# SAFETY DATA SHEET

# DNAgenotek™

Compliant SDS for GHS - Canada WHMIS 2015

Revision date 20-Jun-2022 Revision Number 1

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

**Product identifier** 

Product Name OMNIgene Gut OM-200, OMR-200, OM-2XX, OMR-2XX , OMD-200 - Stabilization of DNA

Safety Data Sheet

Other means of identification

Synonyms None

Recommended use of the chemical and restrictions on use

**Recommended use** For nucleic acid stabilization

Restrictions on use No information available

Details of the supplier of the safety data sheet

**Initial supplier identifier** 

DNA Genotek Inc., 500 Palladium Dr., Suite 3000, Ottawa, ON, Canada, K2V 1C2

Emergency telephone number

Emergency Telephone 1-866-813-6354

## **SECTION 2: Hazards identification**

Classification

Flammable liquids Category 3

Label elements

Warning

**Hazard statements** 

Flammable liquid and vapour



**Precautionary Statements - Prevention** 

Ground and bond container and receiving equipment Use non-sparking tools
Take action to prevent static discharges

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Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

Keep container tightly closed

Use explosion-proof electrical, ventilating, lighting and .? equipment

Wear protective gloves, protective clothing, eye protection and face protection

#### **Precautionary Statements - Response**

#### Skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]

#### Fire

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

#### **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep cool

#### **Precautionary Statements - Disposal**

Dispose of contents and container to an approved waste disposal plant

#### Other information

Causes mild skin irritation. Harmful to aquatic life.

# SECTION 3: Composition/information on ingredients

#### **Substance**

Not applicable.

#### <u>Mixture</u>

Chemical name	CAS No	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Ethanol	64-17-5	15-20	-	-
Sodium Hydroxide	1310-73-2	<1	-	-

## **SECTION 4: First aid measures**

## **Description of first aid measures**

**Inhalation** Remove to fresh air.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep

eye wide open while rinsing. Do not rub affected area.

**Skin contact** Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes.

**Ingestion** Rinse mouth.

**Self-protection of the first aider** Remove all sources of ignition. Ensure that medical personnel are aware of the material(s)

involved, take precautions to protect themselves and prevent spread of contamination. Use

personal protective equipment as required. See section 8 for more information.

## Most important symptoms and effects, both acute and delayed

**Symptoms** Prolonged contact may cause redness and irritation.

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Indication of any immediate medical attention and special treatment needed

## **SECTION 5: Firefighting measures**

Suitable Extinguishing Media Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media**Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the

chemical

Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

**Explosion data** 

Sensitivity to mechanical impact None.

Sensitivity to static discharge Yes.

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

# **SECTION 6: Accidental release measures**

Personal precautions, protective equipment and emergency procedures

Personal precautions Evacuate personnel to safe areas. Use personal protective equipment as required. See

section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the

product must be grounded. Do not touch or walk through spilled material.

**Other information** Ventilate the area.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Do not touch or walk through spilled material. A

vapour suppressing foam may be used to reduce vapours. Dyke far ahead of spill to collect run-off water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand

or other non-combustible material and transfer to containers for later disposal.

Methods for cleaning up

Take precautionary measures against static discharges. Dam up. Soak up with inert

absorbent material. Pick up and transfer to properly labelled containers.

## SECTION 7: Handling and storage

Precautions for safe handling

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vapours or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with

sprinklers. Use according to package label instructions.

#### Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from

heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labelled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national

regulations. Store in accordance with local regulations.

## SECTION 8: Exposure controls/personal protection

#### Control parameters

**Exposure Limits** 

Chemical name	Alberta	British Columbia	Ontario	Quebec
Ethanol	TWA: 1000 ppm	STEL: 1000 ppm	STEL: 1000 ppm	STEL: 1000 ppm
64-17-5	TWA: 1880 mg/m <sup>3</sup>			
Sodium Hydroxide 1310-73-2	Ceiling: 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>	CEV: 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>

#### Appropriate engineering controls

Engineering controls Showers

Eyewash stations Ventilation systems.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Tight sealing safety goggles.

