

**Capture enhancement reagent**

Version 1.43      Revision Date: 2016/10/27      SDS Number: 100000010878      Date of last issue: 2016/08/10  
Date of first issue: 2015/02/04

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**SECTION 1. IDENTIFICATION**

Product name : Capture enhancement reagent  
Substance name : Capture enhancement reagent  
7037

**Manufacturer or supplier's details**

Company name of supplier : Janssen Diagnostics, LLC

Address : 700 US Highway Route 202  
South Raritan, NJ 08869  
US

Telephone : (877) 837-4339

E-mail address Responsible/issuing person : SDSJanssen@its.jnj.com

**Emergency telephone number** : **CHEMTREC US: 0800-424-9300**  
**CHEMTREC International: +1 703-527-3887**

**Recommended use of the chemical and restrictions on use**

Recommended use : Assay reagent

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**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Not a hazardous substance or mixture.

**GHS label elements**

Not a hazardous substance or mixture.

**Other hazards**

None known.

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**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

Chemical nature : Liquid

**Hazardous components**

Chemical name	CAS-No.	Concentration (%)
sodium azide	26628-22-8	>= 0.1 - < 1

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**SECTION 4. FIRST AID MEASURES**

If inhaled : If breathed in, move person into fresh air.  
Consult a physician.

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- In case of skin contact : Take off contaminated clothing and shoes immediately. Wash off with plenty of water. If symptoms persist, call a physician.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 5 minutes. Remove contact lenses. If eye irritation persists, consult a specialist.
- If swallowed : If swallowed, rinse mouth with water (only if the person is conscious). Call a physician immediately.
- Most important symptoms and effects, both acute and delayed : No information available.
- Notes to physician : Treat symptomatically.
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**SECTION 5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Specific hazards during fire-fighting : No information available.
- Further information : No information available.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures : In the event of an accidental release the emergency response team must respond based on a risk assessment and use personal protective equipment as appropriate.
- Environmental precautions : Should not be released into the environment.
- Methods and materials for containment and cleaning up : Large spills: Dam up. Soak up with inert absorbent material. Keep in properly labelled containers. Small spills: Gently cover the spill with an absorbent towel or pad. Large spills + Small spills: Keep in suitable, closed containers for disposal. Treat recovered material as described in the section "Disposal considerations".
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**SECTION 7. HANDLING AND STORAGE**

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- Advice on protection against fire and explosion : No data available
- Advice on safe handling : To avoid thermal decomposition, do not overheat. Avoid inhalation, ingestion and contact with skin and eyes. Use personal protective equipment as required.
- Conditions for safe storage : To maintain product quality, do not store in heat or direct sunlight. Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Keep locked up. Keep refrigerated.
- Recommended storage temperature : 2 - 8 °C

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

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
sodium azide	26628-22-8	C	0.1 ppm (HN3)	NIOSH REL
		C (Vapour)	0.11 ppm (Hydrazoic acid)	ACGIH
		C	0.1 ppm (Ammonia)	OSHA P0
		C	0.29 mg/m <sup>3</sup> (Sodium azide)	ACGIH
		C	0.3 mg/m <sup>3</sup> (Sodium azide)	NIOSH REL
		C	0.3 mg/m <sup>3</sup> (Sodium azide)	OSHA P0
		C	0.1 ppm 0.3 mg/m <sup>3</sup>	CAL PEL

**Engineering measures** : All personal protective equipment should be based on a risk assessment. Consult a Environment Health Safety expert if necessary.

**Personal protective equipment**

Respiratory protection : Engineering controls should always be the primary method of controlling exposures. If respiratory protective equipment is needed for certain activities, the type as well as the corresponding protection factor will depend upon the risk assessment and air concentrations, hazards, physical and warning properties of substances present.

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No personal respiratory protective equipment normally required.

## Hand protection

Remarks : Disposable gloves

Eye protection : No special precautions required.

Skin and body protection : No special precautions required.

Protective measures : The type of protective equipment must be selected based on the Environmental Health and Safety risk assessment. Consult a Environmental Health and Safety expert if necessary.

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

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid

Colour : clear

Odour : No data available

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**SECTION 10. STABILITY AND REACTIVITY**

Reactivity : None reasonably foreseeable.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : No dangerous reaction known under conditions of normal use.

Conditions to avoid : To avoid thermal decomposition, do not overheat.

Incompatible materials : Oxidizing agents

Hazardous decomposition products : None known.

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**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity****Product:**

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

**Components:**

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**sodium azide**

Acute oral toxicity : LD50 (Rat): 27 mg/kg

**Skin corrosion/irritation**

No data available

**Serious eye damage/eye irritation**

No data available

**Respiratory or skin sensitisation**

No data available

**Germ cell mutagenicity**

No data available

**Carcinogenicity****IARC**

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.

**OSHA**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**Reproductive toxicity**

No data available

**STOT - single exposure**

No data available

**STOT - repeated exposure**

No data available

**Repeated dose toxicity**

No data available

**Aspiration toxicity**

No data available

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Components:****sodium azide**Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.7 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia pulex (Water flea)): 4.2 mg/l

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aquatic invertebrates	Exposure time: 96 h
Toxicity to algae	: IC50: 272 mg/l
Toxicity to bacteria	: EC50 (Photobacterium phosphoreum): 38.5 mg/l

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects****Product:**

Ozone-Depletion Potential	: 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).
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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues	: In accordance with National, Federal, State and Local regulations.
Contaminated packaging	: Empty containers should be taken to an approved waste handling site for recycling or disposal.

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**SECTION 14. TRANSPORT INFORMATION****International Regulations****UNRTDG**

Not regulated as a dangerous good

**IATA-DGR**

Not regulated as a dangerous good

**IMDG-Code**

Not regulated as a dangerous good

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**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**

Not regulated as a dangerous good

**SECTION 15. REGULATORY INFORMATION**
**Clean Air Act**

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 hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

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

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

**Clean Water Act**

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

DINATRIUMMONOHYD	7558-79-4	0.122 %
ROGEENFOSFAAT		

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

DINATRIUMMONOHYD	7558-79-4	0.122 %
ROGEENFOSFAAT		

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

**Massachusetts Right To Know**

sodium azide	26628-22-8	0.1 - 1 %
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**Pennsylvania Right To Know**

water	7732-18-5	90 - 100 %
DINATRIUMMONOHYDROGEENFOSFAAT	7558-79-4	0.1 - 1 %
sodium azide	26628-22-8	0.1 - 1 %

**New Jersey Right To Know**

water	7732-18-5	90 - 100 %
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**California Prop 65**

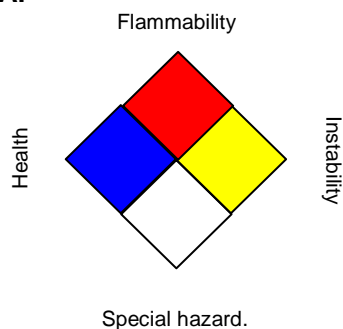
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**Other regulations**

: Restricted to professional users.

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**SECTION 16. OTHER INFORMATION**
**Further information**
**NFPA:**

**HMIS III:**

<b>HEALTH</b>	
<b>FLAMMABILITY</b>	
<b>PHYSICAL HAZARD</b>	

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

Revision Date : 2016/10/27

**Date and Number Formats**

This document uses the following notation for printing dates and numbers:

**Date:**                      Dec 31th, 2012                      as                      2012/12/31  
**Numbers:**                      123456,78                      as                      123,456.78

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.

