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SAFETY DATA SHEETS

Catalog Number:	Kit Name:
141, 141E, 141E-20	OSOM® Strep A Test

SDS Number:	Component Name:
998	Strep A REAG 1
1001	Strep A REAG 2
1003	Strep A CONTROL +
1009	Strep A CONTROL -

Note: The page numbers on the 4 individual SDSs for this kit are specific to each document. There are a total of 21 pages including this cover sheet.

OSOM® Strep A Test Stick is an "article" and does not require a SDS.

4. FIRST AID MEASURES

Inhalation	If inhaled, move from exposure area to fresh air. Seek medical attention if breathing becomes difficult or if cough or other symptoms develop.
Eye contact	Immediately flush eyes with plenty of tepid water for 15 minutes while separating eyelids with fingers. Remove contact lenses if worn. Obtain immediate medical attention.
Skin contact	In case of contact, immediately flush skin with cool water and remove contaminated clothing. Obtain medical attention if needed or if irritation or other symptoms develop.
Ingestion	In case of ingestion, contact a poison control center or physician for instructions.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Use extinguishing media suitable for surrounding fire, such as carbon dioxide, chemical foam, dry chemical or water spray.
Extinguishing media which must not be used for safety reasons	Unknown.
Specific hazards	Sodium nitrite is an oxidizing agent. It is not flammable itself, but it can make combustible materials more flammable if it is absorbed and dries.
Hazardous combustion products	When heated to decomposition, may produce carbon monoxide (CO), carbon dioxide (CO ₂), nitrogen oxides (NO _x) and sulphur oxides (SO _x).
Special protective equipment for fire-fighters	Firefighters should wear NIOSH-approved or equivalent Self-Contained Breathing Apparatus and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear Personal Protective Equipment (PPE) as indicated in Section 8. Ensure adequate ventilation. Avoid physical contact with material and avoid aerosol inhalation. Wash hands thoroughly after handling.
Environmental precautions	Do not let product enter drains.
Methods for cleaning up	Absorb spill with inert material/sorbent. Decontaminate the spill site following standard procedures. Dispose of materials in accordance with all applicable federal, state, local and provincial environmental regulations, per Section 13.

7. HANDLING AND STORAGE

Handling	Follow good laboratory hygiene practices. See Section 8, Engineering Controls. Mixing Strep A Reagents 1 and 2 yields nitrous acid, which may immediately decompose into toxic nitrous gas, a short-term reaction by-product. Minimize contact and contamination of personal clothing and skin. Avoid vapor or aerosol inhalation. Wash hands thoroughly after handling.
Storage	Store at 15 to 30°C (59 to 86°F). Keep container tightly closed in a dry and well-ventilated place. Do not store with incompatible substances; see Section 10.
Specific uses	For in vitro diagnostic use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit values	There are no EU or country-specific occupational exposure limits currently established for this preparation or its components.
Exposure controls	Minimize potential for aerosolization. Handle within a containment system or with local exhaust ventilation. Facilities storing or using this material should be equipped with an eyewash fountain and a safety shower.
Personal protective equipment	
Respiratory protection	A respirator is not expected to be required under normal conditions of use.
Hand protection	Wear chemical resistant protective gloves.
Eye protection	Wear appropriate protective chemical safety goggles.
Skin and body protection	Wear appropriate protective clothing, such as a lab coat or other long-sleeved garment over clothing to minimize contact and contamination of clothing.
General	Follow company-specific safety procedures.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid.
Color	Clear, pink
Odor	Not available
Chemical family	Alkaline solution
pH	9,0 (approximate)
Melting point	Not applicable
Freezing point	Not available

Boiling point	Not available
Flash point	Not available
Flammability	Not available.
Flammability limits in air, upper, % by volume	Not available
Flammability limits in air, lower, % by volume	Not available
Auto-ignition temperature	Not applicable
Oxidising properties	Not available
Vapor pressure	Not available
Specific gravity	1,08
Relative density	1,08 g/cm ³
Partition coefficient (n-octanol/water)	Not available
Solubility (water)	Water-soluble
Viscosity	Not available
Vapor density	Not available

10. STABILITY AND REACTIVITY

Reactivity	Mixing Strep A Reagents 1 and 2 yields nitrous acid, which may immediately decompose into toxic nitrous gas, a short-term reaction by-product.
Stability	Stable under ordinary conditions of use and storage. See Section 7.
Possibility of hazardous reactions	Hazardous polymerization will not occur.
Conditions to avoid	Solution is oxidized by air. Avoid high temperatures.
Materials to avoid	Avoid amines, ammonium salts, cyanides and reducing agents. Heat and acids will result in release of nitrous gas. Under certain conditions, nitrite compounds may react with secondary and tertiary amines to form nitrosamines, which are known carcinogens in animals.
Hazardous decomposition products	Thermal decomposition may lead to release of irritating gases and vapors.

