4****GHS Classification**

Not a hazardous substance or mixture.

**Hazardous components**

| Chemical Name      | CAS-No.  | Concentration (%) |
|--------------------|----------|-------------------|
| sodium thiocyanate | 540-72-7 | >= 20 - < 30      |

**DN 4****GHS Classification**

Corrosive to metals : Category 1

Skin corrosion : Category 1A

Serious eye damage : Category 1

**Hazardous components**

| Chemical Name    | CAS-No.   | Concentration (%) |
|------------------|-----------|-------------------|
| sodium hydroxide | 1310-73-2 | >= 1 - < 5        |

**CN 4****GHS Classification**

Not a hazardous substance or mixture.

**Hazardous components**

| Chemical Name | CAS-No.  | Concentration (%) |
|---------------|----------|-------------------|
| phenol        | 108-95-2 | >= 0.1 - < 1      |

**SB 3****GHS Classification**

Not a hazardous substance or mixture.

**Hazardous components**

No hazardous ingredients

**SB**

**KIT CA-SCRN HBV AMP/DET 96T US-IVD**

Version 1.2

Revision Date 06-10-2014

Print Date 06-23-2014

**GHS Classification**

Eye irritation : Category 2A

Reproductive toxicity : Category 1A

**Hazardous components**

| Chemical Name         | CAS-No. | Concentration (%) |
|-----------------------|---------|-------------------|
| N,N-dimethylformamide | 68-12-2 | >= 30 - < 50      |

**SECTION 4. 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 : Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.  
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.
- If swallowed : 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.
- 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

**KIT CA-SCRN HBV AMP/DET 96T US-IVD**

Version 1.2

Revision Date 06-10-2014

Print Date 06-23-2014

circumstances and the surrounding environment.

- |                                               |                                                                                                                                                                                                                           |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Unsuitable extinguishing media                | : High volume water jet                                                                                                                                                                                                   |
| Specific hazards during firefighting          | : Do not allow run-off from fire fighting to enter drains or water courses.                                                                                                                                               |
| Further information                           | : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.<br>Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |
| Special protective equipment for firefighters | : Wear self-contained breathing apparatus for firefighting if necessary.                                                                                                                                                  |

---

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- |                                                                     |                                                                                                                                                                                       |
|---------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions, protective equipment and emergency procedures | : Use personal protective equipment.<br>Refer to protective measures listed in sections 7 and 8.                                                                                      |
| Environmental precautions                                           | : Prevent product from entering drains.<br>Prevent further leakage or spillage if safe to do so.<br>Local authorities should be advised if significant spillages cannot be contained. |
| Methods and materials for containment and cleaning up               | : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).<br>Keep in suitable, closed containers for disposal.                         |

---

**SECTION 7. HANDLING AND STORAGE**

- |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Advice on safe handling     | : Do not breathe vapours/dust.<br>Avoid exposure - obtain special instructions before use.<br>Avoid contact with skin and eyes.<br>For personal protection see section 8.<br>Smoking, eating and drinking should be prohibited in the application area.<br>Dispose of rinse water in accordance with local and national regulations.<br>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.<br>To prevent leaks or spillages from spreading, provide a suitable liquid retention system. |
| Conditions for safe storage | : Keep container tightly closed in a dry and well-ventilated place.<br>Containers which are opened must be carefully resealed and kept upright to prevent leakage.<br>Observe label precautions.<br>Electrical installations / working materials must comply with the technological safety standards.                                                                                                                                                                                                                                                                                                                             |

**KIT CA-SCRN HBV AMP/DET 96T US-IVD**

Version 1.2

Revision Date 06-10-2014

Print Date 06-23-2014

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION*****HBV MMX*****Components with workplace control parameters**

| Components | CAS-No. | Value type<br>(Form of exposure) | Control parameters /<br>Permissible concentration | Basis    |
|------------|---------|----------------------------------|---------------------------------------------------|----------|
| glycerol   | 56-81-5 | TWA (mist, respirable fraction)  | 5 mg/m <sup>3</sup>                               | OSHA Z-1 |
|            |         | TWA (mist, total dust)           | 15 mg/m <sup>3</sup>                              | OSHA Z-1 |
|            |         | TWA (Mist - total dust)          | 10 mg/m <sup>3</sup>                              | OSHA P0  |
|            |         | TWA (Mist - respirable fraction) | 5 mg/m <sup>3</sup>                               | OSHA P0  |

***HBV Mg2+*****Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

***BH PS1*****Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

***BH 4*****Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

***BI PS1*****Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

***BI4*****Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

***DN 4*****Components with workplace control parameters**

| Components       | CAS-No.   | Value type<br>(Form of exposure) | Control parameters /<br>Permissible concentration | Basis |
|------------------|-----------|----------------------------------|---------------------------------------------------|-------|
| sodium hydroxide | 1310-73-2 | C                                | 2 mg/m <sup>3</sup>                               | ACGIH |

**KIT CA-SCRN HBV AMP/DET 96T US-IVD**

Version 1.2

Revision Date 06-10-2014

Print Date 06-23-2014

|  |  |     |         |           |
|--|--|-----|---------|-----------|
|  |  | C   | 2 mg/m3 | NIOSH REL |
|  |  | TWA | 2 mg/m3 | OSHA Z-1  |
|  |  | C   | 2 mg/m3 | OSHA P0   |

**CN 4****Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

**SB 3****Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

**SB****Components with workplace control parameters**

| Components            | CAS-No. | Value type<br>(Form of exposure) | Control parameters /<br>Permissible concentration | Basis     |
|-----------------------|---------|----------------------------------|---------------------------------------------------|-----------|
| N,N-dimethylformamide | 68-12-2 | TWA                              | 10 ppm                                            | ACGIH     |
|                       |         | TWA                              | 10 ppm<br>30 mg/m3                                | NIOSH REL |
|                       |         | TWA                              | 10 ppm<br>30 mg/m3                                | OSHA Z-1  |
|                       |         | TWA                              | 10 ppm<br>30 mg/m3                                | OSHA P0   |

**Biological occupational exposure limits**

| Components            | CAS-No. | Control parameters                      | Biological specimen | Sampling time                                            | Permissible concentration | Basis     |
|-----------------------|---------|-----------------------------------------|---------------------|----------------------------------------------------------|---------------------------|-----------|
| N,N-Dimethylformamide | 68-12-2 | N-Methylformamide                       | Urine               | End of shift (As soon as possible after exposure ceases) | 15 mg/l                   | ACGIH BEI |
|                       |         | N-Acetyl-S-(N-methylcarbamoyl) cysteine | Urine               | Prior to last shift of workweek                          | 40 mg/l                   | ACGIH BEI |