US / EN



**Nucleic acid dye**

Version 1.26      Revision Date: 2016/10/27      SDS Number: 100000010877      Date of last issue: 2016/08/01  
Date of first issue: 2015/02/04

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**SECTION 1. IDENTIFICATION**

Product name : Nucleic acid dye  
Substance name : Nucleic acid dye  
7041

**Manufacturer or supplier's details**

Company name of supplier : Janssen Diagnostics, LLC

Address : 700 US Highway Route 202  
South Raritan, NJ 08869  
US

Telephone : (877) 837-4339

E-mail address Responsible/issuing person : SDSJanssen@its.jnj.com

**Emergency telephone number** : **CHEMTREC US: 0800-424-9300**  
**CHEMTREC International: +1 703-527-3887**

**Recommended use of the chemical and restrictions on use**

Recommended use : Assay reagent

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**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Not a hazardous substance or mixture.

**GHS label elements**

Not a hazardous substance or mixture.

**Other hazards**

None known.

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**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

Chemical nature : Liquid

**Hazardous components**

No hazardous ingredients

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**SECTION 4. FIRST AID MEASURES**

If inhaled : If breathed in, move person into fresh air.  
Consult a physician.

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## Nucleic acid dye

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|---|---|--|
| In case of skin contact                                     | : | Take off contaminated clothing and shoes immediately.<br>Wash off immediately with plenty of water.<br>If symptoms persist, call a physician.<br>Wash contaminated clothing before re-use. |
| In case of eye contact                                      | : | Rinse immediately with plenty of water, also under the eyelids, for at least 5 minutes.<br>Remove contact lenses.<br>If eye irritation persists, consult a specialist.                     |
| If swallowed  | : | If swallowed, rinse mouth with water (only if the person is conscious).<br>Call a physician immediately.   |
| Most important symptoms and effects, both acute and delayed | : | No information available.  |
| Notes to physician  | : | Treat symptomatically.   |
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### SECTION 5. FIREFIGHTING MEASURES

- |   |   |   |
|---|---|---|
| Suitable extinguishing media                  | : | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Specific hazards during fire-fighting         | : | No information available.   |
| Further information                           | : | No information available.   |
| Special protective equipment for firefighters | : | In the event of fire, wear self-contained breathing apparatus.  |
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### SECTION 6. ACCIDENTAL RELEASE MEASURES

- |   |   |  |
|---|---|--|
| Personal precautions, protective equipment and emergency procedures | : | In the event of an accidental release the emergency response team must respond based on a risk assessment and use personal protective equipment as appropriate.  |
| Environmental precautions   | : | Should not be released into the environment.   |
| Methods and materials for containment and cleaning up               | : | Large spills: Dam up. Soak up with inert absorbent material. Keep in properly labelled containers.<br>Small spills: Gently cover the spill with an absorbent towel or pad.<br>Large spills + Small spills: Keep in suitable, closed containers for disposal. Treat recovered material as described in the section "Disposal considerations". |
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### SECTION 7. HANDLING AND STORAGE

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Advice on protection against fire and explosion : No data available

Advice on safe handling : To avoid thermal decomposition, do not overheat. Avoid inhalation, ingestion and contact with skin and eyes. Use personal protective equipment as required.

Conditions for safe storage : To maintain product quality, do not store in heat or direct sunlight. Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Keep locked up. Keep refrigerated.

Recommended storage temperature : 2 - 8 °C

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

Contains no substances with occupational exposure limit values.

**Engineering measures** : All personal protective equipment should be based on a risk assessment. Consult a Environment Health Safety expert if necessary.

**Personal protective equipment**

Respiratory protection : Engineering controls should always be the primary method of controlling exposures. If respiratory protective equipment is needed for certain activities, the type as well as the corresponding protection factor will depend upon the risk assessment and air concentrations, hazards, physical and warning properties of substances present. No personal respiratory protective equipment normally required.

Hand protection

Remarks : Disposable gloves

Eye protection : No special precautions required.

Skin and body protection : No special precautions required.

Protective measures : The type of protective equipment must be selected based on the Environmental Health and Safety risk assessment. Consult a Environmental Health and Safety expert if necessary.

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

**Nucleic acid dye**

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practice.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	: liquid
Colour	: clear, light yellow
Odour	: odourless
pH	: 7.5
Solubility(ies) Water solubility	: soluble

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	: None reasonably foreseeable.
Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous reactions	: No dangerous reaction known under conditions of normal use.
Conditions to avoid	: To avoid thermal decomposition, do not overheat.
Incompatible materials	: None known.
Hazardous decomposition products	: None known.

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

No data available

**Serious eye damage/eye irritation**

No data available

**Respiratory or skin sensitisation**

No data available

**Nucleic acid dye**

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**Germ cell mutagenicity**

No data available

**Carcinogenicity****IARC**

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.

**OSHA**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**Reproductive toxicity**

No data available

**STOT - single exposure**

No data available

**STOT - repeated exposure**

No data available

**Repeated dose toxicity**

No data available

**Aspiration toxicity**

No data available

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity**

No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects****Product:**

Ozone-Depletion Potential : 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 +

**Nucleic acid dye**

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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

- Waste from residues : In accordance with National, Federal, State and Local regulations.
- Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.
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**SECTION 14. TRANSPORT INFORMATION****International Regulations****UNRTDG**

Not regulated as a dangerous good

**IATA-DGR**

Not regulated as a dangerous good

**IMDG-Code**

Not regulated as a dangerous good

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

Not applicable for product as supplied.

**National Regulations****49 CFR**

Not regulated as a dangerous good

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**SECTION 15. REGULATORY INFORMATION****Clean Air Act**

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 hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (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.

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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

### Massachusetts Right To Know

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

### Pennsylvania Right To Know

water      7732-18-5      90 - 100 %

### New Jersey Right To Know

water      7732-18-5      90 - 100 %

### California Prop 65

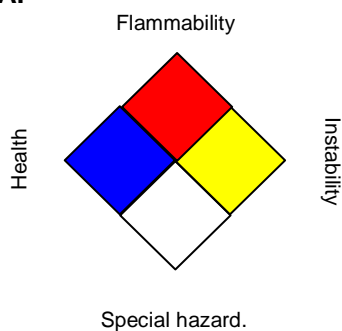
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**Other regulations** : Restricted to professional users.

## SECTION 16. OTHER INFORMATION

### Further information

#### NFPA:



#### HMIS III:

<b>HEALTH</b>	
<b>FLAMMABILITY</b>	
<b>PHYSICAL HAZARD</b>	

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

Revision Date : 2016/10/27

### Date and Number Formats

This document uses the following notation for printing dates and numbers:

**Date:** Dec 31th, 2012 as 2012/12/31  
**Numbers:** 123456,78 as 123,456.78

**Nucleic acid dye**



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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.