11. TOXICOLOGICAL INFORMATION

Routes of exposure	Occupational exposure routes may include inhalation, skin absorption, and eye and skin contact.
Acute toxicity	Sodium nitrite exposure may result in a drop in blood pressure, headache, vertigo, palpitations, visual disturbances, methemoglobinemia, dyspnea and respiratory depression.

Toxicological data

Components	Test Results
Sodium nitrite (7632-00-0)	Acute Inhalation LC50 Rat: 5,5 mg/l 4 Hours Acute Oral LD50 Rat: 85 mg/kg

Skin corrosion/irritation	No data available.
Chronic toxicity	No data available.
Carcinogenicity	No data available.
Mutagenicity	No data available.
Reproductive effects	No data available.
Teratogenicity	No data available.
Sensitization	No data available.

12. ECOLOGICAL INFORMATION

Ecotoxicological data

Components	Test Results
Sodium nitrite (7632-00-0)	EC50 Greasyback shrimp (<i>Metapenaeus ensis</i>): 16,14 - 26,61 mg/l 48 hours LC50 Channel catfish (<i>Ictalurus punctatus</i>): 0,048 mg/l 96 hours LC50 Rainbow trout, donaldson trout (<i>Oncorhynchus mykiss</i>): 0,19 - 0,24 mg/l 96 hours

Mobility in environmental media	No data available.
Persistence / degradability	No data available.
Bioaccumulation	No data available.

13. DISPOSAL CONSIDERATIONS

Disposal instructions Dispose of unused product, spilled material and waste in accordance with all applicable federal, state, local and provincial environmental and hazardous waste regulations.

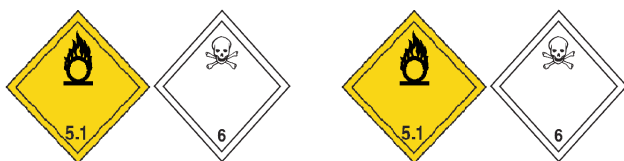
14. TRANSPORT INFORMATION

ADR

UN number UN1500
Proper shipping name SODIUM NITRITE SOLUTION
Hazard class 5.1 (6.1)

IATA

UN number UN1500
Proper shipping name SODIUM NITRITE SOLUTION
Hazard class 5.1 (6.1)



ADR

IATA

15. REGULATORY INFORMATION

International regulations In the European Union this product is regulated under the In Vitro Diagnostic Medical Devices Directive (98/79/EC).

EU CLP EC/1272/2008, Annex VI, Table 3.2: Concentrations (1)

Sodium nitrite (7632-00-0) T R25 >= 5

EU CLP EC/1272/2008, Annex VI, Table 3.2: Concentrations (2)

Sodium nitrite (7632-00-0) >= 1 Xn R22 < 5

EU CLP EC/1272/2008, Annex VI, Table 3.2: Labelling

Sodium nitrite (7632-00-0) O,T,N R8-R25-R50 S(1/2)-S45-S61

EU Directive 76/464/EEC - Grey List: Listed substance

Sodium nitrite (7632-00-0) Listed.

EU EINECS: Registration Status/EINECS number

Sodium nitrite (7632-00-0) Listed.

Germany Substances That Are Water-Endangering (WGK): WGK Identification Number/Classification/Source of Classification: Annex 2 c

Sodium nitrite (7632-00-0) Classification source is Annex 2. Water-endangering.

Switzerland Consolidated Inventory: Registration Status

Sodium nitrite (7632-00-0) Listed.

Switzerland Giftliste 1 (Substances): Identification Number/Toxic Category

Sodium nitrite (7632-00-0) Switzerland Giftliste 1 (Substances): Identification Number/Toxic Category Toxicity category 2.

Labeling

Symbol(s)

T



Toxic

R-phrases(s) R25 Toxic if swallowed.