**Personal protective equipment**

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

Hand protection  
Material : Protective gloves

Remarks : The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard

**KIT CA-SCRN HBV AMP/DET 96T US-IVD**

Version 1.2

Revision Date 06-10-2014

Print Date 06-23-2014

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

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES*****HBV MMX***

- Appearance : liquid
- pH : 8.8
- 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 : 1.013 g/cm<sup>3</sup>
- Solubility(ies)  
Water solubility : completely miscible
- Auto-ignition temperature : No data available
- Thermal decomposition : No data available

***HBV Mg2+***

- Appearance : liquid
- pH : 6.6

**KIT CA-SCRN HBV AMP/DET 96T US-IVD**

Version 1.2

Revision Date 06-10-2014

Print Date 06-23-2014

|                             |                                 |
|-----------------------------|---------------------------------|
| 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             |
| Solubility(ies)             |                                 |
| Water solubility            | : completely miscible           |
| Auto-ignition temperature   | : No data available             |
| Thermal decomposition       | : No data available             |

***BH PS1***

|                             |                                 |
|-----------------------------|---------------------------------|
| Appearance                  | : liquid                        |
| pH                          | : 9.5                           |
| 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             |
| Solubility(ies)             |                                 |
| Water solubility            | : completely miscible           |
| Auto-ignition temperature   | : No data available             |
| Thermal decomposition       | : No data available             |

***BH 4***

|                             |                                 |
|-----------------------------|---------------------------------|
| Appearance                  | : liquid                        |
| pH                          | : 5.0                           |
| 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. |

**KIT CA-SCRN HBV AMP/DET 96T US-IVD**

Version 1.2

Revision Date 06-10-2014

Print Date 06-23-2014

Upper explosion limit : No data available

Lower explosion limit : No data available

Solubility(ies)  
Water solubility : completely miscible

Auto-ignition temperature : No data available

Thermal decomposition : No data available

**BI PS1**

Appearance : liquid

pH : 9.5

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

Solubility(ies)  
Water solubility : completely miscible

Auto-ignition temperature : No data available

Thermal decomposition : No data available

**BI4**

Appearance : liquid

pH : 5.0

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

Solubility(ies)  
Water solubility : completely miscible

Auto-ignition temperature : No data available

**KIT CA-SCRN HBV AMP/DET 96T US-IVD**

Version 1.2

Revision Date 06-10-2014

Print Date 06-23-2014

Thermal decomposition : No data available

**DN 4**

Appearance : liquid

pH : 12.6

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

Solubility(ies)  
Water solubility : completely miscible

Auto-ignition temperature : No data available

Thermal decomposition : No data available

**CN 4**

Appearance : liquid

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

Solubility(ies)  
Water solubility : completely miscible

Auto-ignition temperature : No data available

Thermal decomposition : No data available

**SB 3**

Appearance : liquid

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : does not flash

**KIT CA-SCRN HBV AMP/DET 96T US-IVD**

Version 1.2

Revision Date 06-10-2014

Print Date 06-23-2014

Flammability (solid, gas) : The product is not flammable.

Upper explosion limit : No data available

Lower explosion limit : No data available

Solubility(ies)  
Water solubility : completely miscible

Auto-ignition temperature : No data available

Thermal decomposition : No data available

**SB**

Appearance : liquid

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

Solubility(ies)  
Water solubility : completely miscible

Auto-ignition temperature : No data available

Thermal decomposition : No data available

---

**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 : No dangerous reaction known under conditions of normal use.

No decomposition if stored and applied as directed.

Conditions to avoid : No data available

Incompatible materials : No data available

Hazardous decomposition products : No data available

**KIT CA-SCRN HBV AMP/DET 96T US-IVD**

Version 1.2

Revision Date 06-10-2014

Print Date 06-23-2014

**SECTION 11. TOXICOLOGICAL INFORMATION****HBV MMX****Acute toxicity**

Not classified based on available information.

**Product:**

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

**Skin corrosion/irritation**

Not classified based on available information.

**Serious eye damage/eye irritation**

Not classified based on available information.

**Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

Not classified based on available information.

**Reproductive toxicity**

Not classified based on available information.

**STOT - single exposure**

Not classified based on available information.

**STOT - repeated exposure**

Not classified based on available information.

**Components:****glycerol:**

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

**Aspiration toxicity**

Not classified based on available information.

**HBV Mg2+**

**KIT CA-SCRN HBV AMP/DET 96T US-IVD**

Version 1.2

Revision Date 06-10-2014

Print Date 06-23-2014

**Acute toxicity**

Not classified based on available information.

**Product:**

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

**Skin corrosion/irritation**

Not classified based on available information.

**Serious eye damage/eye irritation**

Not classified based on available information.

**Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

Not classified based on available information.

**Reproductive toxicity**

Not classified based on available information.

**STOT - single exposure**

Not classified based on available information.

**STOT - repeated exposure**

Not classified based on available information.

**Aspiration toxicity**

Not classified based on available information.

***BH PS1*****Acute toxicity**

Not classified based on available information.

**Product:**

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

**Skin corrosion/irritation**

Not classified based on available information.

**Serious eye damage/eye irritation**

Not classified based on available information.

**Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

Not classified based on available information.

**KIT CA-SCRN HBV AMP/DET 96T US-IVD**

Version 1.2

Revision Date 06-10-2014

Print Date 06-23-2014

**Reproductive toxicity**

Not classified based on available information.

**STOT - single exposure**

Not classified based on available information.

**STOT - repeated exposure**

Not classified based on available information.

**Aspiration toxicity**

Not classified based on available information.

**BH 4****Acute toxicity**

Not classified based on available information.

**Product:**

Acute oral toxicity : Acute toxicity estimate : 3,470 mg/kg  
Method: Calculation method

**Components:****sodium thiocyanate:**

Acute oral toxicity : LD50 Oral (rat): 764 mg/kg  
LD50 Oral (mouse): 360 mg/kg

**Skin corrosion/irritation**

Not classified based on available information.

**Components:****sodium thiocyanate:**

Remarks: This information is not available.

**Serious eye damage/eye irritation**

Not classified based on available information.

