

# **SAFETY DATA SHEET**

This safety data sheet was created pursuant to the requirements of: OSHA & GHS - Canada WHMIS 2015

Issuing Date 21-Mar-2023 Revision date 27-Mar-2023 Revision Number 1

1. Identification

Product identifier

Product Name OGD-500.001.100

Other means of identification

Product Code(s) PD-MSDS-00077

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

**Supplier Address** 

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

1C2

**Manufacturer Address** 

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

Emergency telephone number

Emergency Telephone +1 613-723-5757

# 2. Hazard(s) identification

Classification

Flammable liquids Category 3

Appearance aqueous solution Label elements

Physical state Liquid

Odor No information available

Danger

**Hazard statements** 

Flammable liquid and vapor



**Precautionary Statements - Prevention** 

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

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

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

Keep container tightly closed

Ground and bond container and receiving equipment

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

Use only non-sparking tools

Take precautionary measures against static discharge

### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

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

Fire

In case of fire: Use CO2, dry chemical, or foam to extinguish

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

Store locked up

Store in a well-ventilated place. Keep cool

# **Precautionary Statements - Disposal**

Dispose of contents and container to an approved waste disposal plant

# Other information

Harmful to aquatic life with long lasting effects. Harmful to aquatic life.

# 3. Composition/information on ingredients

#### Substance

Not applicable.

### Mixture

Chemical name	CAS No	Weight-%	Information Review	Date HMIRA filed and date exemption granted (if applicable)
Ethanol	64-17-5	10-30	-	-
Sodium Acetate Trihydrate	6131-90-4	3-7	-	-
Sodium dodecyl sulfate	151-21-3	0.1-1	-	-

# 4. First-aid measures

# **Description of first aid measures**

IF exposed or concerned: Get medical advice/attention. General advice

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.

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

and shoes.

Rinse mouth. Ingestion

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** No information available.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Note to physicians

# 5. Fire-fighting 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

Special protective equipment and precautions for fire-fighters

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

Use personal protection equipment.

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

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

> 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. Refer to protective measures listed in Sections 7 and 8.

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 vapor

> suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff 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.

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

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

# 7. Handling and storage

Precautions for safe handling

Advice on safe handling Use personal protection equipment. Avoid breathing vapors 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. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing.

# 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 labeled 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.

# 8. Exposure controls/personal protection

### Control parameters **Exposure Limits**

Chemical name		ACGIH T	LV	0:	SHA PEL		NIOSH
Ethanol		STEL: 1000 ppm		TWA: 1000 ppm			IDLH: 3300 ppm
64-17-5			TWA: 1900 mg		1900 mg/m <sup>3</sup>		TWA: 1000 ppm
				(vacated)	TWA: 1000 ppm		TWA: 1900 mg/m <sup>3</sup>
				(vacated) 7	ΓWA: 1900 mg/m <sup>3</sup>		-
Chemical name		Alberta	British C	Columbia	Ontario		Quebec
Ethanol	Т	WA: 1000 ppm	STEL: 1	000 ppm	STEL: 1000 pp	m	STEL: 1000 ppm
64-17-5	TV	VA: 1880 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.

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

Antistatic boots.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

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.

# 9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state Liquid

**Appearance** aqueous solution

Color colorless

Odor No information available No information available **Odor threshold** 

**Property Values** Remarks • Method

9.6 - 9.8 None known pН Melting point / freezing point No data available None known Initial boiling point and boiling rangeNo data available None known = 26 °C / 78.8 °F None known Flash point **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

Vapor pressure No data available None known Relative vapor density No data available None known Relative density No data available None known No data available Water solubility None known No data available None known Solubility in other solvents No data available None known **Partition coefficient** 248 °C / 478.4 °F None known **Autoignition temperature Decomposition temperature** No data available None known Kinematic viscosity No data available None known **Dynamic viscosity** No data available None known

Other information

**Explosive properties** No information available No information available **Oxidizing properties** Softening point No information available No information available Molecular weight **VOC Content (%)** No information available **Liquid Density** No information available **Bulk density** No information available

# 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.

None known based on information supplied. Incompatible materials

Hazardous decomposition products None known based on information supplied.