S-phrases(s) S24/25 Avoid contact with skin and eyes.
 S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S36/39 Wear suitable protective clothing and eye/face protection.
 S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

16. OTHER INFORMATION

List of relevant R phrases	R8 Contact with combustible material may cause fire. R25 Toxic if swallowed. R50 Very toxic to aquatic organisms.
Further information	This SDS has been prepared in accordance with the hazard criteria and content requirements of the UK Chemical Hazard Information and Packaging Regulations and the European Communities Hazardous Preparations and REACH Regulations. The Product name in Section 1 has been revised. The Transport information in Section 14 has been revised.
SDS Number	998
Version number	02
Issue date	04-02-2010
Revision date	04-02-2010
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5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Use extinguishing media suitable for surrounding fire, such as carbon dioxide, chemical foam, dry chemical or water spray.
Extinguishing media which must not be used for safety reasons	Unknown.
Specific hazards	Dilute aqueous solution not considered a fire hazard.
Hazardous combustion products	When heated to decomposition, may produce carbon dioxide (CO ₂) and carbon monoxide (CO).
Special protective equipment for fire-fighters	Firefighters should wear NIOSH-approved or equivalent Self-Contained Breathing Apparatus and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear Personal Protective Equipment (PPE) as indicated in Section 8. Ensure adequate ventilation. Avoid physical contact with material and avoid aerosol inhalation. Wash hands thoroughly after handling.
Environmental precautions	No special environmental precautions required.
Methods for cleaning up	Absorb spill with inert material/sorbent or appropriate neutralizing agent. Decontaminate the spill site following standard procedures. Dispose of materials in accordance with all applicable federal, state, local and provincial environmental regulations, per Section 13.

7. HANDLING AND STORAGE

Handling	Mixing Strep A Reagents 1 and 2 yields nitrous acid, which may immediately decompose into toxic nitrous gas, a short-term reaction by-product. Follow good laboratory hygiene practices. See Section 8, Engineering Controls. Avoid vapor or aerosol inhalation. Minimize contact and contamination of personal clothing and skin. Wash hands thoroughly after handling.
Storage	Store at 15 to 30°C (59 to 86°F). Keep container tightly closed. Do not store with incompatible substances; see Section 10.
Specific uses	For in vitro diagnostic use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

Belgium

Components	Type	Value
Acetic acid (64-19-7)	STEL	38 mg/m ³ 15 ppm
	TWA	25 mg/m ³ 10 ppm

Denmark

Components	Type	Value
Acetic acid (64-19-7)	TLV	10 ppm 25 mg/m ³

France

Components	Type	Value
Acetic acid (64-19-7)	VLE	10 ppm 25 mg/m ³

Germany

Components	Type	Value
Acetic acid (64-19-7)	AGW	10 ppm 25 mg/m ³

Italy

Components	Type	Value
Acetic acid (64-19-7)	TWA	10 ppm 25 mg/m ³

Spain		
Components	Type	Value
Acetic acid (64-19-7)	STEL	37 mg/m3 15 ppm
	TWA	25 mg/m3 10 ppm
Sweden		
Components	Type	Value
Acetic acid (64-19-7)	STEL	25 mg/m3 10 ppm
	TWA	13 mg/m3 5 ppm
Switzerland		
Components	Type	Value
Acetic acid (64-19-7)	STEL	50 mg/m3 20 ppm
	TWA	25 mg/m3 10 ppm

Exposure controls Minimize potential for aerosolization. Handle within a containment system or with local exhaust ventilation. Facilities storing or using this preparation should be equipped with an eyewash fountain and a safety shower.

Personal protective equipment

Respiratory protection A respirator is not expected to be required under normal conditions of use.
Hand protection Wear chemical resistant protective gloves.
Eye protection Wear appropriate protective chemical safety goggles.
Skin and body protection Wear lab coat or other protective garments. Remove contaminated clothing promptly.
General Follow company-specific safety procedures.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state Liquid.
Color Clear, colorless
Odor Sour, pungent odor like vinegar
Chemical family Acidic solution
pH 2,6 (approximate)
Melting point Not applicable
Freezing point Not available
Boiling point Not available
Flash point Not available
Flammability Not available.
Flammability limits in air, upper, % by volume Not available
Flammability limits in air, lower, % by volume Not available
Auto-ignition temperature Not applicable
Oxidising properties Not available
Vapor pressure Not available
Specific gravity Not available
Relative density Not available
Partition coefficient (n-octanol/water) Not available
Solubility (water) Water-soluble
Viscosity Not available
Vapor density Not available