**Components:****sodium thiocyanate:**

Remarks: This information is not available.

**Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

Not classified based on available information.

**Reproductive toxicity**

Not classified based on available information.

**STOT - single exposure**

Not classified based on available information.

**KIT CA-SCRN HBV AMP/DET 96T US-IVD**

Version 1.2

Revision Date 06-10-2014

Print Date 06-23-2014

**Components:****sodium thiocyanate:**

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

**STOT - repeated exposure**

Not classified based on available information.

**Components:****sodium thiocyanate:**

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

**Aspiration toxicity**

Not classified based on available information.

**Components:****sodium thiocyanate:**

No data available

***BI PS1*****Acute toxicity**

Not classified based on available information.

**Product:**

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

**Skin corrosion/irritation**

Not classified based on available information.

**Serious eye damage/eye irritation**

Not classified based on available information.

**Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

Not classified based on available information.

**Reproductive toxicity**

Not classified based on available information.

**STOT - single exposure**

Not classified based on available information.

**STOT - repeated exposure**

Not classified based on available information.

**Aspiration toxicity**

Not classified based on available information.

**KIT CA-SCRN HBV AMP/DET 96T US-IVD**

Version 1.2

Revision Date 06-10-2014

Print Date 06-23-2014

**BI4****Acute toxicity**

Not classified based on available information.

**Product:**

Acute oral toxicity : Acute toxicity estimate : 3,470 mg/kg  
Method: Calculation method

**Components:****sodium thiocyanate:**

Acute oral toxicity : LD50 Oral (rat): 764 mg/kg  
LD50 Oral (mouse): 360 mg/kg

**Skin corrosion/irritation**

Not classified based on available information.

**Components:****sodium thiocyanate:**

Remarks: This information is not available.

**Serious eye damage/eye irritation**

Not classified based on available information.

**Components:****sodium thiocyanate:**

Remarks: This information is not available.

**Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

Not classified based on available information.

**Reproductive toxicity**

Not classified based on available information.

**STOT - single exposure**

Not classified based on available information.

**Components:****sodium thiocyanate:**

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

**STOT - repeated exposure**

Not classified based on available information.

**Components:****sodium thiocyanate:**

**KIT CA-SCRN HBV AMP/DET 96T US-IVD**

Version 1.2

Revision Date 06-10-2014

Print Date 06-23-2014

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

**Aspiration toxicity**

Not classified based on available information.

**Components:****sodium thiocyanate:**

No data available

**DN 4****Acute toxicity**

Not classified based on available information.

**Skin corrosion/irritation**

Causes severe burns.

**Product:**

Remarks: Extremely corrosive and destructive to tissue.

**Serious eye damage/eye irritation**

Causes serious eye damage.

**Product:**

Remarks: May cause irreversible eye damage.

**Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

**Germ cell mutagenicity**

Not classified based on available information.

**Components:****sodium hydroxide:**

Genotoxicity in vitro : Test Type: Ames test  
Result: negative

**Carcinogenicity**

Not classified based on available information.

**Reproductive toxicity**

Not classified based on available information.

**Components:****sodium hydroxide:**

Effects on fertility :

Remarks: No data available

**STOT - single exposure**

Not classified based on available information.

**Components:**

**KIT CA-SCRN HBV AMP/DET 96T US-IVD**

Version 1.2

Revision Date 06-10-2014

Print Date 06-23-2014

**sodium hydroxide:**

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

**STOT - repeated exposure**

Not classified based on available information.

**Components:****sodium hydroxide:**

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

**Aspiration toxicity**

Not classified based on available information.

**CN 4****Acute toxicity**

Not classified based on available information.

**Product:**

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

Acute inhalation toxicity : Acute toxicity estimate : > 40 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

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

**Components:****phenol:**

Acute oral toxicity : LD50 Oral (rat): 317 mg/kg  
LD50 Oral (mouse): 270 mg/kg

Acute inhalation toxicity : LC50 (rat): 0.9 mg/l  
Exposure time: 8 h  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 Dermal (rat): 669 mg/kg  
LD50 Dermal (rabbit): 630 mg/kg

**Skin corrosion/irritation**

Not classified based on available information.

**Product:**

Remarks: May cause skin irritation and/or dermatitis.

**Components:****phenol:**

**KIT CA-SCRN HBV AMP/DET 96T US-IVD**

Version 1.2

Revision Date 06-10-2014

Print Date 06-23-2014

Remarks: Extremely corrosive and destructive to tissue.

**Serious eye damage/eye irritation**

Not classified based on available information.

**Product:**

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin.

**Components:****phenol:**

Remarks: May cause irreversible eye damage.

**Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

**Product:**

Remarks: Causes sensitisation.

**Germ cell mutagenicity**

Not classified based on available information.

**Components:****phenol:**

Genotoxicity in vitro : Remarks: In vitro tests showed mutagenic effects

Germ cell mutagenicity-  
Assessment : In vitro tests showed mutagenic effects

**Carcinogenicity**

Not classified based on available information.

**Components:****phenol:**

Remarks: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Reproductive toxicity**

Not classified based on available information.

**STOT - single exposure**

Not classified based on available information.

**Components:****phenol:**

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

**STOT - repeated exposure**

Not classified based on available information.

**Components:****phenol:**

Assessment: May cause damage to organs through prolonged or repeated exposure.

**KIT CA-SCRN HBV AMP/DET 96T US-IVD**

Version 1.2

Revision Date 06-10-2014

Print Date 06-23-2014

**Aspiration toxicity**

Not classified based on available information.

**Components:****phenol:**

No aspiration toxicity classification

**Further information****Components:****phenol:**

Remarks: Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness, cessation of breathing.

**SB 3****Acute toxicity**

Not classified based on available information.

**Product:**

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

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

**Skin corrosion/irritation**

Not classified based on available information.

**Product:**

Remarks: May cause skin irritation and/or dermatitis.

**Serious eye damage/eye irritation**

Not classified based on available information.

**Product:**

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin.

**Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

**Product:**

Remarks: Causes sensitisation.

**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

Not classified based on available information.

**Reproductive toxicity**

Not classified based on available information.

**KIT CA-SCRN HBV AMP/DET 96T US-IVD**

Version 1.2

Revision Date 06-10-2014

Print Date 06-23-2014

**STOT - single exposure**

Not classified based on available information.

**STOT - repeated exposure**

Not classified based on available information.

**Aspiration toxicity**

Not classified based on available information.

