

Material Safety Data Sheet

United States
English

Section 1. Chemical product and company identification

Product name **Wash Buffer; part of 'illustra GFX™ PCR DNA and Gel Band Purification Kit, 250'**

Catalogue Number 28903471



Material uses Industrial applications: Analytical chemistry. Research.
Validation date 13 July 2006
Print date 13 July 2006
Supplier GE Healthcare Bio-Sciences AB
 SE-751 84 Uppsala
 Sweden
 +46 (0)18 612 0000

In case of emergency

US	ChemTrec (US)	1-800-424-9300
Canada	ChemTrec (US)	1-703-527-3887

2. Hazards identification

Physical state Liquid.
Odor Odorless.
OSHA/HCS status While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.
Emergency overview No specific hazard.
Potential acute health effects
Eyes No known significant effects or critical hazards.
Skin No known significant effects or critical hazards.
Inhalation No known significant effects or critical hazards.
Ingestion No known significant effects or critical hazards.
Potential chronic health effects **CARCINOGENIC EFFECTS:** Not available.
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.

See toxicological information (section 11)

3. Composition/information on ingredients

Section 4. First aid measures

Eye contact In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if irritation occurs.
Skin contact Wash with soap and water. Get medical attention if symptoms appear.
Inhalation If inhaled, remove to fresh air. Get medical attention if symptoms appear.
Ingestion Do not ingest. Get medical attention if symptoms appear.
Protection of first-aiders No action shall be taken involving any personal risk or without suitable training.



Article Number
28903471-2



Page: 1/4
Validation date 13 July 2006
Version 1

Section 5. Fire fighting measures

Flammability of the product	Non-flammable.
Extinguishing media	
Suitable	Use an extinguishing agent suitable for the surrounding fire.
Not suitable	None known.
Special exposure hazards	No specific hazard.
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions	Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment.
Environmental precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
Methods for cleaning up	If emergency personnel are unavailable, contain spilled material. For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container for disposal. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

Section 7. Handling and storage

Handling	Wash thoroughly after handling.
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8. Exposure controls, personal protection

Engineering measures	No special ventilation requirements. Good general ventilation should be sufficient to control airborne levels. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.
Personal protection	
Eyes	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.
Skin	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Hands	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Consult local authorities for acceptable exposure limits.	

Section 9. Physical and chemical properties

Physical state	Liquid.
Color	Colorless.
Odor	Odorless.
Boiling/condensation point	The lowest known value is 100°C (212°F) (water).
Melting/freezing point	May start to solidify at 0°C (32°F) based on data for: water.
Critical temperature	The lowest known value is 374.3°C (705.7°F) (water).
Vapor pressure	The highest known value is 3.2 kPa (23.8 mm Hg) (at 20°C) (water).
Volatility	0% (v/v)
Evaporation rate	0.36 (water) compared with Butyl acetate.
VOC	0 (g/l).
Dispersibility properties	See solubility in water, methanol, acetone.
Solubility	Easily soluble in cold water, hot water, methanol, acetone.



Section 10. Stability and reactivity

Stability and reactivity	The product is stable.
Incompatibility with various substances	Non-reactive or compatible with the following materials: oxidizing materials, reducing materials, combustible materials, organic materials, metals, acids, alkalis and moisture.
Hazardous polymerization	Will not occur.
Conditions of reactivity	Non-flammable in the presence of the following materials or conditions: open flames, sparks and static discharge, heat, shocks and mechanical impacts, oxidizing materials, reducing materials, combustible materials, organic materials, metals, acids, alkalis and moisture. Non-explosive in the presence of the following materials or conditions: open flames, sparks and static discharge, heat, shocks and mechanical impacts, oxidizing materials, reducing materials, combustible materials, organic materials, metals, acids, alkalis and moisture.

Section 11. Toxicological information

Other toxic effects on humans	Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation (lung irritant).
Specific effects	
Carcinogenic effects	No known significant effects or critical hazards.
Mutagenic effects	No known significant effects or critical hazards.
Teratogenicity / Reproduction toxicity	No known significant effects or critical hazards.
Sensitization	
Ingestion	No known significant effects or critical hazards.
Inhalation	No known significant effects or critical hazards.
Eyes	No known significant effects or critical hazards.
Skin	No known significant effects or critical hazards.

Section 12. Ecological information

Environmental precautions	No known significant effects or critical hazards.
Toxicity of the products of biodegradation	The products of degradation are more toxic than the product itself.