US / EN



**Permeabilization reagent**

Version 1.28      Revision Date: 2016/10/27      SDS Number: 100000010887      Date of last issue: 2016/08/09  
Date of first issue: 2015/02/04

**SECTION 1. IDENTIFICATION**

Product name : Permeabilization reagent  
Substance name : Permeabilization reagent  
7038

**Manufacturer or supplier's details**

Company name of supplier : Janssen Diagnostics, LLC

Address : 700 US Highway Route 202  
South Raritan, NJ 08869  
US

Telephone : (877) 837-4339

E-mail address Responsible/issuing person : SDSJanssen@its.jnj.com

**Emergency telephone number** : **CHEMTREC US: 0800-424-9300**  
**CHEMTREC International: +1 703-527-3887**

**Recommended use of the chemical and restrictions on use**

Recommended use : Assay reagent

**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Not a hazardous substance or mixture.

**GHS label elements**

Not a hazardous substance or mixture.

**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

Chemical nature : Liquid

**Hazardous components**

Chemical name	CAS-No.	Concentration (%)
sodium azide	26628-22-8	>= 0.1 - < 1

**SECTION 4. FIRST AID MEASURES**

If inhaled : If breathed in, move person into fresh air.  
Consult a physician.

**Permeabilization reagent**

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- In case of skin contact : Take off contaminated clothing and shoes immediately. Wash off with plenty of water. If symptoms persist, call a physician.
- In case of eye contact : Remove contact lenses. If eye irritation persists, consult a specialist. Rinse immediately with plenty of water, also under the eyelids, for at least 5 minutes.
- If swallowed : If swallowed, rinse mouth with water (only if the person is conscious). Call a physician immediately.
- Most important symptoms and effects, both acute and delayed : No information available.
- Notes to physician : Treat symptomatically.
- 

**SECTION 5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Specific hazards during fire-fighting : No information available.
- Further information : No information available.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
- 

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures : In the event of an accidental release the emergency response team must respond based on a risk assessment and use personal protective equipment as appropriate.
- Environmental precautions : Should not be released into the environment.
- Methods and materials for containment and cleaning up : Large spills: Dam up. Soak up with inert absorbent material. Keep in properly labelled containers. Small spills: Gently cover the spill with an absorbent towel or pad. Large spills + Small spills: Keep in suitable, closed containers for disposal. Treat recovered material as described in the section "Disposal considerations".
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**SECTION 7. HANDLING AND STORAGE**

**Permeabilization reagent**

Version 1.28      Revision Date: 2016/10/27      SDS Number: 100000010887      Date of last issue: 2016/08/09  
 Date of first issue: 2015/02/04

- Advice on protection against fire and explosion : No data available
- Advice on safe handling : To avoid thermal decomposition, do not overheat. Avoid inhalation, ingestion and contact with skin and eyes. Use personal protective equipment as required.
- Conditions for safe storage : To maintain product quality, do not store in heat or direct sunlight. Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Keep locked up. Keep refrigerated.
- Recommended storage temperature : 2 - 8 °C

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

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
sodium azide	26628-22-8	C	0.1 ppm (HN3)	NIOSH REL
		C (Vapour)	0.11 ppm (Hydrazoic acid)	ACGIH
		C	0.1 ppm (Ammonia)	OSHA P0
		C	0.29 mg/m <sup>3</sup> (Sodium azide)	ACGIH
		C	0.3 mg/m <sup>3</sup> (Sodium azide)	NIOSH REL
		C	0.3 mg/m <sup>3</sup> (Sodium azide)	OSHA P0
		C	0.1 ppm 0.3 mg/m <sup>3</sup>	CAL PEL

**Engineering measures** : All personal protective equipment should be based on a risk assessment. Consult a Environment Health Safety expert if necessary.

**Personal protective equipment**

Respiratory protection : Engineering controls should always be the primary method of controlling exposures. If respiratory protective equipment is needed for certain activities, the type as well as the corresponding protection factor will depend upon the risk assessment and air concentrations, hazards, physical and warning properties of substances present.

**Permeabilization reagent**

Version	Revision Date:	SDS Number:	Date of last issue: 2016/08/09
1.28	2016/10/27	100000010887	Date of first issue: 2015/02/04

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No personal respiratory protective equipment normally required.

Hand protection

Remarks : Disposable gloves

Eye protection : No special precautions required.

Skin and body protection : No special precautions required.

Protective measures : The type of protective equipment must be selected based on the Environmental Health and Safety risk assessment. Consult a Environmental Health and Safety expert if necessary.

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

---

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid

Colour : clear

Odour : odourless

pH : 7.5

Solubility(ies)  
Water solubility : soluble

---

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity : None reasonably foreseeable.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : No dangerous reaction known under conditions of normal use.

Conditions to avoid : To avoid thermal decomposition, do not overheat.

Incompatible materials : Strong acids and strong bases  
Reducing agents  
Strong oxidizing agents

Hazardous decomposition products : None known.

**Permeabilization reagent**

Version	Revision Date:	SDS Number:	Date of last issue: 2016/08/09
1.28	2016/10/27	100000010887	Date of first issue: 2015/02/04

---

**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity****Product:**

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

**Components:****sodium azide**

Acute oral toxicity : LD50 (Rat): 27 mg/kg

**Skin corrosion/irritation**

No data available

**Serious eye damage/eye irritation**

No data available

**Respiratory or skin sensitisation**

No data available

**Germ cell mutagenicity**

No data available

**Carcinogenicity****IARC**

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.

**OSHA**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**Reproductive toxicity**

No data available

**STOT - single exposure**

No data available

**STOT - repeated exposure**

No data available

**Repeated dose toxicity**

No data available

**Aspiration toxicity**

No data available

**Permeabilization reagent**

Version	Revision Date:	SDS Number:	Date of last issue: 2016/08/09
1.28	2016/10/27	100000010887	Date of first issue: 2015/02/04

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Components:****sodium azide**

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.7 mg/l  
Exposure time: 96 h

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

Toxicity to algae : IC50: 272 mg/l

Toxicity to bacteria : EC50 (Photobacterium phosphoreum): 38.5 mg/l

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects****Product:**

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

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues : In accordance with National, Federal, State and Local regulations.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

**Permeabilization reagent**

Version	Revision Date:	SDS Number:	Date of last issue: 2016/08/09
1.28	2016/10/27	100000010887	Date of first issue: 2015/02/04

**SECTION 14. TRANSPORT INFORMATION**
**International Regulations**
**UNRTDG**

Not regulated as a dangerous good

**IATA-DGR**

Not regulated as a dangerous good

**IMDG-Code**

Not regulated as a dangerous good

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

Not applicable for product as supplied.

**National Regulations**
**49 CFR**

Not regulated as a dangerous good

**SECTION 15. REGULATORY INFORMATION**
**Clean Air Act**

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 hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (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:

DINATRIUMMONOHYD	7558-79-4	0.112 %
ROGEENFOSFAAT		

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

DINATRIUMMONOHYD	7558-79-4	0.112 %
ROGEENFOSFAAT		

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

**Massachusetts Right To Know**

sodium azide	26628-22-8	0.1 - 1 %
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**Pennsylvania Right To Know**

water	7732-18-5	90 - 100 %
DINATRIUMMONOHYDROGEENFOSFAAT	7558-79-4	0.1 - 1 %

**Permeabilization reagent**

Version 1.28	Revision Date: 2016/10/27	SDS Number: 100000010887	Date of last issue: 2016/08/09 Date of first issue: 2015/02/04
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sodium azide	26628-22-8	0.1 - 1 %
--------------	------------	-----------

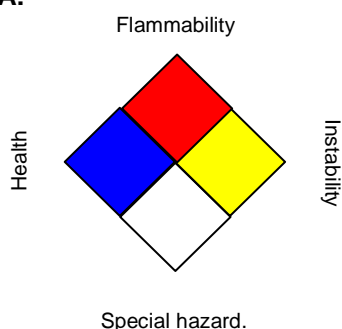
**New Jersey Right To Know**

water	7732-18-5	90 - 100 %
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**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.

