

**KIT s201 T-SCRN MPX v2.0 96T US-IVD**

Version 1.0

Revision Date 05-27-2013

Print Date 09-25-2013

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

Commercial Product Name : KIT s201 T-SCRN MPX v2.0 96T US-IVD
Mat.-No./ Genisys-No. : 05969484190

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

Recommended restrictions : For professional users only.
on use

1.3 Details of the supplier of the safety data sheet

Company : Roche Diagnostics
-
9115 Hague Road
46250 Indianapolis IN
E-mail address :
Telephone : 1-800-428-5074
Telefax :
Responsible Department :
In case of emergencies: : CHEMTREC 1-800-424-9300 (U.S. or
Canada)
1-703-527-3887 (International)
:

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

Flammable liquids, Category 2	H225: Highly flammable liquid and vapour.
Acute toxicity, Category 4	H302: Harmful if swallowed.
Skin irritation, Category 2	H315: Causes skin irritation.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Respiratory sensitisation, Category 1	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
	H336: May cause drowsiness or dizziness.
Specific target organ toxicity - single exposure, Category 3, Central nervous system	
Chronic aquatic toxicity, Category 3	H412: Harmful to aquatic life with long lasting effects.

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

Highly flammable	R11: Highly flammable.
Harmful	R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.
	R32: Contact with acids liberates very toxic gas.
Irritant	R41: Risk of serious damage to eyes.

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Sensitising
Dangerous for the environment

R42: May cause sensitisation by inhalation.
R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R67: Vapours may cause drowsiness and dizziness.

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

Hazard pictograms

:



Signal word

: Danger

Hazard statements

:

H225
H302
H315
H318
H334

H336
H412

Highly flammable liquid and vapour.
Harmful if swallowed.
Causes skin irritation.
Causes serious eye damage.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause drowsiness or dizziness.
Harmful to aquatic life with long lasting effects.

Precautionary statements

:

Prevention:

P210

P233
P240

P241

P242
P243

P261

P264
P270

P271

P273
P280

P285

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ ventilating/ lighting/ equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
Wash skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Avoid release to the environment.
Wear protective gloves/ protective clothing/ eye protection/ face protection.
In case of inadequate ventilation wear respiratory protection.

Response:

P301 + P312

IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.


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P303 + P361 + P353	IF ON SKIN (or hair): Remove/ Take off 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.
P330	Rinse mouth.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
Storage:	
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
Disposal:	
P501	Dispose of contents/ container to an approved waste disposal plant.

Additional Labelling:

EUH032

Contact with acids liberates very toxic gas.

2.3 Other hazards

No information available.

3. Composition/information on ingredients**3.2 Mixtures**

[HIV/HBV/HCV/CTM/DPX/MPX/MPX2 - CS1] Magnetic Glass Particles (MGPs) Suspension

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 2
 Eye irritation, Category 2
 Specific target organ toxicity - single exposure, Category 3, Central nervous system

H225: Highly flammable liquid and vapour.
 H319: Causes serious eye irritation.
 H336: May cause drowsiness or dizziness.

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

Highly flammable

R11: Highly flammable.


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Irritant

R36: Irritating to eyes.
 R67: Vapours may cause drowsiness and dizziness.

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
propan-2-ol	67-63-0 200-661-7	F; R11 Xi; R36 R67	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	>= 50 - <= 100

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

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

Lysis Buffer (R2 / LYS RGT / [HIV/HBV/HCV/DPX/MPX/MPX2 - CS2])
Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4

Skin irritation, Category 2

Serious eye damage, Category 1

Chronic aquatic toxicity, Category 3

H302: Harmful if swallowed.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H412: Harmful to aquatic life with long lasting effects.

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

Harmful

Irritant

Dangerous for the environment

R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.

R41: Risk of serious damage to eyes.

R32: Contact with acids liberates very toxic gas.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
guanidinium thiocyanate	593-84-0 209-812-1	Xn; R20/21/22 R32 R52-R53	Acute Tox. 4; H302 Acute Tox. 4; H332 Acute Tox. 4; H312 Aquatic Chronic 3; H412	>= 25 - < 50
3,6,9,12,15,18,21,24,27 - nonaoxanonatriacontan -1-ol	9002-92-0 221-284-4	Xn; Xn; R22 Xi; Xi; R41	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318	>= 10 - < 20

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

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

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CS3 [Pase]**Classification (REGULATION (EC) No 1272/2008)**

Serious eye damage, Category 1

Respiratory sensitisation, Category 1

H318: Causes serious eye damage.

