# SAFETY DATA SHEET



## Norgen DNA Gel Extraction Kit

# Identification of the substance/preparation and of the company/undertaking

Norgen DNA Gel Extraction Kit **Product name** Manufacturer : Norgen Biotek Corp.

344 Merritt St.

St. Catharines, Ontario Canada L2T 1K6 Tel: (905) 227-8848 Fax: (905) 227-1061

Chemical product name : Not applicable. Supplier: Norgen Biotek Corp.

344 Merritt St.

St. Catharines, Ontario Canada L2T 1K6 Tel: (905) 227-8848 Fax: (905) 227-1061

**Synonyms** : Not available. **Emergency Chemical Formula** 

telephone Not applicable. number

Canada: CANUTEC-1-613-996-6666

US:

CHEMTREC-1-800-424-9300

**Material Uses** Catalog#

: Binding solution.

P/N 13101; Not available.

# Composition/information on ingredients

Substance/Preparation : Preparation.

Chemical name	CAS No.	%	EC Number	Classification
United States 1) Guanidine thiocyanate	593-84-0	20-80	209-812-1	Toxic Reacts withn acids.
Germany 1) Guanidine thiocyanate  See Section 16 for the full text of the R Phrases declared above	593-84-0	20-80	209-812-1	Xn; R20/21/22 R32
United Kingdom (UK)  1) Guanidine thiocyanate  Japan	593-84-0	20-80	209-812-1	Xn; R20/21/22 R32
Guanidine thiocyanate	593-84-0	20-80	Not listed (METI).	Not available.
Canada  1) Guanidine thiocyanate	593-84-0	20-80	209-812-1	D1B

This material is classified as non-hazardous under the United States OSHA regulation, in Japan and under the Canadian WHMIS regulation. This material is classified as hazardous under the European DSD/DPD Directives and several countries specific requirements.

See Section 8 for Exposure Limits. See Section 11 for Toxicological Data. See Section 14 for UN Number.

#### 3. Hazards identification

Physical State and

: Liquid. (Clear.)

**Appearance Emergency Overview** 

: CAUTION!

MAY BE HARMFUL IF INHALED, ABSORBED THROUGH SKIN OR SWALLOWED.

Follow good industrial hygiene practice.

**Routes of Entry** : Dermal contact. Eye contact. Inhalation. Ingestion.

The preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification in Europe

: Xn; R20/21/22 Human health hazards

Effects and symptoms

: Harmful by inhalation, in contact with skin and if swallowed.

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Skin Contact : Slightly hazardous in case of skin contact (irritant). Non-sensitizer for skin.

**Eye Contact** Slightly hazardous in case of eye contact (irritant).

Aggravating conditions Repeated or prolonged exposure is not known to aggravate medical condition.

#### First aid measures

First-Aid measures

Skin Contact

**Eye Contact** 

Inhalation : If inhaled, remove to fresh air. Get medical attention if symptoms appear.

: Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to Ingestion an unconscious person. If large quantities of this material are swallowed, call a physician immediately.

: In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient.

Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of

water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs.

Notes to physician No specific antidote. Medical staff must contact Poison Information Center.

**Protection of first-aiders** : Not available

### Fire-fighting measures

**Extinguishing Media** 

Suitable Use extinguishing media suitable for surrounding materials.

Unsuitable. : Not applicable. : Not applicable. Unusual fire/explosion hazards Hazardous thermal : Not applicable.

decomposition products

Special fire-fighting procedures Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout

**Protection of fire-fighters** : Not applicable.

## Accidental release measures

: Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult Personal precautions

a specialist before handling this product.

**Environmental Precautions and** : Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish Clean-up Methods cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary

Note: See section 8 for personal protective equipment and section 13 for waste disposal.

#### 7. Handling and storage

Handling : Avoid contact with eyes. Wear suitable protective clothing. If you feel unwell, seek medical attention

and show the label when possible. Keep away from incompatibles such as oxidizing agents.

Storage Keep container tightly closed. Keep container in a cool, well-ventilated area. Preferred storage

temperature is 4°C. For long-term storage keep at -20°C.

Germany - Storage Code : Not available.