**Other regulations** : Restricted to professional users.

**SECTION 16. OTHER INFORMATION**
**Further information**
**NFPA:**

**HMIS III:**

<b>HEALTH</b>	
<b>FLAMMABILITY</b>	
<b>PHYSICAL HAZARD</b>	

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

Revision Date : 2016/10/27

**Date and Number Formats**

This document uses the following notation for printing dates and numbers:

**Date:** Dec 31th, 2012 as 2012/12/31

**Numbers:** 123456,78 as 123,456.78

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.

US / EN



**Dilution buffer**

Version 1.37      Revision Date: 2016/10/27      SDS Number: 100000010879      Date of last issue: 2016/08/09  
Date of first issue: 2015/02/04

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**SECTION 1. IDENTIFICATION**

Product name : Dilution buffer  
Substance name : Dilution buffer  
7039

**Manufacturer or supplier's details**

Company name of supplier : Janssen Diagnostics, LLC

Address : 700 US Highway Route 202  
South Raritan, NJ 08869  
US

Telephone : (877) 837-4339

E-mail address Responsible/issuing person : SDSJanssen@its.jnj.com

**Emergency telephone number** : **CHEMTREC US: 0800-424-9300**  
**CHEMTREC International: +1 703-527-3887**

**Recommended use of the chemical and restrictions on use**

Recommended use : Assay reagent

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**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Not a hazardous substance or mixture.

**GHS label elements**

Not a hazardous substance or mixture.

**Other hazards**

None known.

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**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

Chemical nature : Liquid

**Hazardous components**

Chemical name	CAS-No.	Concentration (%)
sodium azide	26628-22-8	>= 0.1 - < 1

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**SECTION 4. FIRST AID MEASURES**

If inhaled : If breathed in, move person into fresh air.  
Consult a physician.

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## Dilution buffer

Version	Revision Date:	SDS Number:	Date of last issue: 2016/08/09
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- |   |   |  |
|---|---|--|
| In case of skin contact                                     | : | Take off contaminated clothing and shoes immediately. Wash off with plenty of water. If symptoms persist, call a physician.                                      |
| In case of eye contact                                      | : | Rinse immediately with plenty of water, also under the eyelids, for at least 5 minutes. Remove contact lenses. If eye irritation persists, consult a specialist. |
| If swallowed  | : | If swallowed, rinse mouth with water (only if the person is conscious). Call a physician immediately.  |
| Most important symptoms and effects, both acute and delayed | : | No information available.  |
| Notes to physician  | : | Treat symptomatically.   |
- 

### SECTION 5. FIREFIGHTING MEASURES

- |   |   |   |
|---|---|---|
| Suitable extinguishing media                  | : | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Specific hazards during fire-fighting         | : | No information available.   |
| Further information                           | : | No information available.   |
| Special protective equipment for firefighters | : | In the event of fire, wear self-contained breathing apparatus.  |
- 

### SECTION 6. ACCIDENTAL RELEASE MEASURES

- |   |   |  |
|---|---|--|
| Personal precautions, protective equipment and emergency procedures | : | In the event of an accidental release the emergency response team must respond based on a risk assessment and use personal protective equipment as appropriate.  |
| Environmental precautions   | : | Should not be released into the environment.   |
| Methods and materials for containment and cleaning up               | : | Large spills: Dam up. Soak up with inert absorbent material. Keep in properly labelled containers.<br>Small spills: Gently cover the spill with an absorbent towel or pad.<br>Large spills + Small spills: Keep in suitable, closed containers for disposal. Treat recovered material as described in the section "Disposal considerations". |
- 

### SECTION 7. HANDLING AND STORAGE

**Dilution buffer**

Version 1.37      Revision Date: 2016/10/27      SDS Number: 100000010879      Date of last issue: 2016/08/09  
 Date of first issue: 2015/02/04

- Advice on protection against fire and explosion : No data available
- Advice on safe handling : To avoid thermal decomposition, do not overheat. Avoid inhalation, ingestion and contact with skin and eyes. Use personal protective equipment as required.
- Conditions for safe storage : To maintain product quality, do not store in heat or direct sunlight. Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Keep locked up. Keep refrigerated.
- Recommended storage temperature : 2 - 8 °C

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

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
sodium azide	26628-22-8	C	0.1 ppm (HN3)	NIOSH REL
		C (Vapour)	0.11 ppm (Hydrazoic acid)	ACGIH
		C	0.1 ppm (Ammonia)	OSHA P0
		C	0.29 mg/m <sup>3</sup> (Sodium azide)	ACGIH
		C	0.3 mg/m <sup>3</sup> (Sodium azide)	NIOSH REL
		C	0.3 mg/m <sup>3</sup> (Sodium azide)	OSHA P0
		C	0.1 ppm 0.3 mg/m <sup>3</sup>	CAL PEL

**Engineering measures** : All personal protective equipment should be based on a risk assessment. Consult a Environment Health Safety expert if necessary.

**Personal protective equipment**

Respiratory protection : Engineering controls should always be the primary method of controlling exposures. If respiratory protective equipment is needed for certain activities, the type as well as the corresponding protection factor will depend upon the risk assessment and air concentrations, hazards, physical and warning properties of substances present.

**Dilution buffer**

Version	Revision Date:	SDS Number:	Date of last issue: 2016/08/09
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No personal respiratory protective equipment normally required.

Hand protection

Remarks : Disposable gloves

Eye protection : No special precautions required.

Skin and body protection : No special precautions required.

Protective measures : The type of protective equipment must be selected based on the Environmental Health and Safety risk assessment. Consult a Environmental Health and Safety expert if necessary.

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

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid

Colour : clear

Odour : odourless

pH : 7.5

Solubility(ies)  
Water solubility : soluble

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**SECTION 10. STABILITY AND REACTIVITY**

Reactivity : None reasonably foreseeable.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : No dangerous reaction known under conditions of normal use.

Conditions to avoid : To avoid thermal decomposition, do not overheat.

Incompatible materials : Oxidizing agents

Hazardous decomposition products : None known.

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

**Dilution buffer**

Version 1.37      Revision Date: 2016/10/27      SDS Number: 100000010879      Date of last issue: 2016/08/09  
Date of first issue: 2015/02/04

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**Product:**

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

**Components:****sodium azide**

Acute oral toxicity : LD50 (Rat): 27 mg/kg

**Skin corrosion/irritation**

No data available

**Serious eye damage/eye irritation**

No data available

**Respiratory or skin sensitisation**

No data available

**Germ cell mutagenicity**

No data available

**Carcinogenicity****IARC**

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.