**Hand protection** Wear suitable gloves. Impervious gloves.

**Skin and body protection** Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.

Antistatic boots.

exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Do not eat, drink or smoke when using this product. Contaminated work clothing should not

be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

## SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state Liquid

AppearanceNo information availableColourNo information availableOdourNo information availableOdour thresholdNo information available

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<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH= 10.9None knownMelting point / freezing pointNo data availableNone knownInitial boiling point and boilingNo data availableNone known

ange

Flash point = 24 °C / 75.2 °F None known
Evaporation rate No data available None known
Flammability No data available None known
Flammability Limit in Air None known

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

No data available None known Vapour pressure Relative vapour density No data available None known Relative density No data available None known No data available None known Water solubility Solubility in other solvents No data available None known **Partition coefficient** No data available None known **Autoignition temperature** No data available None known **Decomposition temperature** None known

Kinematic viscosityNo data availableNone knownDynamic viscosityNo data availableNone known

Other information

Explosive properties
Oxidising properties
No information available.
No information available.
No information available.
No information available

## SECTION 10: Stability and reactivity

## Reactivity

No information available.

**Chemical stability** 

Stable under normal conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to avoid

Heat, flames and sparks. **Incompatible materials** 

None known based on information supplied.

Hazardous decomposition products None known based on information supplied.

## SECTION 11: Toxicological information

Information on likely routes of exposure

**Product Information** 

**Inhalation** Specific test data for the substance or mixture is not available.

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**Eye contact** Specific test data for the substance or mixture is not available.

**Skin contact** Specific test data for the substance or mixture is not available. Causes mild skin irritation.

**Ingestion** Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** Prolonged contact may cause redness and irritation.

**Acute toxicity** 

**Numerical measures of toxicity** 

No information available

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 36,205.10 mg/kg ATEmix (inhalation-dust/mist) 599.50 mg/l

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ethanol	= 7060 mg/kg (Rat)	-	= 116.9 mg/L (Rat) 4 h
64-17-5			= 133.8 mg/L (Rat) 4 h
Sodium Hydroxide 1310-73-2	= 325 mg/kg (Rat)	= 1350 mg/kg ( Rabbit )	-

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation**Classification based on data available for ingredients. May cause skin irritation.

Serious eye damage/eye irritation No information available.

**Respiratory or skin sensitisation** No information available.

Germ cell mutagenicity No information available.

**Carcinogenicity** No information available.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Ethanol	A3	Group 1	Known	X
64-17-5				

Legend

**ACGIH (American Conference of Governmental Industrial Hygienists)** 

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

**NTP (National Toxicology Program)** 

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labour)

X - Present

Reproductive toxicity No information available.

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**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

## **SECTION 12: Ecological information**

**Ecotoxicity** Harmful to aquatic life.

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Ethanol	-	LC50: 12.0 - 16.0mL/L	-	LC50: 9268 - 14221mg/L
64-17-5		(96h, Oncorhynchus		(48h, Daphnia magna)
		mykiss)		EC50: =2mg/L (48h,
		LC50: >100mg/L (96h,		Daphnia magna)
		Pimephales promelas)		_
		LC50: 13400 -		
		15100mg/L (96h,		
		Pimephales promelas)		
Sodium Hydroxide	-	LC50: =45.4mg/L (96h,	-	-
1310-73-2		Oncorhynchus mykiss)		

Persistence and degradability No information available.

### Bioaccumulation

**Component Information** 

Chemical name	Partition coefficient
Ethanol	-0.32
64-17-5	

Other adverse effects No information available.

# **SECTION 13: Disposal considerations**

### **Disposal methods**

Waste from residues/unused

products

Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging

Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

# **SECTION 14: Transport information**

TDG Not regulated

**DOT** Not regulated

UN number or ID number UN 1824 Packing group

## **SECTION 15: Regulatory information**

Safety, health and environmental regulations/legislation specific for the substance or mixture

#### **International Regulations**

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories

Contact supplier for inventory compliance status. **TSCA DSL/NDSL** Contact supplier for inventory compliance status. **EINECS/ELINCS** Contact supplier for inventory compliance status. Contact supplier for inventory compliance status. **ENCS IECSC** Contact supplier for inventory compliance status. Contact supplier for inventory compliance status. **KECL PICCS** Contact supplier for inventory compliance status. AIIC Contact supplier for inventory compliance status.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

AIIC - Australian Inventory of Industrial Chemicals

## **SECTION 16: Other information**

NFPAHealth hazards0Flammability3Instability0Special hazards-HMISHealth hazards2Flammability3Physical hazards0Personal protectionX

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: Exposure controls/personal protection

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

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U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)

Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme

Organisation for Economic Co-operation and Development Screening Information Data Set

World Health Organization

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**Revision Note**No information available.

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**End of Safety Data Sheet**