#### 8. Exposure controls/personal protection

**Engineering measures** Good general ventilation should be sufficient to control airborne levels.

Wash hands, forearms, and face thoroughly after handling compounds and before eating, smoking, using lavatory, and at the end of day. Hygiene measures

**Occupational Exposure Limits** 

**Ingredient Name** 

**United States** 

1) None assigned.

Germany

1) None assigned.

United Kingdom (UK)

1) None assigned.

1) None assigned.

Canada

1) None assigned.

Recommended monitoring Not available

Personal protective equipment

Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Respiratory system

Skin and body Lab coat Hands Gloves Eves Safety glasses

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#### 9. Physical and chemical properties

Physical state : Liquid. (Clear.) Color Colorless. Odor Odorless : Neutral pH

**Boiling Point** The lowest known value is 99.9°C (211.8°F) (Water).

May start to solidify at -0.1°C (31.8°F) based on data for: Water. **Melting Point** 

Flash point

Risks of explosion of the product in presence of mechanical impact: Not applicable. **Explosive properties** 

Risks of explosion of the product in presence of static discharge: Not applicable.

**Vapor Pressure** The highest known value is 2.3 kPa (17.5 mm Hg) (at 20°C) (Water).

The only known value is 1 (Water = 1) (Water).

**Solubility** Miscible in water.

**Vapor Density** : The highest known value is 0.62 (Air = 1) (Water).

### 10. Stability and reactivity

: The product is stable at room temperature. Stability

The product is unstable at a temperature above 37°C. See Section 7 for storage conditions. Conditions to avoid

Materials to avoid Reactive with oxidizing agents.

**Hazardous Decomposition** 

: Not applicable.

**Products** 

# Toxicological information

Acute toxicity

**Test Ingredient Name** Result **Route Species** 

**Skin irritation** : Slightly hazardous in case of skin contact (irritant). Eye irritation : Slightly hazardous in case of eye contact (irritant).

Sensitization : Non-sensitizer for skin.

Chronic toxicity : Repeated or prolonged exposure is not known to aggravate medical condition.

**Carcinogenic Effects** : Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

**Mutagenic Effects** : Not available. Reproduction toxicity : Not available : Not available **Developmental and** 

**Teratogenic Effects** 

To the best of our knowledge, the toxicological properties of this substance have not been investigated thoroughly.

# 12. Ecological information

**Ecotoxicity Data** 

**Ingredient Name Species** Period Result

**Mobility** : Not available Persistence/degradability : Not available Bioaccumulative potential : Not available. Soil/Water Partition Coefficient (Koc) : Not available

# Disposal considerations

Methods of disposal Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Waste Classification Not applicable **European Waste Catalogue** : Not available.

(EWC)

**Hazardous Waste** : The classification of the product may meet the criteria for a hazardous waste

# 14. Transport information

**International transport regulations** 

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Norgen DNA Gel Extraction Kit		
Regulatory Information	Classification	
DOT (United States)	Not regulated.	_
ADR/RID (Europe)	Not regulated.	_
ADN (Europe)	Not regulated.	_
Road Law (Japan)	Not regulated.	_
TDG (Canada)	Not regulated.	_
IATA-DGR	Not regulated.	_
IMDG	Not regulated.	_

# 15. Regulatory information

**HCS (United States)** 

**U.S. Federal Regulations** 

: TSCA 8(b) inventory: All components listed.

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: No products were found.

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.

**SARA 313** 

Form R - Reporting

**Supplier Notification** 

: No products were found.

Requirements

: No products were found.

**State Regulations** : No products were found.

California prop. 65: No products were found.

**EU Regulations** 

**Contains** : Guanidine thiocyanate

: Classification and labeling have been performed according to EU directives 67/548/EEC, 1999/45/EC

209-812-1

including amendments and the intended use.

- Industrial applications.

**National regulations** 

**Product Use** 

Germany

**Employment restrictions in** : Yes.

accordance with § 15b of the

**Hazardous Substance** 

**Ordinance** 

**Hazardous Incident** : No.

**Ordinance Ordinance on Combustible** 

: Class: Omitted Liquids

Hazard class for water : 2

(GWK)

**United Kingdom (UK)** 

**VOC Content (Retail Use)** : Not applicable.

**VOC Content (Industrial** 

Use)

: Contains 0 wt% VOC.