Section 13. Disposal considerations

Waste disposal	The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
Consult your local or regional authorities.	

Section 14. Transport information

International transport regulations

Not classified.

Section 15. Regulatory information

HCS Classification	Not regulated.
U.S. Federal regulations	TSCA 8(b) inventory: Tris(hydroxymethyl)aminomethane hydrochloride; ethylenediamine tetraacetic acid; water SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found. SARA 302/304/311/312 hazardous chemicals: No products were found. SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found. Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: ethylenediamine tetraacetic acid Clean Air Act (CAA) 112 accidental release prevention: No products were found. Clean Air Act (CAA) 112 regulated flammable substances: No products were found. Clean Air Act (CAA) 112 regulated toxic substances: No products were found.
State regulations	Pennsylvania RTK: ethylenediamine tetraacetic acid: (environmental hazard, generic environmental hazard) Massachusetts RTK: ethylenediamine tetraacetic acid New Jersey: ethylenediamine tetraacetic acid

EU regulations



Article Number

28903471-2



9 5 2 8 9 0 3 4 7 1 - 2

Page: 3/4

Validation date 13 July 2006

Version 1

Risk phrases This product is not classified according to EU legislation.

International regulations

International lists

Australia (NICNAS): Tris(hydroxymethyl)aminomethane hydrochloride; ethylenediamine tetraacetic acid; water

China: Tris(hydroxymethyl)aminomethane hydrochloride; ethylenediamine tetraacetic acid; water

Germany water class: Tris(hydroxymethyl)aminomethane hydrochloride; ethylenediamine tetraacetic acid

Japan (METI): Tris(hydroxymethyl)aminomethane hydrochloride; ethylenediamine tetraacetic acid; water

Korea (TCCL): Tris(hydroxymethyl)aminomethane hydrochloride; ethylenediamine tetraacetic acid; water

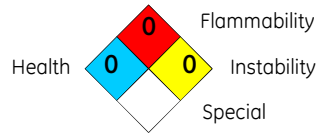
Philippines (RA6969): Tris(hydroxymethyl)aminomethane hydrochloride; ethylenediamine tetraacetic acid; water

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health	0
Fire hazard	0
Reactivity	0
Personal protection	B

National Fire Protection Association (U.S.A.)



Indicates information that has changed from previously issued version.

History

Date of printing	13 July 2006	Date of previous issue	No previous validation
Date of issue	13 July 2006	Version	1

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



Material Safety Data Sheet

United States
English

Section 1. Chemical product and company identification

Product name Capture Buffer; part of 'illustra GFX™ PCR DNA and Gel Band Purification Kit, 250'

Catalogue Number 28903471



Material uses Industrial applications: Analytical chemistry. Research.

Validation date 12 July 2006

Print date 12 July 2006

Supplier GE Healthcare Bio-Sciences AB
SE-751 84 Uppsala
Sweden
+46 (0)18 612 0000

In case of emergency

US	ChemTrec (US)	1-800-424-9300
Canada	ChemTrec (US)	1-703-527-3887

2. Hazards identification

Physical state Liquid.
Odor Odorless.
OSHA/HCS status This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Emergency overview Warning!
 CAUSES SEVERE RESPIRATORY TRACT IRRITATION.
 CAUSES EYE IRRITATION.
 MAY BE HARMFUL IF ABSORBED THROUGH SKIN OR IF SWALLOWED.
 Do not ingest. Avoid prolonged contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

Potential acute health effects

Eyes Irritating to eyes.
Skin Harmful in contact with skin.
Inhalation Severely irritating to the respiratory system.
Ingestion Harmful if swallowed.

Potential chronic health effects **CARCINOGENIC EFFECTS:** Not available.
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.

Medical conditions aggravated by over-exposure Repeated or prolonged exposure to the substance can produce lung damage. Repeated or prolonged contact with spray or mist may produce chronic eye irritation and severe skin irritation.

See toxicological information (section 11)

3. Composition/information on ingredients

<u>Name</u>	<u>CAS number</u>	<u>% by weight</u>	<u>Exposure limits</u>
Guanidine thiocyanate	593-84-0	30 - 40	



Article Number
28903471-1



Page: 1/5
Validation date 12 July 2006

Version 1

Section 4. First aid measures

Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention.
Skin contact	Flush contaminated skin with plenty of water. Continue to rinse for at least 10 minutes. Get medical attention. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing or wear gloves. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Inhalation	Move exposed person to fresh air. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Ingestion	Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training.