**OSHA**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**Reproductive toxicity**

No data available

**STOT - single exposure**

No data available

**STOT - repeated exposure**

No data available

**Repeated dose toxicity**

No data available

**Aspiration toxicity**

No data available

**Dilution buffer**

Version	Revision Date:	SDS Number:	Date of last issue: 2016/08/09
1.37	2016/10/27	100000010879	Date of first issue: 2015/02/04

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Components:****sodium azide**

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.7 mg/l  
Exposure time: 96 h

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

Toxicity to algae : IC50: 272 mg/l

Toxicity to bacteria : EC50 (Photobacterium phosphoreum): 38.5 mg/l

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects****Product:**

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

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues : In accordance with National, Federal, State and Local regulations.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

**Dilution buffer**

Version	Revision Date:	SDS Number:	Date of last issue: 2016/08/09
1.37	2016/10/27	100000010879	Date of first issue: 2015/02/04

**SECTION 14. TRANSPORT INFORMATION**
**International Regulations**
**UNRTDG**

Not regulated as a dangerous good

**IATA-DGR**

Not regulated as a dangerous good

**IMDG-Code**

Not regulated as a dangerous good

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

Not applicable for product as supplied.

**National Regulations**
**49 CFR**

Not regulated as a dangerous good

**SECTION 15. REGULATORY INFORMATION**
**Clean Air Act**

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 hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (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:

DINATRIUMMONOHYD	7558-79-4	0.12 %
ROGEENFOSFAAT		

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

DINATRIUMMONOHYD	7558-79-4	0.12 %
ROGEENFOSFAAT		

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

**Massachusetts Right To Know**

sodium azide	26628-22-8	0.1 - 1 %
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**Pennsylvania Right To Know**

water	7732-18-5	90 - 100 %
DINATRIUMMONOHYDROGEENFOSFAAT	7558-79-4	0.1 - 1 %

**Dilution buffer**

Version 1.37      Revision Date: 2016/10/27      SDS Number: 100000010879      Date of last issue: 2016/08/09  
Date of first issue: 2015/02/04

sodium azide      26628-22-8      0.1 - 1 %

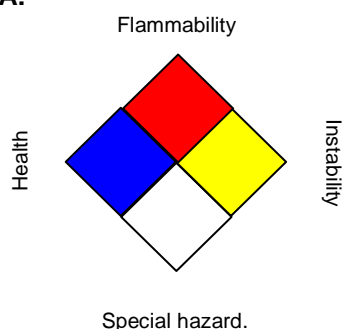
**New Jersey Right To Know**

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.

**Other regulations** : Restricted to professional users.

**SECTION 16. OTHER INFORMATION**
**Further information**
**NFPA:**

**HMIS III:**

<b>HEALTH</b>	
<b>FLAMMABILITY</b>	
<b>PHYSICAL HAZARD</b>	

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

Revision Date : 2016/10/27

**Date and Number Formats**

This document uses the following notation for printing dates and numbers:

**Date:** Dec 31th, 2012 as 2012/12/31

**Numbers:** 123456,78 as 123,456.78

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.

US / EN



**Cell fixative**

Version 1.40      Revision Date: 2016/11/15      SDS Number: 100000010702      Date of last issue: 2016/10/27  
Date of first issue: 2015/02/04

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**SECTION 1. IDENTIFICATION**

Product name : Cell fixative  
Substance name : Cell fixative  
7042

**Manufacturer or supplier's details**

Company name of supplier : Janssen Diagnostics, LLC

Address : 700 US Highway Route 202  
South Raritan, NJ 08869  
US

Telephone : (877) 837-4339

E-mail address Responsible/issuing person : SDSJanssen@its.jnj.com

**Emergency telephone number** : **CHEMTREC US: 0800-424-9300**  
**CHEMTREC International: +1 703-527-3887**

**Recommended use of the chemical and restrictions on use**

Recommended use : Assay reagent

---

**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Skin sensitisation : Category 1

**GHS label elements**

Hazard pictograms :



Signal word : Warning

Hazard statements : H317 May cause an allergic skin reaction.

Precautionary statements : **Prevention:**  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves.  
**Response:**  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P363 Wash contaminated clothing before reuse.

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**Cell fixative**

Version 1.40      Revision Date: 2016/11/15      SDS Number: 100000010702      Date of last issue: 2016/10/27  
Date of first issue: 2015/02/04

**Disposal:**

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

**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

Chemical nature : Liquid

**Hazardous components**

Chemical name	CAS-No.	Concentration (%)
IMIDUREA	39236-46-9	>= 1 - < 5
sodium azide	26628-22-8	>= 0.1 - < 1

**SECTION 4. FIRST AID MEASURES**

- If inhaled : If breathed in, move person into fresh air.  
Consult a physician.
- In case of skin contact : Take off contaminated clothing and shoes immediately.  
Wash off with plenty of water.  
If symptoms persist, call a physician.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,  
for at least 15 minutes.  
Remove contact lenses.  
If eye irritation persists, consult a specialist.
- If swallowed : If swallowed, rinse mouth with water (only if the person is conscious).  
Call a physician immediately.
- Most important symptoms and effects, both acute and delayed : No information available.
- Notes to physician : Treat symptomatically.

**SECTION 5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Specific hazards during fire-fighting : No information available.

**Cell fixative**

Version 1.40      Revision Date: 2016/11/15      SDS Number: 100000010702      Date of last issue: 2016/10/27  
 Date of first issue: 2015/02/04

Hazardous combustion products : No hazardous combustion products are known

Further information : No information available.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : In the event of an accidental release the emergency response team must respond based on a risk assessment and use personal protective equipment as appropriate.

Environmental precautions : Should not be released into the environment.

Methods and materials for containment and cleaning up : Large spills: Dam up. Soak up with inert absorbent material. Keep in properly labelled containers.  
 Small spills: Gently cover the spill with an absorbent towel or pad.  
 Large spills + Small spills: Keep in suitable, closed containers for disposal. Treat recovered material as described in the section "Disposal considerations".

**SECTION 7. HANDLING AND STORAGE**

Advice on protection against fire and explosion : No data available

Advice on safe handling : To avoid thermal decomposition, do not overheat. Avoid inhalation, ingestion and contact with skin and eyes. Use personal protective equipment as required.

Conditions for safe storage : To maintain product quality, do not store in heat or direct sunlight. Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Keep locked up. Keep refrigerated.

Recommended storage temperature : 2 - 8 °C

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

Components	CAS-No.	Value type (Form of	Control parameters / Permissible	Basis
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**Cell fixative**

Version 1.40      Revision Date: 2016/11/15      SDS Number: 100000010702      Date of last issue: 2016/10/27  
 Date of first issue: 2015/02/04

		exposure)	concentration	
sodium azide	26628-22-8	C	0.1 ppm (HN3)	NIOSH REL
		C (Vapour)	0.11 ppm (Hydrazoic acid)	ACGIH
		C	0.1 ppm (Ammonia)	OSHA P0
		C	0.29 mg/m3 (Sodium azide)	ACGIH
		C	0.3 mg/m3 (Sodium azide)	NIOSH REL
		C	0.3 mg/m3 (Sodium azide)	OSHA P0
		C	0.1 ppm 0.3 mg/m3	CAL PEL

**Hazardous components without workplace control parameters**

Components	CAS-No.
IMIDUREA	39236-46-9

**Engineering measures** : All personal protective equipment should be based on a risk assessment. Consult a Environment Health Safety expert if necessary.