10. STABILITY AND REACTIVITY

Reactivity	Mixing Strep A Reagents 1 and 2 yields nitrous acid, which may immediately decompose into toxic nitrous gas, a short-term reaction by-product.
Stability	Stable under ordinary conditions of use and storage. See Section 7.
Possibility of hazardous reactions	Hazardous polymerization will not occur.
Conditions to avoid	None known.
Materials to avoid	Avoid strong oxidizing agents, most common metals (except aluminum), strong bases and amines.
Hazardous decomposition products	Thermal decomposition may lead to release of irritating gases and vapors.

11. TOXICOLOGICAL INFORMATION

Routes of exposure Occupational exposure routes may include inhalation, eye and skin contact.

Toxicological data

Components

Test Results

Acetic acid (64-19-7)

Acute Dermal LD50 Rabbit: 1060 mg/kg
Acute Inhalation LC50 Guinea pig: 5000 mg/l 1 Hours
Acute Oral LD50 Rat: 3530 mg/kg

Skin corrosion/irritation

Eye irritation

Acetic acid (64-19-7)

Eye irritation has been noted at a concentration below 10 ppm. Irritating

Acetic acid (64-19-7)

Irritating

Skin Irritation

Acetic acid (64-19-7)

Strongly Irritating

Chronic toxicity

Prolonged or repeated skin contact may cause dermatitis.

Carcinogenicity

No data available.

Mutagenicity

No data available.

Reproductive effects

No data available.

Teratogenicity

No data available.

Sensitization

No data available.

12. ECOLOGICAL INFORMATION

Ecotoxicological data

Components

Test Results

Acetic acid (64-19-7)

EC50 Water flea (Daphnia magna): 65 mg/l 48 hours
LC50 Bluegill (Lepomis macrochirus): 75 mg/l 96 hours

Mobility in environmental media

No data available.

Persistence / degradability

No data available.

Bioaccumulation

No data available.

13. DISPOSAL CONSIDERATIONS

Disposal instructions

Dispose of unused product, spilled material and waste in accordance with all applicable federal, state, local and provincial environmental and hazardous waste regulations.

14. TRANSPORT INFORMATION

ADR

Not regulated as hazardous goods.

IATA

Not regulated as hazardous goods.

15. REGULATORY INFORMATION

International regulations

In the European Union this product is regulated under the In Vitro Diagnostic Medical Devices Directive (98/79/EC).

EU CLP EC/1272/2008, Annex VI, Table 3.2: Concentrations (1)

Acetic acid (64-19-7) C R35 >= 90

EU CLP EC/1272/2008, Annex VI, Table 3.2: Concentrations (2)

Acetic acid (64-19-7) >= 25 C R34 < 90

EU CLP EC/1272/2008, Annex VI, Table 3.2: Concentrations (3)

Acetic acid (64-19-7) >= 10 Xi R36/38 < 25

EU CLP EC/1272/2008, Annex VI, Table 3.2: Labelling

Acetic acid (64-19-7) C R10-R35 S(1/2)-S23-S26-S45

EU EINECS: Registration Status/EINECS number

Acetic acid (64-19-7) Listed.

Germany Substances That Are Water-Endangering (WGK): WGK Identification Number/Classification/Source of Classification: Annex 2 c

Acetic acid (64-19-7) Classification source is Annex 2. Slightly water-endangering.

Switzerland Consolidated Inventory: Registration Status

Acetic acid (64-19-7) Listed.

Switzerland Giftliste 1 (Substances): Identification Number/Toxic Category

Acetic acid (64-19-7) Switzerland Giftliste 1 (Substances): Identification Number/Toxic Category Toxicity category 3.

Acetic acid (64-19-7) Switzerland Giftliste 1 (Substances): Identification Number/Toxic Category Toxicity category 4.

16. OTHER INFORMATION

List of relevant R phrasesR10 Flammable.
R35 Causes severe burns.**Further information**

This SDS has been prepared in accordance with the hazard criteria and content requirements of the UK Chemical Hazard Information and Packaging Regulations and the European Communities Hazardous Preparations and REACH Regulations.