**Japan Control Laws** : Not applicable.

WHMIS (Canada) : D-1B: Material causing immediate and serious toxic effects (TOXIC).

DSL/NDSL: All components listed.

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

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### 16. Other information

**US Label Requirements** 

: MAY BE HARMFUL IF INHALED, ABSORBED THROUGH SKIN OR SWALLOWED.

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



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



**Europe Label** 



Safety phrases : S2- Keep out of the reach of children.

S36/37- Wear suitable protective clothing and gloves.

S46- If swallowed, seek medical advice immediately and show this container or label.

Japan Label : Not applicable.

WHMIS Label



**HISTORY** 

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Date of Previous Issue : No Previous Validation.

Version : :

Prepared by : Kemika XXI inc.

**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.

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# SAFETY DATA SHEET

# NORGEN BIOTEK & CORPORATION

### Norgen DNA Gel Extraction Kit

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

Product name : Norgen DNA Gel Extraction Kit Manufacturer : Norgen Biotek Corp.

344 Merritt St.

St. Catharines, Ontario Canada L2T 1K6 Tel: (905) 227-8848 Fax: (905) 227-1061

Supplier: Norgen Biotek Corp.

344 Merritt St.

St. Catharines, Ontario Canada L2T 1K6 Tel: (905) 227-8848 Fax: (905) 227-1061

Synonyms : Not available. Emergency
Chemical Formula Not applicable telephone

Not applicable. telephone : number

Canada: CANUTEC-1-613-996-6666

US:

CHEMTREC-1-800-424-9300

Material Uses Catalog#

Chemical product name

: Wash solution.

: Not applicable.

P/N 13102;

# 2. Composition/information on ingredients

**Substance/Preparation**: Preparation.

Chemical name	CAS No.	%	EC Number	Classification
United States				
Germany				
United Kingdom (UK)				
Japan				
Canada				

This material is classified as non-hazardous under the United States OSHA regulation, the European DSD/DPD Directives and several countries specific requirements, in Japan and under the Canadian WHMIS regulation.

# 3. Hazards identification

Physical State and

**Emergency Overview** 

: Liquid. (Clear.)

Appearance

: No specific hazard.

USE WITH CARE.

Follow good industrial hygiene practice.

Routes of Entry : Derm

: Dermal contact. Eye contact. Inhalation. Ingestion.

The preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Effects and symptoms

Skin Contact: Slightly hazardous in case of skin contact (irritant). Non-sensitizer for skin.

Eye Contact : Slightly hazardous in case of eye contact (irritant).

Aggravating conditions : Repeated or prolonged exposure is not known to aggravate medical condition.

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#### 4. First aid measures

#### First-Aid measures

Inhalation

**Skin Contact** 

Ingestion

: If inhaled, remove to fresh air. Get medical attention if symptoms appear.

: Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to

an unconscious person. If large quantities of this material are swallowed, call a physician immediately.

: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation

develops. Cold water may be used.

**Eye Contact** : Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs.

Notes to physician : No specific antidote. Medical staff must contact Poison Information Center.

**Protection of first-aiders** : Not available

#### 5. Fire-fighting measures

#### **Extinguishing Media**

Suitable : Use extinguishing media suitable for surrounding materials.

Unsuitable. : Not applicable. Unusual fire/explosion hazards : Not applicable. Hazardous thermal : Not applicable. decomposition products

**Special fire-fighting procedures** 

: Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout

**Protection of fire-fighters** : Not applicable.

### Accidental release measures

Personal precautions

: Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist before handling this product.

**Environmental Precautions and** Clean-up Methods

Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Note: See section 8 for personal protective equipment and section 13 for waste disposal.

#### 7. Handling and storage

Handling

: Avoid contact with eyes. Wear suitable protective clothing. If you feel unwell, seek medical attention and show the label when possible. Keep away from incompatibles such as oxidizing agents.

Storage

Keep container tightly closed. Keep container in a cool, well-ventilated area. Preferred storage temperature is 4°C. For long-term storage keep at -20°C.

Germany - Storage Code : Not available.

#### 8. Exposure controls/personal protection

**Engineering measures** 

: Good general ventilation should be sufficient to control airborne levels.