**Personal protective equipment**

**Respiratory protection** : Engineering controls should always be the primary method of controlling exposures.  
 If respiratory protective equipment is needed for certain activities, the type as well as the corresponding protection factor will depend upon the risk assessment and air concentrations, hazards, physical and warning properties of substances present.  
 No personal respiratory protective equipment normally required.

**Hand protection**

Remarks : Disposable gloves

**Eye protection** : No special precautions required.

**Skin and body protection** : No special precautions required.

**Protective measures** : The type of protective equipment must be selected based on the Environmental Health and Safety risk assessment. Consult a Environmental Health and Safety expert if necessary.

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

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Cell fixative**

Version	Revision Date:	SDS Number:	Date of last issue: 2016/10/27
1.40	2016/11/15	100000010702	Date of first issue: 2015/02/04

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Appearance	: liquid
Colour	: clear
Odour	: odourless
pH	: 7.5
Solubility(ies)	
Water solubility	: soluble

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**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	: None reasonably foreseeable.
Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous reactions	: No dangerous reaction known under conditions of normal use.
Conditions to avoid	: To avoid thermal decomposition, do not overheat.
Incompatible materials	: Strong acids and strong bases Reducing agents Oxidizing agents
Hazardous decomposition products	: None known.

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**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity****Product:**

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

Acute oral toxicity	: LD50 (Rat): 11,300 mg/kg
Acute inhalation toxicity	: LC50 (Rat): > 5.5 mg/l Exposure time: 1 h
Acute dermal toxicity	: LD50 (Rabbit): > 5,000 mg/kg

**sodium azide**

Acute oral toxicity	: LD50 (Rat): 27 mg/kg
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**Skin corrosion/irritation****Components:****IMIDUREA**

Result: No skin irritation

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

Result: No eye irritation

**Respiratory or skin sensitisation****Components:****IMIDUREA**

Method: Maximisation Test

Result: May cause sensitisation by skin contact.

Method: Local Lymph Node Assay (LLNA) in mice

Result: May cause sensitisation by skin contact.

**Germ cell mutagenicity****Components:****IMIDUREA**

Genotoxicity in vitro : Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Result: negative  
GLP: yes

: Test Type: Chromosome aberration test in vitro  
Metabolic activation: with and without metabolic activation  
Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse  
Application Route: Oral  
Result: negative

Germ cell mutagenicity - Assessment : No information available.

**Carcinogenicity****Components:****IMIDUREA**

Carcinogenicity - Assessment : No information available.

**IARC**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed

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human carcinogen by IARC.

**OSHA**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**Reproductive toxicity****Components:****IMIDUREA**

Teratogenicity - Assessment : No information available.

**STOT - single exposure**

No data available

**STOT - repeated exposure**

No data available

**Repeated dose toxicity****Components:****IMIDUREA**

Species: Rat

NOAEL: 200 mg/kg

LOAEL: 500 mg/kg

Application Route: Oral

Species: Rabbit

NOAEL: 200 mg/kg

Application Route: Dermal

**Aspiration toxicity**

No data available

---

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Components:****IMIDUREA**

Toxicity to fish : Remarks: No data available

**sodium azide**

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.7 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia pulex (Water flea)): 4.2 mg/l

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aquatic invertebrates	Exposure time: 96 h
Toxicity to algae	: IC50: 272 mg/l
Toxicity to bacteria	: EC50 (Photobacterium phosphoreum): 38.5 mg/l

**Persistence and degradability****Components:****IMIDUREA**

Biodegradability : Remarks: No data available

**Bioaccumulative potential****Components:****IMIDUREA**

Bioaccumulation : Remarks: No data available

**Mobility in soil****Components:****IMIDUREA**

Distribution among environmental compartments : Remarks: No data available

**Other adverse effects****Product:**Ozone-Depletion Potential : 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:****IMIDUREA**

Results of PBT and vPvB assessment : No information available.

Additional ecological information : No data available

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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues : In accordance with National, Federal, State and Local regulations.



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Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

**SECTION 14. TRANSPORT INFORMATION**
**International Regulations**
**UNRTDG**

Not regulated as a dangerous good

**IATA-DGR**

Not regulated as a dangerous good

**IMDG-Code**

Not regulated as a dangerous good

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

Not applicable for product as supplied.

**National Regulations**
**49 CFR**

Not regulated as a dangerous good

**SECTION 15. REGULATORY INFORMATION**
**Clean Air Act**

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 hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (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 toxic pollutants listed under the U.S. Clean Water Act Section 307

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

DINATRIUMMONOHD	7558-79-4	0.12 %
ROGEENFOSFAAT		
SODIUM PHOSPHATE	7558-79-4	0.0175 %
DIBASIC		

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

DINATRIUMMONOHD	7558-79-4	0.12 %
ROGEENFOSFAAT		
SODIUM PHOSPHATE	7558-79-4	0.0175 %
DIBASIC		

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**Massachusetts Right To Know**

sodium azide      26628-22-8      0.1 - 1 %

**Pennsylvania Right To Know**

water      7732-18-5      90 - 100 %  
DINATRIUMMONOHYDROGEENFOSFAAT      7558-79-4      0.1 - 1 %  
sodium azide      26628-22-8      0.1 - 1 %  
SODIUM PHOSPHATE DIBASIC      7558-79-4      0 - 0.1 %

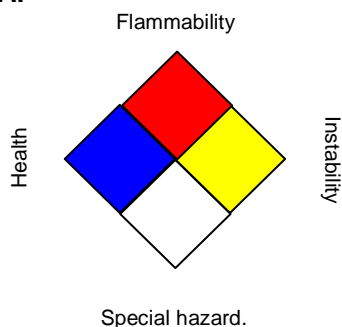
**New Jersey Right To Know**

water      7732-18-5      90 - 100 %  
IMIDUREA      39236-46-9      1 - 5 %  
Sodium chloride (NaCl)      7647-14-5      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.

**Other regulations** : Restricted to professional users.

**SECTION 16. OTHER INFORMATION**
**Further information**
**NFPA:**

**HMIS III:**

<b>HEALTH</b>	
<b>FLAMMABILITY</b>	
<b>PHYSICAL HAZARD</b>	

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

Revision Date : 2016/11/15

**Date and Number Formats**

This document uses the following notation for printing dates and numbers:

**Date:** Dec 31th, 2012 as 2012/12/31

**Numbers:** 123456,78 as 123,456.78



## Cell fixative

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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.

US / EN

Version 1.1      Revision Date: 2016/11/22      SDS Number: 100000013033      Date of last issue: 2016/11/15  
Date of first issue: 2016/11/15

## SECTION 1. IDENTIFICATION

Substance name : Staining Reagent

### Manufacturer or supplier's details

Company name of supplier : Janssen Pharmaceutica NV

Address : Turnhoutseweg 30  
Beerse 2340  
Belgium

Telephone : +3214602111

Telefax : +3214602841

E-mail address Responsible/issuing person : SDSJanssen@its.jnj.com

Emergency telephone number : CHEMTREC US: 1-800-424-9300  
CHEMTREC International: +1 703-527-3887

### Recommended use of the chemical and restrictions on use

Recommended use : Assay reagent

## SECTION 2. HAZARDS IDENTIFICATION

### GHS Classification

Not a hazardous substance or mixture.  
Not a hazardous substance or mixture.