The Product name in Section 1 has been revised.
The Transport information in Section 14 has been revised.**SDS Number**

1001

Version number

02

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Revision date

04-02-2010

Disclaimer

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Eye contact	Flush eyes with plenty of tepid water for 15 minutes while separating eyelids with fingers. Remove contact lenses if worn. Obtain medical attention if needed or if symptoms, such as redness or irritation persist.
Skin contact	In case of contact, flush skin with copious amounts of cool water and remove contaminated clothing. Obtain medical attention if needed or if irritation or other symptoms develop.
Ingestion	In case of ingestion, contact a poison control center or physician for instructions.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Use extinguishing media suitable for surrounding fire, such as carbon dioxide, chemical foam, dry chemical or water spray.
Extinguishing media which must not be used for safety reasons	Unknown.
Specific hazards	Dilute aqueous solution not considered a fire hazard.
Hazardous combustion products	When heated to decomposition, may produce hydrazoic acid fumes.
Special protective equipment for fire-fighters	Firefighters should wear NIOSH-approved or equivalent Self-Contained Breathing Apparatus and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear Personal Protective Equipment (PPE) as indicated in Section 8. Avoid physical contact with material and avoid aerosol inhalation. Wash hands thoroughly after handling.
Environmental precautions	This preparation contains a small amount of sodium azide which can react with copper, lead, brass or solder in plumbing systems and form potentially explosive metal azides. Follow proper disposal procedures.
Methods for cleaning up	Absorb spill with inert material/sorbent. Decontaminate the spill site following standard procedures. Dispose of materials in accordance with all applicable federal, state, local and provincial environmental regulations, per Section 13.

7. HANDLING AND STORAGE

Handling	Follow good laboratory hygiene practices. See Section 8, Engineering Controls. Minimize contact and contamination of personal clothing and skin. Wash hands thoroughly after handling.
Storage	Store at 15 to 30°C (59 to 86°F). Do not store with incompatible substances; see Section 10.
Specific uses	For in vitro diagnostic use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

Belgium

Components	Type	Value
Sodium azide (26628-22-8)	STEL	0.3 mg/m ³
	TWA	0.1 mg/m ³

Denmark

Components	Type	Value
Sodium azide (26628-22-8)	TLV	0.1 mg/m ³

France

Components	Type	Value
Sodium azide (26628-22-8)	VLE	0.3 mg/m ³
	VME	0.1 mg/m ³

Germany

Components	Type	Value
Sodium azide (26628-22-8)	AGW	0.2 mg/m ³

Italy

Components	Type	Value
Sodium azide (26628-22-8)	STEL	0.3 mg/m ³
	TWA	0.1 mg/m ³

Netherlands

Components	Type	Value
Sodium azide (26628-22-8)	STEL	0.3 mg/m ³
	TWA	0.1 mg/m ³

Spain

Components	Type	Value
Sodium azide (26628-22-8)	STEL	0.3 mg/m ³
	TWA	0.1 mg/m ³

Sweden

Components	Type	Value
Sodium azide (26628-22-8)	STEL	0.3 mg/m ³
	TWA	0.1 mg/m ³

Switzerland

Components	Type	Value	Form
Sodium azide (26628-22-8)	STEL	0.4 mg/m ³	Inhalable dust.
	TWA	0.2 mg/m ³	Inhalable dust.

United Kingdom

Components	Type	Value
Sodium azide (26628-22-8)	STEL	0.3 mg/m ³
	TWA	0.1 mg/m ³

Exposure controls

This preparation is aqueous and non-volatile and is not expected to require special ventilation measures. Facilities storing or using this preparation should be equipped with an eyewash fountain and a safety shower.

Personal protective equipment**Respiratory protection**

A respirator is not expected to be required under normal conditions of use.

Hand protection

Wear chemical resistant protective gloves.

Eye protection

Wear appropriate protective chemical safety glasses or goggles.

Skin and body protection

Wear lab coat or other protective garments. Remove contaminated clothing promptly.