# 11. Toxicological information

Information on likely routes of exposure

**Product Information** 

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

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.

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

Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available.

**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) 18,031.70 mg/kg ATEmix (dermal) 13,430.90 mg/kg 48.40 mg/l ATEmix (inhalation-dust/mist)

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 Acetate Trihydrate 6131-90-4	= 3530 mg/kg (Rat)	> 10 g/kg(Rabbit)	> 30 g/m <sup>3</sup> (Rat) 1 h
Sodium dodecyl sulfate 151-21-3	= 1288 mg/kg (Rat)	= 200 mg/kg (Rabbit)	> 3900 mg/m³ (Rat) 1 h

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

Skin corrosion/irritation No information available.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity Contains a known or suspected carcinogen. Classification based on data available for

ingredients. May cause cancer.

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 Labor)

X - Present

Reproductive toxicity No information available.

STOT - single exposure No information available.

No information available. STOT - repeated exposure

Target organ effects Liver, Respiratory system, Eyes, Skin, Central nervous system, Blood, Reproductive

system.

Aspiration hazard No information available.

# 12. Ecological information

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Ethanol 64-17-5	-	LC50: 12.0 - 16.0mL/L (96h, Oncorhynchus mykiss) LC50: >100mg/L (96h, Pimephales promelas) LC50: 13400 - 15100mg/L (96h, Pimephales promelas)	-	LC50: 9268 - 14221mg/L (48h, Daphnia magna) EC50: =2mg/L (48h, Daphnia magna)
Sodium Acetate Trihydrate 6131-90-4	-	LC50: >100mg/L (96h, Danio rerio)	-	EC50: >1000mg/L (48h, Daphnia magna)
Sodium dodecyl sulfate 151-21-3	EC50: =53mg/L (72h, Desmodesmus subspicatus) EC50: 30 - 100mg/L (96h, Desmodesmus subspicatus) EC50: =117mg/L (96h, Pseudokirchneriella subcapitata) EC50: 3.59 - 15.6mg/L (96h, Pseudokirchneriella subcapitata)	LC50: 22.1 - 22.8mg/L (96h, Pimephales promelas) LC50: 4.3 - 8.5mg/L (96h, Oncorhynchus mykiss) LC50: =4.62mg/L (96h,		EC50: =1.8mg/L (48h, Daphnia magna)

Persistence and degradability No information available.

**Bioaccumulation** 

**Component Information** 

Chemical name	Partition coefficient	
Ethanol	-0.35	
64-17-5		
Sodium dodecyl sulfate	1.6	
151-21-3		

**Mobility in soil** No information available.

Other adverse effects No information available.

# 13. Disposal considerations

**Disposal methods** 

Waste from residues/unused Should not be released into the environment. Dispose of in accordance with local

products 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.

California waste information This product contains one or more substances that are listed with the State of California as

a hazardous waste.

# 14. Transport information

**DOT** Not regulated

# 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** 

TSCA Contact supplier for inventory compliance status.

DSL/NDSL Contact supplier for inventory compliance status.

EINECS/ELINCS Contact supplier for inventory compliance status.

ENCS Contact supplier for inventory compliance status.

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IECSCContact supplier for inventory compliance status.KECLContact supplier for inventory compliance status.PICCSContact supplier for inventory compliance status.AllCContact 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

### **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

# **US State Regulations**

#### **California Proposition 65**

This product contains the following Proposition 65 chemicals:.

Chemical name	California Proposition 65	
Ethanol - 64-17-5	Carcinogen	
	Developmental	

### U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
RO/DI Water 7732-18-5	-	-	Х
Ethanol 64-17-5	X	X	X
Sodium Hydroxide 1310-73-2	X	X	Х

### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

# 16. Other information

NFPA Health hazards 1 Flammability 3 Instability 0 Special hazards -**HMIS** Health hazards \* 2 Flammability 3 Physical hazards 0 Personal protection X

Chronic Hazard Star Legend \* = Chronic Health Hazard

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

Legend Section 8: Exposure controls/personal protection

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

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

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)

Australia 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)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

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

World Health Organization

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No information available. **Revision Note** 

**Disclaimer** 

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**End of Safety Data Sheet**