**SB****Acute toxicity**

Not classified based on available information.

**Product:**

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

Acute inhalation toxicity : Acute toxicity estimate : 27.5 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : 3,750 mg/kg  
Method: Calculation method

**Components:****N,N-dimethylformamide:**

Acute oral toxicity : LD50 Oral (rat): 2,800 mg/kg  
Symptoms: Gastrointestinal disturbance  
  
LD50 Oral (mouse): 3,700 mg/kg

Acute inhalation toxicity : Acute toxicity estimate : 11 mg/l  
Test atmosphere: vapour  
Method: Expert judgement

Acute dermal toxicity : LD50 Dermal (rabbit): 1,500 mg/kg

**Skin corrosion/irritation**

Not classified based on available information.

**Product:**

Remarks: May cause skin irritation in susceptible persons.

**Components:****N,N-dimethylformamide:**

Remarks: May cause skin irritation in susceptible persons.

**Serious eye damage/eye irritation**

Causes serious eye irritation.

**Product:**

Remarks: May cause irreversible eye damage.

**KIT CA-SCRN HBV AMP/DET 96T US-IVD**

Version 1.2

Revision Date 06-10-2014

Print Date 06-23-2014

**Components:****N,N-dimethylformamide:**

Result: Eye irritation

Remarks: May cause irreversible eye damage.

**Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

**Components:****N,N-dimethylformamide:**

Species: guinea pig

Result: Did not cause sensitisation on laboratory animals.

**Germ cell mutagenicity**

Not classified based on available information.

**Components:****N,N-dimethylformamide:**Genotoxicity in vitro : Test Type: Ames test  
Result: negative**Carcinogenicity**

Not classified based on available information.

**Components:****N,N-dimethylformamide:**

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

**Reproductive toxicity**

May damage fertility or the unborn child.

**Components:****N,N-dimethylformamide:**

Reproductive toxicity - Assessment : May damage the unborn child., Known human reproductive toxicant

**STOT - single exposure**

Not classified based on available information.

**Components:****N,N-dimethylformamide:**

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

**STOT - repeated exposure**

Not classified based on available information.

**Components:****N,N-dimethylformamide:**

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

**KIT CA-SCRN HBV AMP/DET 96T US-IVD**

Version 1.2

Revision Date 06-10-2014

Print Date 06-23-2014

**Aspiration toxicity**

Not classified based on available information.

**Components:****N,N-dimethylformamide:**

No aspiration toxicity classification

**Further information****Components:****N,N-dimethylformamide:**

Remarks: Solvents may degrease the skin.

---

**SECTION 12. ECOLOGICAL INFORMATION*****HBV MMX*****Ecotoxicity****Product:**

Ecotoxicology Assessment

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

Other organisms relevant to : No data available  
the environment**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 fish (Chronic : > 1 mg/l  
toxicity)Toxicity to bacteria : EC0 (Pseudomonas putida): > 10,000 mg/l  
Exposure time: 16 h

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 : No data available  
the environment**Persistence and degradability****Components:**

**KIT CA-SCRN HBV AMP/DET 96T US-IVD**

Version 1.2

Revision Date 06-10-2014

Print Date 06-23-2014

**glycerol:**

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

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

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

**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). |

***HBV Mg2+*****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). |

***BH PS1***

**KIT CA-SCRN HBV AMP/DET 96T US-IVD**

Version 1.2

Revision Date 06-10-2014

Print Date 06-23-2014

**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).

***BH 4*****Ecotoxicity****Product:**

Ecotoxicology Assessment

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

Other organisms relevant to the environment : No data available

**Components:****sodium thiocyanate:**Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l  
Exposure time: 96 hToxicity to daphnia and other aquatic invertebrates : EC0 (Daphnia magna (Water flea)): 11 mg/l  
Exposure time: 48 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**

No data available

**KIT CA-SCRN HBV AMP/DET 96T US-IVD**

Version 1.2

Revision Date 06-10-2014

Print Date 06-23-2014

**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  
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

**Components:****sodium thiocyanate:**

Additional ecological information

: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Harmful to aquatic life with long lasting effects.

***BI PS1*****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  
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

***BI4*****Ecotoxicity****Product:**

Ecotoxicology Assessment

**KIT CA-SCRN HBV AMP/DET 96T US-IVD**

Version 1.2

Revision Date 06-10-2014

Print Date 06-23-2014

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

Other organisms relevant to the environment : No data available

**Components:****sodium thiocyanate:**Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l  
Exposure time: 96 hToxicity to daphnia and other aquatic invertebrates : EC0 (Daphnia magna (Water flea)): 11 mg/l  
Exposure time: 48 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**

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  
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

**Components:****sodium thiocyanate:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Harmful to aquatic life with long lasting effects.

**DN 4****Ecotoxicity****Product:****Ecotoxicology Assessment**

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

Other organisms relevant to the environment : No data available

**Components:**

**KIT CA-SCRN HBV AMP/DET 96T US-IVD**

Version 1.2

Revision Date 06-10-2014

Print Date 06-23-2014

**sodium hydroxide:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 45.4 mg/l  
Exposure time: 96 h

LC50 (Leuciscus idus (Golden orfe)): ca. 7 mg/l

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 40.38 mg/l  
Exposure time: 48 h

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

**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  
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

**CN 4****Ecotoxicity****Product:**

Ecotoxicology Assessment

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

Other organisms relevant to the environment : No data available

**Components:****phenol:**

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): 1.75 mg/l  
Exposure time: 96 h

LC50 (Carassius auratus (goldfish)): 46 mg/l  
Exposure time: 24 h

**KIT CA-SCRN HBV AMP/DET 96T US-IVD**

Version 1.2

Revision Date 06-10-2014

Print Date 06-23-2014

|                                                     |                                                                                                                                                                                                                        |
|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                     | LC50 (Oncorhynchus mykiss (rainbow trout)): 5 mg/l<br>Exposure time: 96 h                                                                                                                                              |
| Toxicity to daphnia and other aquatic invertebrates | : EC50 (Daphnia magna (Water flea)): 12 mg/l<br>Exposure time: 24 h<br><br>EC50 (Daphnia magna (Water flea)): 10 mg/l<br>Exposure time: 48 h<br><br>EC50 (Daphnia magna (Water flea)): 4.2 mg/l<br>Exposure time: 48 h |
| Toxicity to algae                                   | : IC50 (Pseudokirchneriella subcapitata (green algae)): 150 mg/l<br>Exposure time: 96 h<br>Method: OECD Test Guideline 201<br><br>EC50 (Chlorella vulgaris (Fresh water algae)): 370 mg/l<br>Exposure time: 96 h       |
| Toxicity to bacteria                                | : (Pseudomonas putida): 64 mg/l                                                                                                                                                                                        |
| Ecotoxicology Assessment<br>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                                                                                                                                                                                                    |