Section 5. Fire fighting measures

Flammability of the product	Non-flammable.
Extinguishing media	
Suitable	Use an extinguishing agent suitable for the surrounding fire.
Not suitable	None known.
Special exposure hazards	No specific hazard.
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions	Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment.
Environmental precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
Methods for cleaning up	If emergency personnel are unavailable, contain spilled material. For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container for disposal. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

Section 7. Handling and storage

Handling	Do not ingest. Avoid contact with eyes, skin and clothing. Keep container closed. Use only with adequate ventilation. Avoid breathing vapor or mist. Wash thoroughly after handling.
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8. Exposure controls, personal protection

Engineering measures	Use only with adequate ventilation. If user operations generate dust, fumes, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Personal protection	
Eyes	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.
Skin	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Hands	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Consult local authorities for acceptable exposure limits.



Section 9. Physical and chemical properties

Physical state	Liquid.
Color	Colorless.
Odor	Odorless.
Boiling/condensation point	The lowest known value is 100°C (212°F) (water).
Melting/freezing point	May start to solidify at 0°C (32°F) based on data for: water.
Critical temperature	The lowest known value is 374.3°C (705.7°F) (water).
Vapor pressure	The highest known value is 3.2 kPa (23.8 mm Hg) (at 20°C) (water).
Volatility	0% (v/v)
Evaporation rate	0.36 (water) compared with Butyl acetate.
VOC	0 (g/l).
Dispersibility properties	See solubility in water, methanol, acetone.
Solubility	Easily soluble in cold water, hot water, methanol, acetone.

Section 10. Stability and reactivity

Stability and reactivity	The product is stable.
Incompatibility with various substances	Highly reactive or incompatible with the following materials: acids. Reactive or incompatible with the following materials: oxidizing materials. Non-reactive or compatible with the following materials: reducing materials, combustible materials, organic materials, metals, alkalis and moisture.
Hazardous polymerization	Will not occur.
Conditions of reactivity	Non-flammable in the presence of the following materials or conditions: open flames, sparks and static discharge, heat, shocks and mechanical impacts, oxidizing materials, reducing materials, combustible materials, organic materials, metals, acids, alkalis and moisture. Non-explosive in the presence of the following materials or conditions: open flames, sparks and static discharge, heat, shocks and mechanical impacts, oxidizing materials, reducing materials, combustible materials, organic materials, metals, acids, alkalis and moisture.

Section 11. Toxicological information

Other toxic effects on humans	No specific information is available in our database regarding the other toxic effects of this material to humans.
<u>Specific effects</u>	
Carcinogenic effects	No known significant effects or critical hazards.
Mutagenic effects	No known significant effects or critical hazards.
Teratogenicity / Reproduction toxicity	No known significant effects or critical hazards.
<u>Sensitization</u>	
Ingestion	No known significant effects or critical hazards.
Inhalation	Severely irritating to the respiratory system.
Eyes	Irritating to eyes.
Skin	No known significant effects or critical hazards.

Section 12. Ecological information

Environmental precautions	Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
Products of degradation	These products are carbon oxides (CO, CO ₂) and water, nitrogen oxides (NO, NO ₂ etc.), sulfur oxides (SO ₂ , SO ₃ etc.).
Toxicity of the products of biodegradation	The products of degradation are less toxic than the product itself.

Section 13. Disposal considerations

Waste disposal	The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
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Consult your local or regional authorities.



Section 14. Transport information


International transport regulations

Not classified.

Section 15. Regulatory information

HCS Classification	Irritating material Target organ effects
U.S. Federal regulations	TSCA 8(b) inventory: Guanidine thiocyanate; ethylenediamine tetraacetic acid; water SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found. SARA 302/304/311/312 hazardous chemicals: No products were found. SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found. Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: ethylenediamine tetraacetic acid Clean Air Act (CAA) 112 accidental release prevention: No products were found. Clean Air Act (CAA) 112 regulated flammable substances: No products were found. Clean Air Act (CAA) 112 regulated toxic substances: No products were found.
State regulations	Pennsylvania RTK: ethylenediamine tetraacetic acid: (environmental hazard, generic environmental hazard) Massachusetts RTK: ethylenediamine tetraacetic acid New Jersey: ethylenediamine tetraacetic acid

EU regulations

Hazard symbol/symbols	
Risk phrases	R20/21/22- Harmful by inhalation, in contact with skin and if swallowed. R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Safety phrases	S36/37- Wear suitable protective clothing and gloves.