General

Follow company-specific safety procedures.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid.
Color	Clear, colorless
Odor	Not available
pH	7,2 (approximate)
Melting point	Not applicable
Freezing point	Not available
Boiling point	Not available
Flash point	Not available
Flammability	Not available.
Flammability limits in air, upper, % by volume	Not available
Flammability limits in air, lower, % by volume	Not available
Auto-ignition temperature	Not available
Oxidising properties	Not available
Vapor pressure	Not available
Specific gravity	Not available
Relative density	Not available
Partition coefficient (n-octanol/water)	Not available
Solubility (water)	Water-soluble

Viscosity	Not available
Vapor density	Not available

10. STABILITY AND REACTIVITY

Reactivity	Unknown.
Stability	Stable under ordinary conditions of use and storage. See Section 7.
Possibility of hazardous reactions	Hazardous polymerization will not occur.
Conditions to avoid	None known.
Materials to avoid	

Incompatibilities (NIOSH)

Sodium azide (26628-22-8)

Acids, metals, water [Note: Over a period of time, sodium azide may react with copper, lead, brass, or solder in plumbing systems to form an accumulation of the HIGHLY EXPLOSIVE compounds of lead azide & copper azide.]

Hazardous decomposition products	None expected under normal conditions of use.
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11. TOXICOLOGICAL INFORMATION

Routes of exposure	Occupational exposure routes may include eye contact, skin contact and skin absorption.
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Toxicological data

Components

Test Results

Sodium azide (26628-22-8)

Acute Dermal LD50 Rabbit: 20 mg/kg

Acute Oral LD50 Mouse: 27 mg/kg

Acute Oral LD50 Rat: 27 mg/kg

Local effects	No data available.
Chronic toxicity	No data available.
Carcinogenicity	No data available.
Mutagenicity	No data available.
Reproductive effects	No data available.
Teratogenicity	No data available.
Sensitization	No data available.

12. ECOLOGICAL INFORMATION

Ecotoxicological data

Components

Test Results

Sodium azide (26628-22-8)

EC50 Water flea (Daphnia pulex): 2,8 - 6,2 mg/l 48 hours

LC50 Bluegill (Lepomis macrochirus): 0,68 mg/l 96 hours

Mobility in environmental media	No data available.
Persistence / degradability	No data available.
Bioaccumulation	No data available.

13. DISPOSAL CONSIDERATIONS

Disposal instructions	This preparation contains a small amount of sodium azide which can react with copper, lead, brass or solder in plumbing systems and form potentially explosive metal azides. If preparation enters drain, flush with a large volume of water to prevent azide build-up. Dispose of unused product, spilled material and waste in accordance with all applicable federal, state, local and provincial environmental and hazardous waste regulations.
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14. TRANSPORT INFORMATION

ADR

Not regulated as hazardous goods.

IATA

Not regulated as hazardous goods.

15. REGULATORY INFORMATION

International regulations In the European Union this product is regulated under the In Vitro Diagnostic Medical Devices Directive (98/79/EC).

EU CLP EC/1272/2008, Annex VI, Table 3.2: Labelling

Sodium azide (26628-22-8) T+,N R28-R32-R50/53 S(1/2)-S28-S45-S60-S61

EU EINECS: Registration Status/EINECS number

Sodium azide (26628-22-8) Listed.

Germany Substances That Are Water-Endangering (WGK): WGK Identification Number/Classification/Source of Classification: Annex 2 c

Sodium azide (26628-22-8) Classification source is Annex 2. Water-endangering.

Switzerland Consolidated Inventory: Registration Status

Sodium azide (26628-22-8) Listed.

Switzerland Giftliste 1 (Substances): Identification Number/Toxic Category

Sodium azide (26628-22-8) Switzerland Giftliste 1 (Substances): Identification Number/Toxic Category Toxicity category 2.

Labeling

Symbol(s)



Harmful

R-phrases(s)

R22 Harmful if swallowed.
R32 Contact with acids liberates very toxic gas.

S-phrases(s)

S35 This material and its container must be disposed of in a safe way.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

16. OTHER INFORMATION

List of relevant R phrases

R22 Harmful if swallowed.
R25 Toxic if swallowed.
R27 Also very toxic in contact with skin.
R32 Contact with acids liberates very toxic gas.
R50 Very toxic to aquatic organisms.
R53 May cause long-term adverse effects in the aquatic environment.

Further information

This SDS has been prepared in accordance with the hazard criteria and content requirements of the UK Chemical Hazard Information and Packaging Regulations and the European Communities Hazardous Preparations and REACH Regulations.

The Product name in Section 1 has been revised.
The Transport information in Section 14 has been revised.