**Occupational Exposure Limits** 

**Hygiene measures** 

: Wash hands after handling compounds and before eating, smoking, using lavatory, and at the end of

### **Ingredient Name**

**United States** 

1) None assigned.

Germany

1) None assigned.

United Kingdom (UK)

1) None assigned.

Japan

1) None assigned.

Canada

1) None assigned.

**Recommended monitoring** procedures

Not available.

Personal protective equipment

Skin and body Lab coat. Eyes Safety glasses.

Date of issue : 2004-11-12. Page: 2/5

#### 9. Physical and chemical properties

Physical state : Liquid. (Clear.) Color Colorless. Odor Odorless : Neutral pH

**Boiling Point** The lowest known value is 99.9°C (211.8°F) (Water).

May start to solidify at -0.1°C (31.8°F) based on data for: Water. **Melting Point** 

Flash point

Risks of explosion of the product in presence of mechanical impact: Not applicable. **Explosive properties** 

Risks of explosion of the product in presence of static discharge: Not applicable.

**Vapor Pressure** The highest known value is 2.3 kPa (17.5 mm Hg) (at 20°C) (Water).

The only known value is 1 (Water = 1) (Water).

**Solubility** Miscible in water.

**Vapor Density** : The highest known value is 0.62 (Air = 1) (Water).

### 10. Stability and reactivity

: The product is stable at room temperature. Stability

The product is unstable at a temperature above 37°C. See Section 7 for storage conditions. Conditions to avoid

Materials to avoid Reactive with oxidizing agents.

**Hazardous Decomposition** 

: Not applicable.

# Toxicological information

Acute toxicity

**Products** 

**Test Ingredient Name** Result **Route Species** 

**Skin irritation** : Slightly hazardous in case of skin contact (irritant). Eye irritation : Slightly hazardous in case of eye contact (irritant).

Sensitization : Non-sensitizer for skin.

Chronic toxicity : Repeated or prolonged exposure is not known to aggravate medical condition.

**Carcinogenic Effects** : Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

**Mutagenic Effects** : Not available. Reproduction toxicity : Not available : Not available **Developmental and** 

**Teratogenic Effects** 

To the best of our knowledge, the toxicological properties of this substance have not been investigated thoroughly.

# 12. Ecological information

**Ecotoxicity Data** 

**Ingredient Name Species** Period Result

**Mobility** : Not available Persistence/degradability : Not available Bioaccumulative potential : Not available. Soil/Water Partition Coefficient (Koc) : Not available

# Disposal considerations

Methods of disposal Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Waste Classification Not applicable. **European Waste Catalogue** : Not available.

(EWC) **Hazardous Waste** To present knowledge of the supplier, this product is not regarded as hazardous waste as defined by

EU Directive 91/689/EC

# 14. Transport information

**International transport regulations** 

Date of issue : 2004-11-12. Page: 3/5

Norgen DNA Gel Extr	action Kit	
Regulatory Information	Classification	
DOT (United States)	Not regulated.	-
ADR/RID (Europe)	Not regulated.	-
ADN (Europe)	Not regulated.	_
Road Law (Japan)	Not regulated.	-
TDG (Canada)	Not regulated.	<del>-</del> -
IATA-DGR	Not regulated.	_
IMDG	Not regulated.	

# 15. Regulatory information

**HCS (United States)** 

: Not controlled under the HCS (United States).

**U.S. Federal Regulations** 

: TSCA 8(b) inventory: All components listed.

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: No products were found.

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.

**SARA 313** 

Form R - Reporting

: No products were found.

Requirements

**Supplier Notification** : No products were found.

**State Regulations** 

California prop. 65: No products were found.

**EU Regulations** 

**Product Use** 

: Classification and labeling have been performed according to EU directives 67/548/EEC, 1999/45/EC

including amendments and the intended use. - Industrial applications.

**National regulations** 

Germany

**Ordinance on Combustible** 

Liquids

Hazard class for water

(GWK)

United Kingdom (UK)

**VOC Content (Retail Use)** : Not applicable.

**VOC Content (Industrial** 

: Contains 0 wt% VOC.

: Class: Omitted

**Japan Control Laws** : Not applicable.

: Not controlled under WHMIS (Canada). WHMIS (Canada)

DSL/NDSL: All components listed.