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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

Sensitising

Irritant

R42: May cause sensitisation by inhalation.

R36: Irritating to eyes.

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Subtilisin	9014-01-1 232-752-2	Xi; R37/38-R41 R42	Skin Irrit. 2; H315 Eye Dam. 1; H318 Resp. Sens. 1; H334 STOT SE 3; H335	>= 5 - < 10

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

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

CS3 - EB**Classification (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture.

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

Not a hazardous substance or mixture.

Remarks : No dangerous ingredients according to Regulation (EC) No. 1907/2006

[DPX/MPX2 - CS4] MMX - R1**Classification (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture.

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

Not a hazardous substance or mixture.

Remarks : No dangerous ingredients according to Regulation (EC) No. 1907/2006

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CS4 - IC**Classification (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture.

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

Not a hazardous substance or mixture.

Remarks : No dangerous ingredients according to Regulation (EC) No. 1907/2006

CS4 - MMX-R2**Classification (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture.

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

Not a hazardous substance or mixture.

Remarks : No dangerous ingredients according to Regulation (EC) No. 1907/2006

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

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

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Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

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

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

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

5. Firefighting measures**5.1 Extinguishing media**

Suitable extinguishing media : Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

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

5.3 Advice for firefighters

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

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
For safety reasons in case of fire, cans should be stored separately in closed containments.
Use a water spray to cool fully closed containers.

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

Personal precautions : Use personal protective equipment.
Ensure adequate ventilation.

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Remove all sources of ignition.
Evacuate personnel to safe areas.
Refer to protective measures listed in sections 7 and 8.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

6.2 Environmental precautions

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

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections

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

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

Advice on safe handling : Avoid formation of aerosol.
Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Take precautionary measures against static discharges.
Provide sufficient air exchange and/or exhaust in work rooms.
Open drum carefully as content may be under pressure.
Dispose of rinse water in accordance with local and national regulations.
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
To prevent leaks or spillages from spreading, provide a suitable liquid retention system.

Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).
Use only explosion-proof equipment.
Keep away from open flames, hot surfaces and sources of ignition.

7.2 Conditions for safe storage, including any incompatibilities


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Requirements for storage areas and containers : No smoking.
 Keep container tightly closed in a dry and well-ventilated place.
 Containers which are opened must be carefully resealed and kept upright to prevent leakage.
 Observe label precautions.
 Electrical installations / working materials must comply with the technological safety standards.

Further information on storage conditions : See label, package insert or internal guidelines
 Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : Laboratory chemicals

8. Exposure controls/personal protection
Exposure Guidelines

[HIV/HBV/HCV/CTM/DPX/MPX/MPX2 - CS1] Magnetic Glass Particles (MGPs) Suspension

Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Source
propan-2-ol	67-63-0	TWA	200 ppm	USA. ACGIH Threshold Limit Values (TLV)
		STEL	400 ppm	USA. ACGIH Threshold Limit Values (TLV)
		TWA	400 ppm 980 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	500 ppm 1,225 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	400 ppm 980 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	400 ppm 980 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		STEL	500 ppm 1,225 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000


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Lysis Buffer (R2 / LYS RGT / [HIV/HBV/HCV/DPX/MPX/MPX2 - CS2])

Contains no substances with occupational exposure limit values.

CS3 [Pase]

Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Source
glycerol	56-81-5	TWA	5 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	15 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	10 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		TWA	5 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		TWA	10 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
Subtilisin	9014-01-1	C	0.00006 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		C	0.00006 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		ST	0.00006 mg/m3	USA. NIOSH Recommended Exposure Limits

CS3 - EB

Contains no substances with occupational exposure limit values.

[DPX/MPX2 - CS4] MMX - R1

Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Source
dimethyl sulfoxide	67-68-5	TWA	250 ppm	USA. Workplace Environmental Exposure Levels (WEEL)
glycerol	56-81-5	TWA	5 mg/m3	USA. Occupational Exposure Limits (OSHA) -

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				Table Z-1 Limits for Air Contaminants
		TWA	15 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	10 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		TWA	5 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		TWA	10 mg/m3	USA. ACGIH Threshold Limit Values (TLV)

CS4 - IC

Contains no substances with occupational exposure limit values.