SDS Number

1003

Version number

02

Issue date

04-02-2010

Revision date

04-02-2010

Disclaimer

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Eye contact	Flush eyes with plenty of tepid water for 15 minutes while separating eyelids with fingers. Remove contact lenses if worn. Obtain medical attention if needed or if symptoms, such as redness or irritation persist.
Skin contact	In case of contact, flush skin with copious amounts of cool water and remove contaminated clothing. Obtain medical attention if needed or if irritation or other symptoms develop.
Ingestion	In case of ingestion, contact a poison control center or physician for instructions.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Use extinguishing media suitable for surrounding fire, such as carbon dioxide, chemical foam, dry chemical or water spray.
Extinguishing media which must not be used for safety reasons	Unknown.
Specific hazards	Dilute aqueous solution not considered a fire hazard.
Hazardous combustion products	When heated to decomposition, may produce hydrazoic acid fumes.
Special protective equipment for fire-fighters	Firefighters should wear NIOSH-approved or equivalent Self-Contained Breathing Apparatus and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear Personal Protective Equipment (PPE) as indicated in Section 8. Avoid physical contact with material and avoid aerosol inhalation. Wash hands thoroughly after handling.
Environmental precautions	This preparation contains a small amount of sodium azide which can react with copper, lead, brass or solder in plumbing systems and form potentially explosive metal azides. Follow proper disposal procedures.
Methods for cleaning up	Absorb spill with inert material/sorbent. Decontaminate the spill site following standard procedures. Dispose of materials in accordance with all applicable federal, state, local and provincial environmental regulations, per Section 13.

7. HANDLING AND STORAGE

Handling	Follow good laboratory hygiene practices. See Section 8, Engineering Controls. Minimize contact and contamination of personal clothing and skin. Wash hands thoroughly after handling.
Storage	Store at 15 to 30°C (59 to 86°F). Do not store with incompatible substances; see Section 10.
Specific uses	For in vitro diagnostic use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

Belgium

Components	Type	Value
Sodium azide (26628-22-8)	STEL	0.3 mg/m ³
	TWA	0.1 mg/m ³

Denmark

Components	Type	Value
Sodium azide (26628-22-8)	TLV	0.1 mg/m ³

France

Components	Type	Value
Sodium azide (26628-22-8)	VLE	0.3 mg/m ³
	VME	0.1 mg/m ³

Germany

Components	Type	Value
Sodium azide (26628-22-8)	AGW	0.2 mg/m ³

Italy

Components	Type	Value
Sodium azide (26628-22-8)	STEL	0.3 mg/m ³
	TWA	0.1 mg/m ³

Netherlands**Components**

	Type	Value
Sodium azide (26628-22-8)	STEL	0.3 mg/m ³
	TWA	0.1 mg/m ³

Spain**Components**

	Type	Value
Sodium azide (26628-22-8)	STEL	0.3 mg/m ³
	TWA	0.1 mg/m ³

Sweden**Components**

	Type	Value
Sodium azide (26628-22-8)	STEL	0.3 mg/m ³
	TWA	0.1 mg/m ³

Switzerland**Components**

	Type	Value	Form
Sodium azide (26628-22-8)	STEL	0.4 mg/m ³	Inhalable dust.
	TWA	0.2 mg/m ³	Inhalable dust.

United Kingdom**Components**

	Type	Value
Sodium azide (26628-22-8)	STEL	0.3 mg/m ³
	TWA	0.1 mg/m ³

Exposure controls

This preparation is aqueous and non-volatile and is not expected to require special ventilation measures. Facilities storing or using this preparation should be equipped with an eyewash fountain and a safety shower.

Personal protective equipment**Respiratory protection**

A respirator is not expected to be required under normal conditions of use.

Hand protection

Wear chemical resistant protective gloves.

Eye protection

Wear appropriate protective chemical safety glasses or goggles.

Skin and body protection

Wear lab coat or other protective garments. Remove contaminated clothing promptly.