### GHS label elements

Not a hazardous substance or mixture.  
Not a hazardous substance or mixture.

### Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Liquid

### Hazardous components

Chemical name	CAS-No.	Concentration (%)
sodium azide	26628-22-8	>= 0.1 - < 1

## SECTION 4. FIRST AID MEASURES

If inhaled : If breathed in, move person into fresh air.

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Consult a physician.

In case of skin contact : Take off contaminated clothing and shoes immediately.  
Wash off with plenty of water.  
If symptoms persist, call a physician.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,  
for at least 5 minutes.  
Remove contact lenses.  
If eye irritation persists, consult a specialist.

If swallowed : If swallowed, rinse mouth with water (only if the person is con-  
scious).  
Call a physician immediately.

Most important symptoms and effects, both acute and delayed : No information available.

Notes to physician : Treat symptomatically.

## SECTION 5. FIREFIGHTING MEASURES

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

Specific hazards during fire-  
fighting : No information available.

Hazardous combustion prod-  
ucts : No hazardous combustion products are known

Further information : No information available.

Special protective equipment  
for firefighters : In the event of fire, wear self-contained breathing apparatus.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec-  
tive equipment and emer-  
gency procedures : In the event of an accidental release the emergency response  
team must respond based on a risk assessment and use per-  
sonal protective equipment as appropriate.

Environmental precautions : Should not be released into the environment.

Methods and materials for  
containment and cleaning up : Large spills: Dam up. Soak up with inert absorbent material.  
Keep in properly labelled containers.  
Small spills: Gently cover the spill with an absorbent towel or  
pad.  
Large spills + Small spills: Keep in suitable, closed containers  
for disposal. Treat recovered material as described in the sec-  
tion "Disposal considerations".

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## SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : No data available
- Advice on safe handling : To avoid thermal decomposition, do not overheat. Avoid inhalation, ingestion and contact with skin and eyes. Use personal protective equipment as required.
- Conditions for safe storage : To maintain product quality, do not store in heat or direct sunlight. Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Keep locked up. Keep refrigerated.
- Recommended storage temperature : 2 - 8 °C

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
sodium azide	26628-22-8	C	0.1 ppm (HN3)	NIOSH REL
		C (Vapour)	0.11 ppm (Hydrazoic acid)	ACGIH
		C	0.1 ppm (Ammonia)	OSHA P0
		C	0.29 mg/m <sup>3</sup> (Sodium azide)	ACGIH
		C	0.3 mg/m <sup>3</sup> (Sodium azide)	NIOSH REL
		C	0.3 mg/m <sup>3</sup> (Sodium azide)	OSHA P0
		C	0.1 ppm 0.3 mg/m <sup>3</sup>	CAL PEL

**Engineering measures** : All personal protective equipment should be based on a risk assessment. Consult a Environment Health Safety expert if necessary.

### Personal protective equipment

Respiratory protection : Engineering controls should always be the primary method of controlling exposures.

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If respiratory protective equipment is needed for certain activities, the type as well as the corresponding protection factor will depend upon the risk assessment and air concentrations, hazards, physical and warning properties of substances present.

No personal respiratory protective equipment normally required.

Eye protection	:	No special precautions required.
Skin and body protection	:	No special precautions required.
Protective measures	:	The type of protective equipment must be selected based on the Environmental Health and Safety risk assessment. Consult a Environmental Health and Safety expert if necessary.
Hygiene measures	:	Handle in accordance with good industrial hygiene and safety practice.

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	purple
Odour	:	odourless
pH	:	7.5
Solubility(ies) Water solubility	:	soluble

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## SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	None reasonably foreseeable.
Chemical stability	:	Stable under recommended storage conditions.
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use.
Conditions to avoid	:	To avoid thermal decomposition, do not overheat.
Incompatible materials	:	Strong acids and strong bases Reducing agents Oxidizing agents
Hazardous decomposition products	:	None known.

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**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity****Product:**

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

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

**Components:****sodium azide**

Acute oral toxicity : LD50 (Rat): 27 mg/kg

**Skin corrosion/irritation**

No data available

**Serious eye damage/eye irritation**

No data available

**Respiratory or skin sensitisation**

No data available

**Germ cell mutagenicity**

No data available

**Carcinogenicity****IARC**

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.

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.

**OSHA**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.



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**Reproductive toxicity**

No data available

**STOT - single exposure**

No data available

**STOT - repeated exposure**

No data available

**Repeated dose toxicity**

No data available

**Aspiration toxicity**

No data available

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Components:****sodium azide**Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.7 mg/l  
Exposure time: 96 hToxicity to daphnia and other : EC50 (Daphnia pulex (Water flea)): 4.2 mg/l  
aquatic invertebrates Exposure time: 96 h

Toxicity to algae : IC50: 272 mg/l

Toxicity to bacteria : EC50 (Photobacterium phosphoreum): 38.5 mg/l

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects****Product:**Ozone-Depletion Potential : 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).

Regulation: 40 CFR Protection of Environment; Part 82

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Protection of Stratospheric Ozone - CAA Section 602 Class I Substances

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

### SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

- Waste from residues : In accordance with National, Federal, State and Local regulations.
- Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

### SECTION 14. TRANSPORT INFORMATION

#### International Regulations

##### UNRTDG

Not regulated as a dangerous good

##### IATA-DGR

Not regulated as a dangerous good

##### IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

#### National Regulations

##### 49 CFR

Not regulated as a dangerous good

### SECTION 15. REGULATORY INFORMATION

#### Clean Air Act

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 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 hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

# SAFETY DATA SHEET



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Date of first issue: 2016/11/15

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (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 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).  
This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).  
This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

### Clean Water Act

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

DINATRIUMMONOHYD	7558-79-4	0.115 %
ROGEENFOSFAAT		

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

DINATRIUMMONOHYD	7558-79-4	0.115 %
ROGEENFOSFAAT		

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

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

DINATRIUMMONOHYD	7558-79-4	0.12 %
ROGEENFOSFAAT		

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

DINATRIUMMONOHYD	7558-79-4	0.12 %
ROGEENFOSFAAT		

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

### Massachusetts Right To Know

sodium azide	26628-22-8	0.1 - 1 %
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sodium azide	26628-22-8	0.1 - 1 %
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### Pennsylvania Right To Know

water	7732-18-5	90 - 100 %
DINATRIUMMONOHYDROGEENFOSFAAT	7558-79-4	0.1 - 1 %
sodium azide	26628-22-8	0.1 - 1 %

water	7732-18-5	90 - 100 %
DINATRIUMMONOHYDROGEENFOSFAAT	7558-79-4	0.1 - 1 %
sodium azide	26628-22-8	0.1 - 1 %

### New Jersey Right To Know

water	7732-18-5	90 - 100 %
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water	7732-18-5	90 - 100 %
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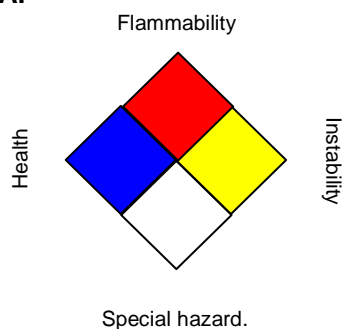
**California Prop 65**                      This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.  
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**Other regulations**                      : Restricted to professional users.