**Persistence and degradability****Components:****phenol:**

|                                 |                                                                                                                                                                                                               |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Biodegradability                | : Biodegradation: 96 %<br>Exposure time: 28 d<br>Method: OECD Test Guideline 302<br>Remarks: According to the results of tests of biodegradability this product is considered as being readily biodegradable. |
| Biochemical Oxygen Demand (BOD) | : 1,680 mg/g<br>Incubation time: 5 d                                                                                                                                                                          |
| Chemical Oxygen Demand (COD)    | : 2,300 mg/g                                                                                                                                                                                                  |
| Impact on Sewage Treatment      | : Do not discharge product into the aquatic environment without pretreatment (biological treatment plant).                                                                                                    |

**Bioaccumulative potential****Components:****phenol:**

|                                        |                 |
|----------------------------------------|-----------------|
| Partition coefficient: n-octanol/water | : log Pow: 1.46 |
|----------------------------------------|-----------------|

**KIT CA-SCRN HBV AMP/DET 96T US-IVD**

Version 1.2

Revision Date 06-10-2014

Print Date 06-23-2014

**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).

**SB 3****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).

**SB****Ecotoxicity****Product:**

Ecotoxicology Assessment

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

Other organisms relevant to the environment : No data available

**Components:**

**KIT CA-SCRN HBV AMP/DET 96T US-IVD**

Version 1.2

Revision Date 06-10-2014

Print Date 06-23-2014

**N,N-dimethylformamide:**

- Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 10,600 mg/l  
Exposure time: 96 h
- LC50 (Oncorhynchus mykiss (rainbow trout)): 9,800 mg/l  
Exposure time: 96 h
- LC50 (Lepomis macrochirus (Bluegill sunfish)): 6,300 mg/l  
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 15,700 mg/l  
Exposure time: 48 h
- Toxicity to algae : EC50 (Chlorella pyrenoidosa): 890 mg/l
- IC50 (Desmodesmus subspicatus (green algae)): > 500 mg/l  
Exposure time: 96 h
- Toxicity to bacteria : EC50 (Photobacterium phosphoreum): 2,000 mg/l  
Exposure time: 0.08 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:****N,N-dimethylformamide:**

- Biodegradability : Zahn-Wellens Test  
Result: Readily biodegradable.  
Biodegradation: 97 %  
Exposure time: 7 d  
Method: OECD Test Guideline 302  
Remarks: According to the results of tests of biodegradability this product is considered as being readily biodegradable.
- Result: Readily biodegradable.  
Biodegradation: > 90 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301
- Biochemical Oxygen Demand (BOD) : 900 mg/g  
Incubation time: 5 d

**Bioaccumulative potential****Components:****N,N-dimethylformamide:**

- Bioaccumulation : Remarks: Does not bioaccumulate.
- Partition coefficient: n-octanol/water : log Pow: -0.85  
Method: OECD Test Guideline 107

**KIT CA-SCRN HBV AMP/DET 96T US-IVD**

Version 1.2

Revision Date 06-10-2014

Print Date 06-23-2014

**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).

**Components:****N,N-dimethylformamide:**

Additional ecological information : No data available

---

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**Waste from residues : 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.

---

**SECTION 14. TRANSPORT INFORMATION****International regulation****IATA-DGR**UN/ID No. : UN 1824  
Proper shipping name : Sodium hydroxide solution  
Class : 8  
Packing group : III  
Labels : Corrosives  
Packing instruction (cargo aircraft) : 856  
Packing instruction (passenger aircraft) : 852**IMDG-Code**UN number : UN 1824  
Proper shipping name : Sodium hydroxide solution  
Class : 8  
Packing group : III  
Labels : 8  
EmS Code : F-A, S-B

**KIT CA-SCRN HBV AMP/DET 96T US-IVD**

Version 1.2

Revision Date 06-10-2014

Print Date 06-23-2014

Marine pollutant : no

**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**

UN/ID/NA number : UN 1824  
Proper shipping name : Sodium hydroxide solution  
Class : 8  
Packing group : III  
Labels : Class 8 - Corrosive  
ERG Code : 154  
Marine pollutant : no

**SECTION 15. REGULATORY INFORMATION****HBV MMX**

OSHA Hazards : No OSHA Hazards

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

| Components   | CAS-No.    | Component RQ<br>(lbs) | Calculated product RQ<br>(lbs) |
|--------------|------------|-----------------------|--------------------------------|
| Sodium azide | 26628-22-8 | 1000                  | *                              |

\*: Calculated RQ exceeds reasonably attainable upper limit.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

| Components   | CAS-No.    | Component RQ<br>(lbs) | Calculated product RQ<br>(lbs) |
|--------------|------------|-----------------------|--------------------------------|
| Sodium azide | 26628-22-8 | 1000                  | *                              |

\*: Calculated RQ exceeds reasonably attainable upper limit.

**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 5.63 %

**Clean Water Act**

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

**KIT CA-SCRN HBV AMP/DET 96T US-IVD**

Version 1.2

Revision Date 06-10-2014

Print Date 06-23-2014

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

**OSHA Process Safety Management Lists**

This product does not contain any hazardous materials listed under OSHA's process safety management of highly hazardous chemicals.

**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  | 90 - 100 % |
| glycerol     | 56-81-5    | 5 - 10 %   |
| sodium azide | 26628-22-8 | 0 - 0.1 %  |

**New Jersey Right To Know**

|          |           |            |
|----------|-----------|------------|
| water    | 7732-18-5 | 90 - 100 % |
| glycerol | 56-81-5   | 5 - 10 %   |

**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), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

**HBV Mg2+**

**OSHA Hazards** : No OSHA Hazards

**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               | *                           |

\*: Calculated RQ exceeds reasonably attainable upper limit.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

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

\*: Calculated RQ exceeds reasonably attainable upper limit.