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

### 16. Other information

**US Label Requirements** : USE WITH CARE.

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



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



**Europe Label** 

Japan Label : Not applicable.

WHMIS Label :

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Date of Previous Issue : No Previous Validation.

Version : 1

Prepared by : Kemika XXI inc.

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# SAFETY DATA SHEET

### Norgen DNA Gel Extraction Kit

## Identification of the substance/preparation and of the company/undertaking

Norgen DNA Gel Extraction Kit **Product name** Manufacturer : Norgen Biotek Corp.

344 Merritt St.

St. Catharines, Ontario Canada L2T 1K6 Tel: (905) 227-8848 Fax: (905) 227-1061

Supplier: Norgen Biotek Corp.

344 Merritt St.

St. Catharines, Ontario Canada L2T 1K6 Tel: (905) 227-8848 Fax: (905) 227-1061

**Synonyms** : Not available. **Emergency Chemical Formula** 

Canada: telephone Not applicable. number

CANUTEC-1-613-996-6666

US

CHEMTREC-1-800-424-9300

**Material Uses** Catalog#

P/N 13103;

Chemical product name

: Elution buffer.

: Not applicable.

#### 2. Composition/information on ingredients

Substance/Preparation : Preparation.

Chemical name	CAS No.	%	EC Number	Classification
United States				
Germany				
United Kingdom (UK)				
Japan				
Canada				

This material is classified as non-hazardous under the United States OSHA regulation, the European DSD/DPD Directives and several countries specific requirements, in Japan and under the Canadian WHMIS regulation.

#### Hazards identification 3.

Physical State and **Emergency Overview**  : Liquid. (Clear.)

Appearance

: No specific hazard.

USE WITH CARE.

Follow good industrial hygiene practice.

**Routes of Entry** 

: Dermal contact. Eye contact. Inhalation. Ingestion.

The preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.

**Effects and symptoms** 

: Slightly hazardous in case of skin contact (irritant). Non-sensitizer for skin. **Skin Contact** 

: Slightly hazardous in case of eye contact (irritant). **Eye Contact** 

**Aggravating conditions** : Repeated or prolonged exposure is not known to aggravate medical condition.

Date of issue : 2004-11-12. Page: 1/5

#### 4. First aid measures

#### First-Aid measures

**Inhalation** 

**Skin Contact** 

Ingestion

: If inhaled, remove to fresh air. Get medical attention if symptoms appear.

: Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to

an unconscious person. If large quantities of this material are swallowed, call a physician immediately.

: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation

develops. Cold water may be used.

**Eye Contact** : Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs.

Notes to physician : No specific antidote. Medical staff must contact Poison Information Center.

**Protection of first-aiders** : Not available

#### 5. Fire-fighting measures

#### **Extinguishing Media**

Suitable : Use extinguishing media suitable for surrounding materials.

Unsuitable. : Not applicable. Unusual fire/explosion hazards : Not applicable. Hazardous thermal : Not applicable. decomposition products

**Special fire-fighting procedures** 

: Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout

**Protection of fire-fighters** : Not applicable.

### Accidental release measures

Personal precautions

: Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist before handling this product.

**Environmental Precautions and** Clean-up Methods

Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Note: See section 8 for personal protective equipment and section 13 for waste disposal.

#### 7. Handling and storage

Handling

: Avoid contact with eyes. Wear suitable protective clothing. If you feel unwell, seek medical attention and show the label when possible. Keep away from incompatibles such as oxidizing agents.

Storage

Keep container tightly closed. Keep container in a cool, well-ventilated area. Preferred storage temperature is 4°C. For long-term storage keep at -20°C.

Germany - Storage Code : Not available.

#### 8. Exposure controls/personal protection

**Engineering measures** 

: Good general ventilation should be sufficient to control airborne levels.

**Occupational Exposure Limits** 

**Hygiene measures** 

: Wash hands after handling compounds and before eating, smoking, using lavatory, and at the end of

### **Ingredient Name**

**United States** 

1) None assigned.

Germany

1) None assigned.

United Kingdom (UK)

1) None assigned.

Japan

1) None assigned.

Canada

1) None assigned.

**Recommended monitoring** procedures

Not available.