**SECTION 16. OTHER INFORMATION**

**Further information**

**NFPA:**



**HMIS III:**

<b>HEALTH</b>	
<b>FLAMMABILITY</b>	
<b>PHYSICAL HAZARD</b>	

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

Revision Date                      : 2016/11/22

**Date and Number Formats**

This document uses the following notation for printing dates and numbers:

<b>Date:</b>	Dec 31th, 2012	as	2012/12/31
<b>Numbers:</b>	123456,78	as	123,456.78

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.

US / EN

**Anti-CD-146 ferrofluid**

Version 1.37      Revision Date: 2016/11/22      SDS Number: 100000011116      Date of last issue: 2016/11/15  
Date of first issue: 2015/02/04

**SECTION 1. IDENTIFICATION**

Product name : Anti-CD-146 ferrofluid  
Substance name : Anti-CD-146 ferrofluid  
7035

**Manufacturer or supplier's details**

Company name of supplier : Janssen Diagnostics, LLC

Address : 700 US Highway Route 202  
South Raritan, NJ 08869  
US

Telephone : (877) 837-4339  
E-mail address Responsible/issuing person : SDSJanssen@its.jnj.com

**Emergency telephone number** : **CHEMTREC US: 1-800-424-9300**  
**CHEMTREC International: +1 703-527-3887**

**Recommended use of the chemical and restrictions on use**

Recommended use : Assay reagent

**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Not a hazardous substance or mixture.

**GHS label elements**

Not a hazardous substance or mixture.

**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

Chemical nature : Liquid

**Hazardous components**

Chemical name	CAS-No.	Concentration (%)
Anti-CD146 mouse mAb conjugated to Ferrofluid	Not Assigned	< 0.1

**SECTION 4. FIRST AID MEASURES**

If inhaled : If breathed in, move person into fresh air.  
Consult a physician.

**Anti-CD-146 ferrofluid**

Version	Revision Date:	SDS Number:	Date of last issue: 2016/11/15
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- In case of skin contact : Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water. If symptoms persist, call a physician. Wash contaminated clothing before re-use.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 5 minutes. Remove contact lenses. If eye irritation persists, consult a specialist.
- If swallowed : If swallowed, rinse mouth with water (only if the person is conscious). Call a physician immediately.
- Most important symptoms and effects, both acute and delayed : No information available.
- Notes to physician : Treat symptomatically.
- 

**SECTION 5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Specific hazards during fire-fighting : No information available.
- Further information : No information available.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
- 

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures : In the event of an accidental release the emergency response team must respond based on a risk assessment and use personal protective equipment as appropriate.
- Environmental precautions : Should not be released into the environment.
- Methods and materials for containment and cleaning up : Large spills: Dam up. Soak up with inert absorbent material. Keep in properly labelled containers. Small spills: Gently cover the spill with an absorbent towel or pad. Large spills + Small spills: Keep in suitable, closed containers for disposal. Treat recovered material as described in the section "Disposal considerations".
- 

**SECTION 7. HANDLING AND STORAGE**

**Anti-CD-146 ferrofluid**

Version 1.37      Revision Date: 2016/11/22      SDS Number: 100000011116      Date of last issue: 2016/11/15  
 Date of first issue: 2015/02/04

- Advice on protection against fire and explosion : No data available
- Advice on safe handling : To avoid thermal decomposition, do not overheat. Avoid inhalation, ingestion and contact with skin and eyes. Use personal protective equipment as required.
- Conditions for safe storage : To maintain product quality, do not store in heat or direct sunlight. Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Keep locked up. Keep refrigerated.
- Recommended storage temperature : 2 - 8 °C

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

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Anti-CD146 mouse mAb conjugated to Ferrofluid	Not Assigned	PBOEL-HHC	2	J&J OEL/PBOEL HHC
Further information: J&J has a hazard banding notation: PBOEL HHC. This substance is classified by J&J as being PBOEL HHC 2. This means that the OEL is estimated to be from 20 to 100 µg/m <sup>3</sup>				

- Engineering measures** : All personal protective equipment should be based on a risk assessment. Consult a Environment Health Safety expert if necessary.

**Personal protective equipment**

- Respiratory protection : Engineering controls should always be the primary method of controlling exposures. If respiratory protective equipment is needed for certain activities, the type as well as the corresponding protection factor will depend upon the risk assessment and air concentrations, hazards, physical and warning properties of substances present. No personal respiratory protective equipment normally required.
- Hand protection
- Remarks : Disposable gloves
- Eye protection : No special precautions required.

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Skin and body protection : No special precautions required.

Protective measures : The type of protective equipment must be selected based on the Environmental Health and Safety risk assessment. Consult a Environmental Health and Safety expert if necessary.

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

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid

Colour : brown

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**SECTION 10. STABILITY AND REACTIVITY**

Reactivity : None reasonably foreseeable.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : No dangerous reaction known under conditions of normal use.

Conditions to avoid : To avoid thermal decomposition, do not overheat.

Incompatible materials : None known.

Hazardous decomposition products : None known.

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

No data available

**Skin corrosion/irritation**

No data available

**Serious eye damage/eye irritation**

No data available

**Respiratory or skin sensitisation**

No data available

**Germ cell mutagenicity**

No data available

**Carcinogenicity****IARC**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed



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human carcinogen by IARC.

**OSHA**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**Reproductive toxicity**

No data available

**STOT - single exposure**

No data available

**STOT - repeated exposure**

No data available

**Repeated dose toxicity**

No data available

**Aspiration toxicity**

No data available

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity**

No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects****Product:**

Ozone-Depletion Potential : 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).

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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

- Waste from residues : In accordance with National, Federal, State and Local regulations.
- Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

**SECTION 14. TRANSPORT INFORMATION****International Regulations****UNRTDG**

Not regulated as a dangerous good

**IATA-DGR**

Not regulated as a dangerous good

**IMDG-Code**

Not regulated as a dangerous good

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

Not applicable for product as supplied.

**National Regulations****49 CFR**

Not regulated as a dangerous good

**SECTION 15. REGULATORY INFORMATION****Clean Air Act**

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 hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

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

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

**Clean Water Act**

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

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

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

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**Massachusetts Right To Know**

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

**Pennsylvania Right To Know**

water      7732-18-5      90 - 100 %

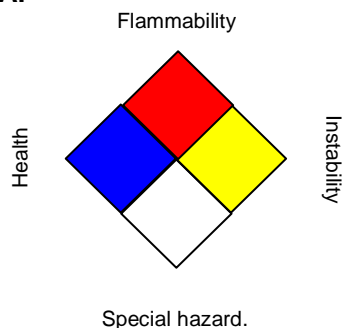
**New Jersey Right To Know**

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.

**Other regulations** : Restricted to professional users.

**SECTION 16. OTHER INFORMATION**
**Further information**
**NFPA:**

**HMIS III:**

<b>HEALTH</b>	
<b>FLAMMABILITY</b>	
<b>PHYSICAL HAZARD</b>	

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

Revision Date : 2016/11/22

**Date and Number Formats**

This document uses the following notation for printing dates and numbers:

**Date:** Dec 31th, 2012 as 2012/12/31

**Numbers:** 123456,78 as 123,456.78

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

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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.

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