**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.

**KIT CA-SCRN HBV AMP/DET 96T US-IVD**

Version 1.2

Revision Date 06-10-2014

Print Date 06-23-2014

**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

**OSHA Process Safety Management Lists**

This product does not contain any hazardous materials listed under OSHA's process safety management of highly hazardous chemicals.

**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 % |
|-------|-----------|------------|

**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), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

**BH PS1**

**OSHA Hazards** : No OSHA Hazards

**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               | *                           |

\*: Calculated RQ exceeds reasonably attainable upper limit.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

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

\*: Calculated RQ exceeds reasonably attainable upper limit.

**KIT CA-SCRN HBV AMP/DET 96T US-IVD**

Version 1.2

Revision Date 06-10-2014

Print Date 06-23-2014

- 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**

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

|                  |           |         |
|------------------|-----------|---------|
| sodium hydroxide | 1310-73-2 | 0.071 % |
| edetic acid      | 60-00-4   | 0.038 % |

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

|                  |           |         |
|------------------|-----------|---------|
| sodium hydroxide | 1310-73-2 | 0.071 % |
| edetic acid      | 60-00-4   | 0.038 % |

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

**OSHA Process Safety Management Lists**

This product does not contain any hazardous materials listed under OSHA's process safety management of highly hazardous chemicals.

**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 %  |
| sodium hydroxide | 1310-73-2  | 0 - 0.1 %  |
| edetic acid      | 60-00-4    | 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), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

**BH 4**

- OSHA Hazards** : Harmful by ingestion., Moderate eye irritant

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

**KIT CA-SCRN HBV AMP/DET 96T US-IVD**

Version 1.2

Revision Date 06-10-2014

Print Date 06-23-2014

**CERCLA Reportable Quantity**

| Components                  | CAS-No.   | Component RQ<br>(lbs) | Calculated product RQ<br>(lbs) |
|-----------------------------|-----------|-----------------------|--------------------------------|
| Disodium hydrogen phosphate | 7558-79-4 | 5000                  | *                              |

\*: Calculated RQ exceeds reasonably attainable upper limit.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

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

**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**

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

|                                        |           |         |
|----------------------------------------|-----------|---------|
| disodium<br>hydrogenorthophosphat<br>e | 7558-79-4 | 0.157 % |
|----------------------------------------|-----------|---------|

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

|                                        |           |         |
|----------------------------------------|-----------|---------|
| disodium<br>hydrogenorthophosphat<br>e | 7558-79-4 | 0.157 % |
|----------------------------------------|-----------|---------|

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

**OSHA Process Safety Management Lists**

This product does not contain any hazardous materials listed under OSHA's process safety management of highly hazardous chemicals.

**Massachusetts Right To Know**

No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know**

|                                 |           |           |
|---------------------------------|-----------|-----------|
| water                           | 7732-18-5 | 70 - 90 % |
| sodium thiocyanate              | 540-72-7  | 20 - 30 % |
| disodium hydrogenorthophosphate | 7558-79-4 | 0.1 - 1 % |

**New Jersey Right To Know**

|                                             |            |           |
|---------------------------------------------|------------|-----------|
| water                                       | 7732-18-5  | 70 - 90 % |
| sodium thiocyanate                          | 540-72-7   | 20 - 30 % |
| Sodium phosphate, monobasic,<br>monohydrate | 10049-21-5 | 1 - 5 %   |

**KIT CA-SCRN HBV AMP/DET 96T US-IVD**

Version 1.2

Revision Date 06-10-2014

Print Date 06-23-2014

**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), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

**BI PS1**

**OSHA Hazards** : No OSHA Hazards

**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               | *                           |

\*: Calculated RQ exceeds reasonably attainable upper limit.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

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

\*: Calculated RQ exceeds reasonably attainable upper limit.

**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**

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

|                  |           |         |
|------------------|-----------|---------|
| sodium hydroxide | 1310-73-2 | 0.071 % |
| edetic acid      | 60-00-4   | 0.038 % |

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

|                  |           |         |
|------------------|-----------|---------|
| sodium hydroxide | 1310-73-2 | 0.071 % |
| edetic acid      | 60-00-4   | 0.038 % |

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

**OSHA Process Safety Management Lists**

**KIT CA-SCRN HBV AMP/DET 96T US-IVD**

Version 1.2

Revision Date 06-10-2014

Print Date 06-23-2014

This product does not contain any hazardous materials listed under OSHA's process safety management of highly hazardous chemicals.

**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 %  |
| sodium hydroxide | 1310-73-2  | 0 - 0.1 %  |
| edetic acid      | 60-00-4    | 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), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

**BI4**

**OSHA Hazards** : Harmful by ingestion., Moderate eye irritant

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

This material does not contain any components with a CERCLA RQ.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

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

**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

**KIT CA-SCRN HBV AMP/DET 96T US-IVD**

Version 1.2

Revision Date 06-10-2014

Print Date 06-23-2014

**OSHA Process Safety Management Lists**

This product does not contain any hazardous materials listed under OSHA's process safety management of highly hazardous chemicals.

**Massachusetts Right To Know**

No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know**

|                    |           |           |
|--------------------|-----------|-----------|
| water              | 7732-18-5 | 70 - 90 % |
| sodium thiocyanate | 540-72-7  | 20 - 30 % |

**New Jersey Right To Know**

|                                          |            |           |
|------------------------------------------|------------|-----------|
| water                                    | 7732-18-5  | 70 - 90 % |
| sodium thiocyanate                       | 540-72-7   | 20 - 30 % |
| Sodium phosphate, monobasic, monohydrate | 10049-21-5 | 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), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

**DN 4**

**OSHA Hazards** : No OSHA Hazards

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

| Components       | CAS-No.   | Component RQ (lbs) | Calculated product RQ (lbs) |
|------------------|-----------|--------------------|-----------------------------|
| Sodium hydroxide | 1310-73-2 | 1000               | *                           |

\*: Calculated RQ exceeds reasonably attainable upper limit.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

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

**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**

**KIT CA-SCRN HBV AMP/DET 96T US-IVD**

Version 1.2

Revision Date 06-10-2014

Print Date 06-23-2014

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

sodium hydroxide 1310-73-2 1.6 %

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

sodium hydroxide 1310-73-2 1.6 %

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

**OSHA Process Safety Management Lists**

This product does not contain any hazardous materials listed under OSHA's process safety management of highly hazardous chemicals.