Personal protective equipment

Skin and body Lab coat. Eyes Safety glasses.

Date of issue : 2004-11-12. Page: 2/5

#### 9. Physical and chemical properties

Physical state : Liquid. (Clear.) Color Colorless. Odor Odorless : 8.5 [Basic.] pH

**Boiling Point** The lowest known value is 99.9°C (211.8°F) (Water).

May start to solidify at -0.1°C (31.8°F) based on data for: Water. **Melting Point** 

Flash point

Risks of explosion of the product in presence of mechanical impact: Not applicable. **Explosive properties** 

Risks of explosion of the product in presence of static discharge: Not applicable.

**Vapor Pressure** The highest known value is 2.3 kPa (17.5 mm Hg) (at 20°C) (Water).

The only known value is 1 (Water = 1) (Water).

**Solubility** Miscible in water.

**Vapor Density** : The highest known value is 0.62 (Air = 1) (Water).

### 10. Stability and reactivity

: The product is stable at room temperature. Stability

The product is unstable at a temperature above 37°C. See Section 7 for storage conditions. Conditions to avoid

Materials to avoid Reactive with oxidizing agents.

**Hazardous Decomposition** 

**Products** 

: Not applicable.

# Toxicological information

Acute toxicity

**Test Ingredient Name** Result **Route Species** 

**Skin irritation** : Slightly hazardous in case of skin contact (irritant). Eye irritation : Slightly hazardous in case of eye contact (irritant).

Sensitization : Non-sensitizer for skin.

Chronic toxicity : Repeated or prolonged exposure is not known to aggravate medical condition.

**Carcinogenic Effects** : Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

**Mutagenic Effects** : Not available. Reproduction toxicity : Not available : Not available **Developmental and** 

**Teratogenic Effects** 

To the best of our knowledge, the toxicological properties of this substance have not been investigated thoroughly.

# 12. Ecological information

**Ecotoxicity Data** 

**Ingredient Name Species** Period Result

**Mobility** : Not available Persistence/degradability : Not available Bioaccumulative potential : Not available. Soil/Water Partition Coefficient (Koc) : Not available

# Disposal considerations

Methods of disposal Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Waste Classification Not applicable. **European Waste Catalogue** : Not available.

(EWC)

**Hazardous Waste** To present knowledge of the supplier, this product is not regarded as hazardous waste as defined by EU Directive 91/689/EC

# 14. Transport information

**International transport regulations** 

Date of issue : 2004-11-12. Page: 3/5

Norgen DNA Gel Extr	action Kit	
Regulatory Information	Classification	
DOT (United States)	Not regulated.	-
ADR/RID (Europe)	Not regulated.	-
ADN (Europe)	Not regulated.	_
Road Law (Japan)	Not regulated.	-
TDG (Canada)	Not regulated.	<del>-</del> -
IATA-DGR	Not regulated.	_
IMDG	Not regulated.	

# 15. Regulatory information

HCS (United States)

: Not controlled under the HCS (United States).

**U.S. Federal Regulations** 

: TSCA 8(b) inventory: All components listed.

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: No products were found.

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.

**SARA 313** 

Form R - Reporting

: No products were found.

Requirements

Supplier Notification : No products were found.

**State Regulations** :

California prop. 65: No products were found.

**EU Regulations** 

**Product Use** 

: Classification and labeling have been performed according to EU directives 67/548/EEC, 1999/45/EC

including amendments and the intended use.
- Industrial applications.

National regulations

Germany

**Ordinance on Combustible** 

Liquids

Hazard class for water

: 1

(GWK)

**United Kingdom (UK)** 

**VOC Content (Retail Use)** 

: Not applicable.

: Class: Omitted

**VOC Content (Industrial** 

: Contains 0 wt% VOC.

Use)

Japan Control Laws : Not applicable.

WHMIS (Canada) : Not controlled under WHMIS (Canada).

DSL/NDSL: All components listed.

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

### 16. Other information

US Label Requirements : USE WITH CARE.

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



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



**Europe Label** 

Japan Label : Not applicable.

WHMIS Label :

**HISTORY** 

 Date of printing
 : 2004-11-12.

 Date of issue
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Date of Previous Issue : No Previous Validation.

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Prepared by : Kemika XXI inc.

### **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.

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