

Revision date 20-Jun-2022

# SAFETY DATA SHEET

Revision Number 1

1. Identification		
Product identifier		
Product Name	Liquefaction Reagent: OM-LQR-400; OM-LQR-1600	
Other means of identification		
Product Code(s)	PD-MSDS-00149	
Synonyms	None	
Recommended use of the chemical and restrictions on use		
Recommended use	Laboratory chemicals	
Restrictions on use	No information available	
Details of the supplier of the safety	data sheet	
Initial supplier identifierSupplier AddressDNA Genotek Inc., 500 Palladium Dr.,DNA Genotek Inc., 500 Palladium Dr.,DNA Genotek Inc., 500 Palladium Dr.,Suite 3000, Ottawa, ON, Canada, K2VDNA Genotek Inc., 500 Palladium Dr.,Suite 3000, Ottawa, ON, Canada, K2V 1C21C2		
Emergency telephone number		
Initial supplier phone number	+1 613-723-5757	
24 Hour Emergency Phone Number	1-866-813-6354	
Emergency Telephone	No information available	
Restrictions on emergency number	Emergency number office hours only	

# 2. Hazard(s) identification

#### **Classification**

This product is not considered hazardous by either the US 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) or the Canadian Workplace Hazardous Material Information System (WHMIS 2015)

#### **Emergency Overview**

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Appearance No information available	Physical state Liquid	Odor No information available
Label elements		

#### **Hazard statements**

This product is not considered hazardous by either the US 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) or the Canadian Workplace Hazardous Material Information System (WHMIS 2015)

#### Other information

May be harmful in contact with skin. Harmful to aquatic life.

# 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)
Ammonium Sulfate	7783-20-2	30-60	-	-

# 4. First-aid measures

### **Description of first aid measures**

Inhalation	Remove to fresh air.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact	Wash skin with soap and water.
Ingestion	Rinse mouth.
Most important symptoms and effect	ets, both acute and delayed
Symptoms	No information available.
Indication of any immediate medical	attention and special treatment needed
Note to physicians	Treat symptomatically.
5. Fire-fighting measures	
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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	No information available.
Explosion data Sensitivity to mechanical impact Sensitivity to static discharge	t None. None.
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

Personal precautions	Ensure adequate ventilation.
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Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Pick up and transfer to properly labeled containers.

7. Handling and storage				
Precautions for safe handling				
Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice.			
Conditions for safe storage, including any incompatibilities				
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place.			

### 8. Exposure controls/personal protection

# Control parameters This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

#### Appropriate engineering controls

Engineering controls	Showers Eyewash stations Ventilation systems. <b>ch as personal protective equipment</b>
individual protection measures, su	ch as personal protective equipment
Eye/face protection	No special protective equipment required.
Hand protection	No special protective equipment required.
Skin and body protection	No special protective equipment required.
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	Handle in accordance with good industrial hygiene and safety practice.

# 9. Physical and chemical properties

Information on basic physical and of Physical state Appearance Color Odor Odor Odor threshold	chemical properties Liquid No information available No information available No information available No information available	
Property_	Values	Remarks • Method
рН	= 5.5	None known
Melting point / freezing point	No data available	None known
Initial boiling point and boiling	No data available	None known
range		
Flash point	> 94 °C / 201.2 °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 limits	No data available	
Lower flammability or explosive	No data available	
limits Vener processo	No data available	None known
Vapor pressure	No data available	None known
Relative vapor density	No data available	None known
Relative density	No data available	None known
Water solubility Solubility in other solvents	No data available	None known
Partition coefficient	No data available	None known
	No data available	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
Dynamic viscosity		
Other information Explosive properties Oxidizing properties	No information available No information available	
Softening point Molecular weight	No information available No information available	
Molecular weight VOC Content (%)	No information available	
Liquid Density	No information available	
Bulk density	No information available	
Durk delibity		

# 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	None known based on information supplied.	
Incompatible materials	None known based on information supplied.	
Hazardous decomposition products None known based on information supplied.		