CS4 - MMX-R2**Components with workplace control parameters**

Components	CAS-No.	Value	Control parameters	Source
dimethyl sulfoxide	67-68-5	TWA	250 ppm	USA. Workplace Environmental Exposure Levels (WEEL)
glycerol	56-81-5	TWA	5 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	15 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	10 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		TWA	5 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		TWA	10 mg/m3	USA. ACGIH Threshold Limit Values (TLV)

Personal protective equipment

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Eye protection	: Eye wash bottle with pure water Tightly fitting safety goggles Wear face-shield and protective suit for abnormal processing problems.
Hand protection	: Protective gloves The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. This recommendation is only valid for the product mentioned in the safety data sheet and provided by us and for the application specified by us. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Skin and body protection	: impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Respiratory protection	: In the case of vapour formation use a respirator with an approved filter.
Hygiene measures	: When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

9. Physical and chemical properties**9.1 Information on basic physical and chemical properties***[HIV/HBV/HCV/CTM/DPX/MPX/MPX2 - CS1] Magnetic Glass Particles (MGPs) Suspension*

Appearance	: liquid
Colour	: colourless : black
Odour	: strong
Melting point/range	: -89 °C
Boiling point/boiling range	: 82 °C
Flash point	: 12 °C
Lower explosion limit	: 2 %(V)


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Upper explosion limit	: 12 %(V)
Vapour pressure	: 42 hPa, 20 °C
Water solubility	: partly miscible
Partition coefficient: n-octanol/water	: no data available
Auto-ignition temperature	: 485 °C
Ignition temperature	: no data available
Thermal decomposition	: Hazardous decomposition products formed under fire conditions.
Viscosity, dynamic	: no data available
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
<i>Lysis Buffer (R2 / LYS RGT / [HIV/HBV/HCV/DPX/MPX/MPX2 - CS2])</i>	
Appearance	: liquid
Colour	: colourless
Odour	: none
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.
Lower explosion limit	: no data available
Upper explosion limit	: no data available
Vapour pressure	: no data available
Water solubility	: completely miscible
Partition coefficient: n-octanol/water	: no data available
Ignition temperature	: no data available
Thermal decomposition	: no data available
Viscosity, dynamic	: no data available
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
<i>CS3 [Pase]</i>	
Appearance	: liquid
Colour	: transparentlight brown
Odour	: odourless
pH	: ca. 5
Boiling point/boiling range	: no data available
Flash point	: no data available


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Lower explosion limit	: no data available
Upper explosion limit	: no data available
Vapour pressure	: no data available
Partition coefficient: n-octanol/water	: no data available
Ignition temperature	: no data available
Thermal decomposition	: no data available
Viscosity, dynamic	: no data available
<i>CS3 - EB</i>	
Appearance	: liquid
Melting point/range	: no data available
Boiling point/boiling range	: no data available
Flash point	: does not flash
Lower explosion limit	: no data available
Upper explosion limit	: no data available
Vapour pressure	: no data available
Water solubility	: completely miscible
Partition coefficient: n-octanol/water	: no data available
Ignition temperature	: no data available
Thermal decomposition	: no data available
Viscosity, dynamic	: no data available
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
<i>[DPX/MPX2 - CS4] MMX - R1</i>	
Appearance	: liquid
Colour	: transparent
pH	: 6.4
Melting point/range	: no data available
Boiling point/boiling range	: no data available
Flash point	: does not flash
Flammability (solid, gas)	: The product is not flammable.
Lower explosion limit	: no data available
Upper explosion limit	: no data available
Vapour pressure	: no data available
Density	: 1.0733 g/cm ³
Water solubility	: completely miscible
Partition coefficient: n-	: no data available

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octanol/water

Ignition temperature : no data available

Thermal decomposition : no data available

Viscosity, dynamic : no data available

CS4 - IC

Appearance : liquid

pH : 8.0

Melting point/range : no data available

Boiling point/boiling range : no data available

Flash point : does not flash

Lower explosion limit : no data available

Upper explosion limit : no data available

Vapour pressure : no data available

Density : 1.006 g/cm³

Water solubility : completely miscible

Partition coefficient: n-
octanol/water : no data available

Ignition temperature : no data available

Thermal decomposition : no data available

Viscosity, dynamic : no data available

Oxidizing properties : The substance or mixture is not classified as oxidizing.

CS4 - MMX-R2

Appearance : liquid

pH : 8.0

Melting point/range : no data available

Boiling point/boiling range : no data available

Flash point : does not flash

Lower explosion limit : no data available

Upper explosion limit : no data available

Vapour pressure : no data available

Water solubility : completely miscible

Partition coefficient: n-
octanol/water : no data available

Ignition temperature : no data available

Thermal decomposition : no data available

Viscosity, dynamic : no data available

Oxidizing properties : The substance or mixture is not classified as oxidizing.

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9.2 Other information*[HIV/HBV/HCV/CTM/DPX/MPX/MPX2 - CS1] Magnetic Glass Particles (MGPs) Suspension*

Conductivity : no data available

Oxidising potential : no data available

Surface tension : no data available

Lysis Buffer (R2 / LYS RGT / [HIV/HBV/HCV/DPX/MPX/MPX2 - CS2])

Conductivity : no data available

Oxidising potential : no data available

Surface tension : no data available

CS3 [Pase]

Conductivity : no data available

Oxidising potential : no data available

Surface tension : no data available

CS3 - EB

Conductivity : no data available

Oxidising potential : no data available

Surface tension : no data available

[DPX/MPX2 - CS4] MMX - R1

Conductivity : no data available

Oxidising potential : no data available

Surface tension : no data available

CS4 - IC

Conductivity : no data available

Oxidising potential : no data available

Surface tension : no data available

CS4 - MMX-R2

Conductivity : no data available

Oxidising potential : no data available

Surface tension : no data available

10. Stability and reactivity**10.1 Reactivity**

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

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

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: Vapours may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : no data available

Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : no data available

10.6 Hazardous decomposition products

Hazardous decomposition products : no data available

11. Toxicological information**11.1 Information on toxicological effects**

Further information : Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting., Concentrations substantially above the TLV value may cause narcotic effects., Solvents may degrease the skin.

[HIV/HBV/HCV/CTM/DPX/MPX/MPX2 - CS1] Magnetic Glass Particles (MGPs) Suspension

No ingredients are hazardous according to OHSA criteria.

Lysis Buffer (R2 / LYS RGT / [HIV/HBV/HCV/DPX/MPX/MPX2 - CS2])

No ingredients are hazardous according to OHSA criteria.

CS3 [Pase]

No ingredients are hazardous according to OHSA criteria.

CS3 - EB

No ingredients are hazardous according to OHSA criteria.

[DPX/MPX2 - CS4] MMX - R1

No ingredients are hazardous according to OHSA criteria.

CS4 - IC

No ingredients are hazardous according to OHSA criteria.

CS4 - MMX-R2

No ingredients are hazardous according to OHSA criteria.

12. Ecological information**12.1 Toxicity**

[HIV/HBV/HCV/CTM/DPX/MPX/MPX2 - CS1] Magnetic Glass Particles (MGPs) Suspension

No ingredients are hazardous according to OHSA criteria.

Lysis Buffer (R2 / LYS RGT / [HIV/HBV/HCV/DPX/MPX/MPX2 - CS2])

No ingredients are hazardous according to OHSA criteria.

CS3 [Pase]

No ingredients are hazardous according to OHSA criteria.

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CS3 - EB

No ingredients are hazardous according to OSHA criteria.

[DPX/MPX2 - CS4] MMX - R1

No ingredients are hazardous according to OSHA criteria.

CS4 - IC

No ingredients are hazardous according to OSHA criteria.

CS4 - MMX-R2

No ingredients are hazardous according to OSHA criteria.

12.2 Persistence and degradability**[HIV/HBV/HCV/CTM/DPX/MPX/MPX2 - CS1] Magnetic Glass Particles (MGPs) Suspension**

No ingredients are hazardous according to OSHA criteria.

Lysis Buffer (R2 / LYS RGT / [HIV/HBV/HCV/DPX/MPX/MPX2 - CS2])

No ingredients are hazardous according to OSHA criteria.

CS3 [Pase]

No ingredients are hazardous according to OSHA criteria.

CS3 - EB

No ingredients are hazardous according to OSHA criteria.

[DPX/MPX2 - CS4] MMX - R1

No ingredients are hazardous according to OSHA criteria.

CS4 - IC

No ingredients are hazardous according to OSHA criteria.

CS4 - MMX-R2

No ingredients are hazardous according to OSHA criteria.

12.3 Bioaccumulative potential**[HIV/HBV/HCV/CTM/DPX/MPX/MPX2 - CS1] Magnetic Glass Particles (MGPs) Suspension**

No ingredients are hazardous according to OSHA criteria.

Lysis Buffer (R2 / LYS RGT / [HIV/HBV/HCV/DPX/MPX/MPX2 - CS2])

No ingredients are hazardous according to OSHA criteria.

CS3 [Pase]

No ingredients are hazardous according to OSHA criteria.

CS3 - EB

No ingredients are hazardous according to OSHA criteria.

[DPX/MPX2 - CS4] MMX - R1

No ingredients are hazardous according to OSHA criteria.

CS4 - IC

No ingredients are hazardous according to OSHA criteria.

CS4 - MMX-R2

No ingredients are hazardous according to OSHA criteria.

12.4 Mobility in soil**[HIV/HBV/HCV/CTM/DPX/MPX/MPX2 - CS1] Magnetic Glass Particles (MGPs) Suspension**

No ingredients are hazardous according to OSHA criteria.

Lysis Buffer (R2 / LYS RGT / [HIV/HBV/HCV/DPX/MPX/MPX2 - CS2])

No ingredients are hazardous according to OSHA criteria.

CS3 [Pase]

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No ingredients are hazardous according to OHSA criteria.

CS3 - EB

No ingredients are hazardous according to OHSA criteria.

[DPX/MPX2 - CS4] MMX - R1

No ingredients are hazardous according to OHSA criteria.

CS4 - IC

No ingredients are hazardous according to OHSA criteria.

CS4 - MMX-R2

No ingredients are hazardous according to OHSA criteria.

12.5 Results of PBT and vPvB assessment***[HIV/HBV/HCV/CTM/DPX/MPX/MPX2 - CS1] Magnetic Glass Particles (MGPs) Suspension***

No ingredients are hazardous according to OHSA criteria.

Lysis Buffer (R2 / LYS RGT / [HIV/HBV/HCV/DPX/MPX/MPX2 - CS2])

No ingredients are hazardous according to OHSA criteria.

CS3 [Pase]

No ingredients are hazardous according to OHSA criteria.

CS3 - EB

No ingredients are hazardous according to OHSA criteria.

[DPX/MPX2 - CS4] MMX - R1

No ingredients are hazardous according to OHSA criteria.

CS4 - IC

No ingredients are hazardous according to OHSA criteria.

CS4 - MMX-R2

No ingredients are hazardous according to OHSA criteria.

12.6 Other adverse effects**Product:**

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.

[HIV/HBV/HCV/CTM/DPX/MPX/MPX2 - CS1] Magnetic Glass Particles (MGPs) Suspension

No ingredients are hazardous according to OHSA criteria.

Lysis Buffer (R2 / LYS RGT / [HIV/HBV/HCV/DPX/MPX/MPX2 - CS2])

No ingredients are hazardous according to OHSA criteria.

CS3 [Pase]

No ingredients are hazardous according to OHSA criteria.

CS3 - EB

No ingredients are hazardous according to OHSA criteria.

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[DPX/MPX2 - CS4] MMX - R1

No ingredients are hazardous according to OSHA criteria.

CS4 - IC

No ingredients are hazardous according to OSHA criteria.

CS4 - MMX-R2

No ingredients are hazardous according to OSHA criteria.

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

Product : The product should not be allowed to enter drains, water courses or the soil.
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.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.

14. Transport information**14.1 UN number**

DOT : 1219
IMDG : 1219
IATA : 1219

14.2 Proper shipping name

DOT : Isopropanol
IMDG : Isopropanol
IATA : Isopropanol

14.3 Transport hazard class

DOT : 3
IMDG : 3
IATA : 3

14.4 Packing group

DOT
Packaging group : II
Labels : 3
Tunnel restriction code : packed, Transport in tanks
IMDG
Packaging group : II
Labels : 3

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EmS Number : F-E, S-D

IATA_C

Packing instruction (cargo aircraft) : 364

Packaging group : II

Labels : 3

IATA_P

Packing instruction (passenger aircraft) : 353

Packaging group : II

Labels : 3

14.5 Environmental hazards**DOT**

Environmentally hazardous : no

IMDG

Marine pollutant : no

IATA

Environmentally hazardous : no

14.6 Special precautions for user

no data available

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

Remarks : not applicable

15. Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture***[HIV/HBV/HCV/CTM/DPX/MPX/MPX2 - CS1] Magnetic Glass Particles (MGPs) Suspension***REGULATORY INFORMATION****OSHA Hazards** : Flammable liquid
Moderate eye irritant**WHMIS Classification** : B2 Flammable liquid
Flammable liquid
D2B Toxic Material Causing Other Toxic Effects
Specific target organ toxicity - single exposure

Moderate eye irritant

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

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SARA 302 Reportable Quantity

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

SARA 311/312 Hazards

: Fire Hazard
Acute Health Hazard

EPCRA - Emergency Planning and Community Right-to-Know Act**SARA 302**

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

SARA 304

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

Components

: propan-2-ol

Clean Air Act**Ozone-Depletion Potential**

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

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

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

propan-2-ol 93 %

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.

US State Regulations**California Prop 65 Components**

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

Lysis Buffer (R2 / LYS RGT / [HIV/HBV/HCV/DPX/MPX/MPX2 - CS2])

REGULATORY INFORMATION**OSHA Hazards**

: Harmful by ingestion.
Moderate skin irritant

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Severe eye irritant

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

Severe eye irritant

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

CERCLA Reportable Quantity**SARA 302 Reportable Quantity**

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

Acute Health Hazard

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

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

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

Clean Air Act

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

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

Clean Water Act

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.

US State Regulations

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

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*CS3 [Pase]***REGULATORY INFORMATION**

OSHA Hazards : Respiratory sensitiser
Moderate skin irritant
Severe eye irritant
Moderate respiratory irritant

WHMIS Classification : D2A Very Toxic Material Causing Other Toxic Effects
Respiratory sensitiser
D2B Toxic Material Causing Other Toxic Effects
Moderate skin irritant

Moderate respiratory irritant

Severe eye irritant

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

CERCLA Reportable Quantity**SARA 302 Reportable Quantity**

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

Acute Health Hazard

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

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

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

Clean Air Act

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

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

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):

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glycerol

50 %

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.

US State Regulations**California Prop 65
Components**

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

*CS3 - EB***REGULATORY INFORMATION**

OSHA Hazards : No OSHA Hazards

WHMIS Classification : Not Rated

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

CERCLA Reportable Quantity

Components : sodium azide 1000 lbs

SARA 302 Reportable Quantity

Product : Calculated RQ exceeds reasonably attainable upper limit.

Components : sodium azide
No SARA Hazards

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

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

SARA 304 : Calculated RQ exceeds reasonably attainable upper limit.
Components : sodium azide

Clean Air Act

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

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

Clean Water Act

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

edetic acid

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

edetic acid

US State Regulations**California Prop 65 Components**

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

[DPX/MPX2 - CS4] MMX - R1
REGULATORY INFORMATION

OSHA Hazards : No OSHA Hazards

WHMIS Classification : Not Rated

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

CERCLA Reportable Quantity

Components : sodium azide 1000 lbs

SARA 302 Reportable Quantity

Product : Calculated RQ exceeds reasonably attainable upper limit.

Components : sodium azide
No SARA Hazards

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

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

SARA 304 : Calculated RQ exceeds reasonably attainable upper limit.
Components : sodium azide

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Clean Air Act

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

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

Mangan(II)-acetate Tetrahydrate 0.25 %

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):

dimethyl sulfoxide 14.35 %

glycerol 13.98 %

acetic acid 0.0099 %

Clean Water Act

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

acetic acid

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

acetic acid

US State Regulations

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

CS4 - IC

REGULATORY INFORMATION

OSHA Hazards : No OSHA Hazards

WHMIS Classification : Not Rated

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

CERCLA Reportable Quantity

Components : sodium azide 1000 lbs

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SARA 302 Reportable Quantity

Product : Calculated RQ exceeds reasonably attainable upper limit.

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

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

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.

US State Regulations**California Prop 65 Components** : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.*CS4 - MMX-R2***REGULATORY INFORMATION****OSHA Hazards** : No OSHA Hazards**WHMIS Classification** : Not Rated

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

CERCLA Reportable Quantity

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Components : sodium azide 1000 lbs

SARA 302 Reportable Quantity

Product : Calculated RQ exceeds reasonably attainable upper limit.

Components : sodium azide
No SARA Hazards

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

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

SARA 304 : Calculated RQ exceeds reasonably attainable upper limit.
Components : sodium azide

Clean Air Act

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

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

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):

dimethyl sulfoxide 6 %

glycerol 4.54 %

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.

US State Regulations

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

15.2 Chemical Safety Assessment

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

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16. Other information

Full text of R-phrases referred to under sections 2 and 3

Full text of H-Statements referred to under sections 2 and 3.

Further information

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