**Massachusetts Right To Know**

sodium hydroxide 1310-73-2 1 - 5 %

**Pennsylvania Right To Know**

water 7732-18-5 90 - 100 %

sodium hydroxide 1310-73-2 1 - 5 %

**New Jersey Right To Know**

water 7732-18-5 90 - 100 %

sodium hydroxide 1310-73-2 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), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

**CN 4**

**OSHA Hazards** : No OSHA Hazards

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

| Components | CAS-No.  | Component RQ (lbs) | Calculated product RQ (lbs) |
|------------|----------|--------------------|-----------------------------|
| Phenol     | 108-95-2 | 1000               | *                           |

\*: Calculated RQ exceeds reasonably attainable upper limit.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

| Components | CAS-No.  | Component RQ (lbs) | Calculated product RQ (lbs) |
|------------|----------|--------------------|-----------------------------|
| Phenol     | 108-95-2 | 1000               | *                           |

\*: Calculated RQ exceeds reasonably attainable upper limit.

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

phenol 108-95-2 0.1 %

**KIT CA-SCRN HBV AMP/DET 96T US-IVD**

Version 1.2

Revision Date 06-10-2014

Print Date 06-23-2014

**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**

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

|        |          |       |
|--------|----------|-------|
| phenol | 108-95-2 | 0.1 % |
|--------|----------|-------|

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):

|        |          |       |
|--------|----------|-------|
| phenol | 108-95-2 | 0.1 % |
|--------|----------|-------|

**Clean Water Act**

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

|        |          |       |
|--------|----------|-------|
| phenol | 108-95-2 | 0.1 % |
|--------|----------|-------|

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

|        |          |       |
|--------|----------|-------|
| phenol | 108-95-2 | 0.1 % |
|--------|----------|-------|

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

**OSHA Process Safety Management Lists**

This product does not contain any hazardous materials listed under OSHA's process safety management of highly hazardous chemicals.

**Massachusetts Right To Know**

|        |          |           |
|--------|----------|-----------|
| phenol | 108-95-2 | 0.1 - 1 % |
|--------|----------|-----------|

**Pennsylvania Right To Know**

|        |           |            |
|--------|-----------|------------|
| water  | 7732-18-5 | 90 - 100 % |
| phenol | 108-95-2  | 0.1 - 1 %  |

**New Jersey Right To Know**

|        |           |            |
|--------|-----------|------------|
| water  | 7732-18-5 | 90 - 100 % |
| phenol | 108-95-2  | 0.1 - 1 %  |

**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), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

**SB 3****OSHA Hazards**

: No OSHA Hazards

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

This material does not contain any components with a CERCLA RQ.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**


**KIT CA-SCRN HBV AMP/DET 96T US-IVD**

Version 1.2

Revision Date 06-10-2014

Print Date 06-23-2014

| Components        | CAS-No.   | Component RQ<br>(lbs) | Calculated product RQ<br>(lbs) |
|-------------------|-----------|-----------------------|--------------------------------|
| Hydrogen Peroxide | 7722-84-1 | 1000                  | *                              |

\*: Calculated RQ exceeds reasonably attainable upper limit.

**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

**OSHA Process Safety Management Lists**

This product does not contain any hazardous materials listed under OSHA's process safety management of highly hazardous chemicals.

**Massachusetts Right To Know**

|                   |           |           |
|-------------------|-----------|-----------|
| hydrogen peroxide | 7722-84-1 | 0 - 0.1 % |
|-------------------|-----------|-----------|

**Pennsylvania Right To Know**

|                   |           |            |
|-------------------|-----------|------------|
| water             | 7732-18-5 | 90 - 100 % |
| hydrogen peroxide | 7722-84-1 | 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), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

**SB**

**OSHA Hazards** : Harmful by skin absorption., Moderate eye irritant, Reproductive hazard

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

**KIT CA-SCRN HBV AMP/DET 96T US-IVD**

Version 1.2

Revision Date 06-10-2014

Print Date 06-23-2014

**CERCLA Reportable Quantity**

| Components            | CAS-No. | Component RQ<br>(lbs) | Calculated product RQ<br>(lbs) |
|-----------------------|---------|-----------------------|--------------------------------|
| N,N-Dimethylformamide | 68-12-2 | 100                   | 250                            |

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

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

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

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:

|                       |         |      |
|-----------------------|---------|------|
| N,N-dimethylformamide | 68-12-2 | 40 % |
|-----------------------|---------|------|

**Clean Air Act**

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

|                       |         |      |
|-----------------------|---------|------|
| N,N-dimethylformamide | 68-12-2 | 40 % |
|-----------------------|---------|------|

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):

|                       |         |      |
|-----------------------|---------|------|
| N,N-dimethylformamide | 68-12-2 | 40 % |
|-----------------------|---------|------|

**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

**OSHA Process Safety Management Lists**

This product does not contain any hazardous materials listed under OSHA's process safety management of highly hazardous chemicals.

**Massachusetts Right To Know**

|                       |         |           |
|-----------------------|---------|-----------|
| N,N-dimethylformamide | 68-12-2 | 30 - 50 % |
|-----------------------|---------|-----------|

**Pennsylvania Right To Know**

|       |           |           |
|-------|-----------|-----------|
| water | 7732-18-5 | 50 - 70 % |
|-------|-----------|-----------|

|                       |         |           |
|-----------------------|---------|-----------|
| N,N-dimethylformamide | 68-12-2 | 30 - 50 % |
|-----------------------|---------|-----------|

**New Jersey Right To Know**

|       |           |           |
|-------|-----------|-----------|
| water | 7732-18-5 | 50 - 70 % |
|-------|-----------|-----------|

|                       |         |           |
|-----------------------|---------|-----------|
| N,N-dimethylformamide | 68-12-2 | 30 - 50 % |
|-----------------------|---------|-----------|

**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**

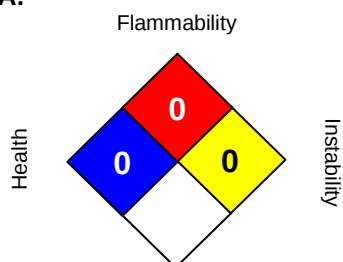
AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