General

Follow company-specific safety procedures.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid.
Color	Clear, colorless
Odor	Not available
pH	7,2 (approximate)
Melting point	Not applicable
Freezing point	Not available
Boiling point	Not available
Flash point	Not available
Flammability	Not available.
Flammability limits in air, upper, % by volume	Not available
Flammability limits in air, lower, % by volume	Not available
Auto-ignition temperature	Not available
Oxidising properties	Not available
Vapor pressure	Not available
Specific gravity	Not available
Relative density	Not available
Partition coefficient (n-octanol/water)	Not available
Solubility (water)	Water-soluble

Viscosity	Not available
Vapor density	Not available

10. STABILITY AND REACTIVITY

Reactivity	Unknown.
Stability	Stable under ordinary conditions of use and storage. See Section 7.
Possibility of hazardous reactions	Hazardous polymerization will not occur.
Conditions to avoid	None known.
Materials to avoid	

Incompatibilities (NIOSH)

Sodium azide (26628-22-8)

Acids, metals, water [Note: Over a period of time, sodium azide may react with copper, lead, brass, or solder in plumbing systems to form an accumulation of the HIGHLY EXPLOSIVE compounds of lead azide & copper azide.]

Hazardous decomposition products	None expected under normal conditions of use.
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11. TOXICOLOGICAL INFORMATION

Routes of exposure	Occupational exposure routes may include eye contact, skin contact and skin absorption.
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Toxicological data

Components

Test Results

Sodium azide (26628-22-8)

Acute Dermal LD50 Rabbit: 20 mg/kg

Acute Oral LD50 Mouse: 27 mg/kg

Acute Oral LD50 Rat: 27 mg/kg

Local effects	No data available.
Chronic toxicity	No data available.
Carcinogenicity	No data available.
Mutagenicity	No data available.
Reproductive effects	No data available.
Teratogenicity	No data available.
Sensitization	No data available.

12. ECOLOGICAL INFORMATION

Ecotoxicological data

Components

Test Results

Sodium azide (26628-22-8)

EC50 Water flea (Daphnia pulex): 2,8 - 6,2 mg/l 48 hours

LC50 Bluegill (Lepomis macrochirus): 0,68 mg/l 96 hours

Mobility in environmental media	No data available.
Persistence / degradability	No data available.
Bioaccumulation	No data available.

13. DISPOSAL CONSIDERATIONS

Disposal instructions	This preparation contains a small amount of sodium azide which can react with copper, lead, brass or solder in plumbing systems and form potentially explosive metal azides. If preparation enters drain, flush with a large volume of water to prevent azide build-up. Dispose of unused product, spilled material and waste in accordance with all applicable federal, state, local and provincial environmental and hazardous waste regulations.
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14. TRANSPORT INFORMATION

ADR

Not regulated as hazardous goods.

IATA

Not regulated as hazardous goods.

15. REGULATORY INFORMATION

International regulations In the European Union this product is regulated under the In Vitro Diagnostic Medical Devices Directive (98/79/EC).

EU CLP EC/1272/2008, Annex VI, Table 3.2: Labelling

Sodium azide (26628-22-8) T+,N R28-R32-R50/53 S(1/2)-S28-S45-S60-S61

EU EINECS: Registration Status/EINECS number

Sodium azide (26628-22-8) Listed.

Germany Substances That Are Water-Endangering (WGK): WGK Identification Number/Classification/Source of Classification: Annex 2 c

Sodium azide (26628-22-8) Classification source is Annex 2. Water-endangering.

Switzerland Consolidated Inventory: Registration Status

Sodium azide (26628-22-8) Listed.

Switzerland Giftliste 1 (Substances): Identification Number/Toxic Category

Sodium azide (26628-22-8) Switzerland Giftliste 1 (Substances): Identification Number/Toxic Category Toxicity category 2.

Labeling

Symbol(s)



Harmful

R-phrases(s)

R22 Harmful if swallowed.
R32 Contact with acids liberates very toxic gas.

S-phrases(s)

S35 This material and its container must be disposed of in a safe way.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

16. OTHER INFORMATION

List of relevant R phrases

R22 Harmful if swallowed.
R25 Toxic if swallowed.
R27 Also very toxic in contact with skin.
R32 Contact with acids liberates very toxic gas.
R50 Very toxic to aquatic organisms.
R53 May cause long-term adverse effects in the aquatic environment.

Further information

This SDS has been prepared in accordance with the hazard criteria and content requirements of the UK Chemical Hazard Information and Packaging Regulations and the European Communities Hazardous Preparations and REACH Regulations.

The Product name in Section 1 has been revised.
The Transport information in Section 14 has been revised.

SDS Number

1009

Version number

02

Issue date

04-02-2010

Revision date

04-02-2010

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