International regulations

International lists	Australia: Guanidine thiocyanate Australia (NICNAS): Guanidine thiocyanate; ethylenediamine tetraacetic acid; water China: Guanidine thiocyanate; ethylenediamine tetraacetic acid; water Germany water class: Guanidine thiocyanate; ethylenediamine tetraacetic acid Japan (METI): ethylenediamine tetraacetic acid; water Korea (TCCL): ethylenediamine tetraacetic acid; water Philippines (RA6969): Guanidine thiocyanate; ethylenediamine tetraacetic acid; water
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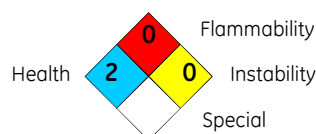
Section 16. Other information

Label requirements	CAUSES SEVERE RESPIRATORY TRACT IRRITATION. CAUSES EYE IRRITATION. MAY BE HARMFUL IF ABSORBED THROUGH SKIN OR IF SWALLOWED.
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Hazardous Material Information System (U.S.A.)

Health	0
Fire hazard	0
Reactivity	0
Personal protection	B

National Fire Protection Association (U.S.A.)



Article Number

28903471-1



9 5 2 8 9 0 3 4 7 1 - 1

Page: 4/5

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Version 1



Indicates information that has changed from previously issued version.

History

Date of printing	12 July 2006	Date of previous issue	No previous validation
Date of issue	12 July 2006	Version	1

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



SAFETY STATEMENT

This document is only available in English.

1. Identification of the substance/preparation and of the company/undertaking

Product name

Elution Buffer 3A; part of 'illustra GFX™ PCR DNA and Gel Band Purification Kit, 250'

Catalogue Number

28903471



9 0 2 8 9 0 3 4 7 1

Supplier

GE Healthcare Bio-Sciences AB
SE-751 84 Uppsala
Sweden
+46 (0)18 612 0000

Swedish Poisons Information Centre :
+46 (0)8 331 231

Europe

+46 18 612 0000

USA

1-800-424-9300

Australia

000 or +61 2 9899 0999

2. Composition / information on ingredients

Substance/Preparation Preparation

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting in this section, in accordance with EU or national regulations.

Statement of hazardous nature

To the best of our knowledge this substance/preparation is not classified as hazardous according to EU, US or any other known national regulations.

9. Physical and chemical properties

Physical state Liquid.

Color Colorless.

16. Other information

History

Date of printing	13 July 2006	Date of previous issue	No previous validation
Date of issue	13 July 2006	Version	1

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This is not an MSDS. According to EU and US regulations we are not required to supply an MSDS for a product which is not classified as hazardous.



Article Number

28903471-4



9 5 2 8 9 0 3 4 7 1 - 4

Page: 1/1

Validation date 13 July 2006

Version 1

SAFETY STATEMENT

This document is only available in English.

1. Identification of the substance/preparation and of the company/undertaking

Product name

Elution Buffer 3B; part of 'illustra GFX™ PCR DNA and Gel Band Purification Kit, 250'

Catalogue Number

28903471



9 0 2 8 9 0 3 4 7 1

Supplier

GE Healthcare Bio-Sciences AB
SE-751 84 Uppsala
Sweden
+46 (0)18 612 0000

Swedish Poisons Information Centre :
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Europe

+46 18 612 0000

USA

1-800-424-9300

Australia

000 or +61 2 9899 0999

2. Composition / information on ingredients

Substance/Preparation

Substance

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting in this section, in accordance with EU or national regulations.

Statement of hazardous nature

To the best of our knowledge this substance/preparation is not classified as hazardous according to EU, US or any other known national regulations.

9. Physical and chemical properties

Physical state

Liquid.

Color

Colorless.

16. Other information

History

Date of printing

12 July 2006

Date of previous issue

No previous validation

Date of issue

12 July 2006

Version

1

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This is not an MSDS. According to EU and US regulations we are not required to supply an MSDS for a product which is not classified as hazardous.



Article Number

28903471-3



9 5 2 8 9 0 3 4 7 1 - 3

Page: 1/1

Validation date 12 July 2006

Version 1