**KIT CA-SCRN HBV AMP/DET 96T US-IVD**

Version 1.2

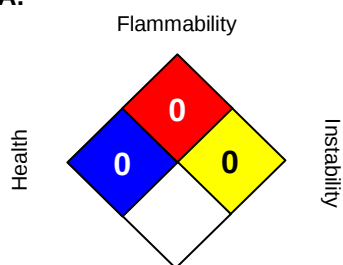
Revision Date 06-10-2014

Print Date 06-23-2014

**SECTION 16. OTHER INFORMATION****Further information****HBV MMX****NFPA:****HMIS III:**

|                        |          |
|------------------------|----------|
| <b>HEALTH</b>          | <b>0</b> |
| <b>FLAMMABILITY</b>    | <b>0</b> |
| <b>PHYSICAL HAZARD</b> | <b>0</b> |

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

**HBV Mg2+****NFPA:****HMIS III:**

|                        |          |
|------------------------|----------|
| <b>HEALTH</b>          | <b>0</b> |
| <b>FLAMMABILITY</b>    | <b>0</b> |
| <b>PHYSICAL HAZARD</b> | <b>0</b> |

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

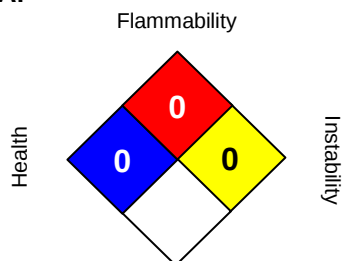
**BH PS1**

**KIT CA-SCRN HBV AMP/DET 96T US-IVD**

Version 1.2

Revision Date 06-10-2014

Print Date 06-23-2014

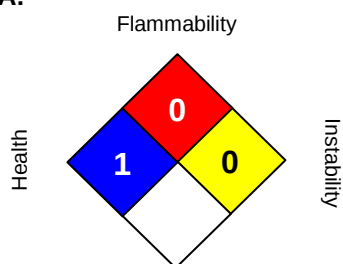
**NFPA:**

Special hazard.

**HMIS III:**

|                        |          |
|------------------------|----------|
| <b>HEALTH</b>          | <b>0</b> |
| <b>FLAMMABILITY</b>    | <b>0</b> |
| <b>PHYSICAL HAZARD</b> | <b>0</b> |

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

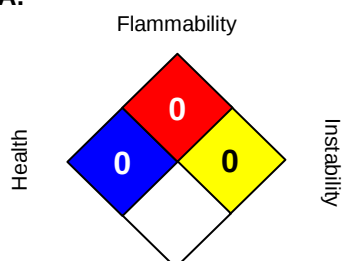
**BH 4****NFPA:**

Special hazard.

**HMIS III:**

|                        |          |
|------------------------|----------|
| <b>HEALTH</b>          | <b>2</b> |
| <b>FLAMMABILITY</b>    | <b>0</b> |
| <b>PHYSICAL HAZARD</b> | <b>0</b> |

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

**BI PS1****NFPA:**

Special hazard.

**HMIS III:**

|                        |          |
|------------------------|----------|
| <b>HEALTH</b>          | <b>0</b> |
| <b>FLAMMABILITY</b>    | <b>0</b> |
| <b>PHYSICAL HAZARD</b> | <b>0</b> |

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

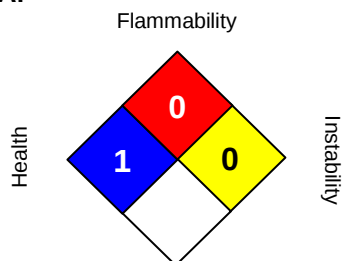
**BI4**

**KIT CA-SCRN HBV AMP/DET 96T US-IVD**

Version 1.2

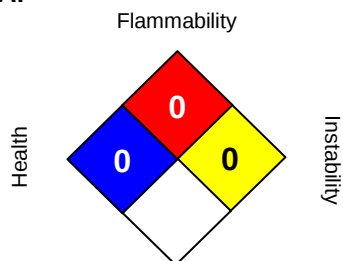
Revision Date 06-10-2014

Print Date 06-23-2014

**NFPA:****HMIS III:**

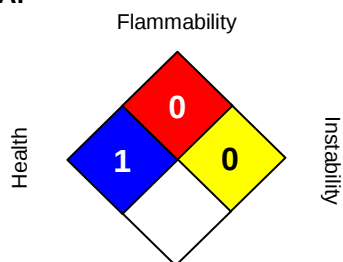
|                        |          |
|------------------------|----------|
| <b>HEALTH</b>          | <b>2</b> |
| <b>FLAMMABILITY</b>    | <b>0</b> |
| <b>PHYSICAL HAZARD</b> | <b>0</b> |

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

**DN 4****NFPA:****HMIS III:**

|                        |          |
|------------------------|----------|
| <b>HEALTH</b>          | <b>0</b> |
| <b>FLAMMABILITY</b>    | <b>0</b> |
| <b>PHYSICAL HAZARD</b> | <b>0</b> |

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

**CN 4****NFPA:****HMIS III:**

|                        |          |
|------------------------|----------|
| <b>HEALTH</b>          | <b>0</b> |
| <b>FLAMMABILITY</b>    | <b>0</b> |
| <b>PHYSICAL HAZARD</b> | <b>0</b> |

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

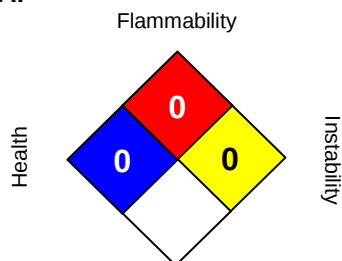
**SB 3**

**KIT CA-SCRN HBV AMP/DET 96T US-IVD**

Version 1.2

Revision Date 06-10-2014

Print Date 06-23-2014

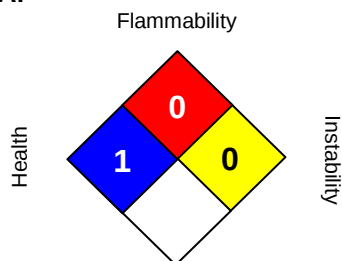
**NFPA:**

Special hazard.

**HMIS III:**

|                        |          |
|------------------------|----------|
| <b>HEALTH</b>          | <b>0</b> |
| <b>FLAMMABILITY</b>    | <b>0</b> |
| <b>PHYSICAL HAZARD</b> | <b>0</b> |

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

**SB****NFPA:**

Special hazard.

**HMIS III:**

|                        |           |
|------------------------|-----------|
| <b>HEALTH</b>          | <b>2*</b> |
| <b>FLAMMABILITY</b>    | <b>0</b>  |
| <b>PHYSICAL HAZARD</b> | <b>0</b>  |

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.