# 11. Toxicological information

Information on likely routes of exposure

7783-20-2

Inhalation	Specific test data for the se	ubstance or mixture is not availa	ble.
Eye contact	Specific test data for the se	ubstance or mixture is not availa	ble.
Skin contact	May be harmful in contact	with skin.	
Ingestion	Specific test data for the s	ubstance or mixture is not availa	ble.
Symptoms related to the physi	cal, chemical and toxicological	I characteristics	
Symptoms	No information available.		
Acute toxicity			
Numerical measures of toxicity No information available	/		
The following values are calcu ATEmix (oral) ATEmix (dermal)	lated based on chapter 3.1 of th 6,977.90 mg/kg 4,914.00 mg/kg	he GHS document	
Component Information			
Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ammonium Sulfate	= 2840 mg/kg (Rat)	> 2000 mg/kg (Rat)	

# 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	No information available.
Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration hazard	No information available.
12. Ecological information	

#### Ecotoxicity

Harmful to aquatic life.

Chemical name Algae/aq	uatic plants Fish	Toxicity to microorganisms	Crustacea
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Ammonium Sulfate	- LC50: =250mg/L (96h, -	LC50: =14mg/L (48h,
7783-20-2	Brachydanio rerio)	Daphnia magna)
	LC50: =480mg/L (96h,	
	Brachydanio rerio)	
	LC50: =420mg/L (96h,	
	Brachydanio rerio)	
	LC50: =18mg/L (96h,	
	Cyprinus carpio)	
	LC50: 32.2 - 41.9mg/L	
	(96h, Oncorhynchus	
	mykiss)	
	LC50: 5.2 - 8.2mg/L (96h,	
	Oncorhynchus mykiss)	
	LC50: >100mg/L (96h,	
	Pimephales promelas)	
	LC50: 123 - 128mg/L	
	(96h, Poecilia reticulata)	
	LC50: =126mg/L (96h,	
	Poecilia reticulata)	

Persistence and degradability

No information available.

#### **Bioaccumulation**

#### **Component Information**

Chemical name		Partition coefficient	
Ammonium Sulfate 7783-20-2		-5.1	
Mobility in soil	No information available.		
Other adverse effects	No information available.		

# 13. Disposal considerations

Disposal methods	
Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.

# 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.

EINECS/ELINCSCENCSCIECSCCKECLCPICCSC	contact supplier for inventory compliance status. contact supplier for inventory compliance status.
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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 contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	SARA 313 - Threshold Values %	
Ammonium Sulfate - 7783-20-2	1.0	

#### 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 does not contain any Proposition 65 chemicals.

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

Chemical name	New Jersey	Massachusetts	Pennsylvania
RO/DI Water	-	-	Х
7732-18-5			
Ammonium Sulfate	-	X	Х
7783-20-2			

#### U.S. EPA Label Information

#### EPA Pesticide Registration Number Not applicable

16. Other information				
<u>NFPA</u> HMIS	Health hazards 0 Health hazards 0	Flammability 1 Flammability 1	Instability 0 Physical hazards 0	Special hazards - Personal protection X
Key or legend to abbro	eviations and acronyms u	used in the safety dat	a sheet	
TWA TW	osure controls/personal pro A (time-weighted average) kimum limit value	otectionSTEL *	STEL (Short Terr Skin designation	n Exposure Limit)
Agency for Toxic Subst U.S. Environmental Pro European Food Safety EPA (Environmental Pro Acute Exposure Guideli U.S. Environmental Pro U.S. Environmental Pro Food Research Journal Hazardous Substance I International Uniform C National Institute of Teo Australia National Indus NIOSH (National Institu National Library of Med National Library of Med National Toxicology Pro New Zealand's Chemica Organization for Econol	otection Agency) ine Level(s) (AEGL(s)) tection Agency Federal Insu- tection Agency Federal Insu- tection Agency High Product Database hemical Information Database hemical Information Database theology and Evaluation (NI strial Chemicals Notification te for Occupational Safety a icine's ChemID Plus (NLM of icine's PubMed database (N ogram (NTP) al Classification and Information mic Co-operation and Deve mic Co-operation and Deve	y (ATSDR) Database ecticide, Fungicide, an ction Volume Chemica ase (IUCLID) ITE) and Assessment Sche and Health) CIP) NLM PUBMED) ation Database (CCID) elopment Environment, elopment High Producti	d Rodenticide Act ls eme (NICNAS) Health, and Safety Publicatio on Volume Chemicals Progra	
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	ded in this Safety Data Sh		pest of our knowledge, infor juidance for safe handling,	

date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet