

# SAFETY DATA SHEET

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

Issuing Date 16-May-2023	Revision date 16-May-2023	<b>Revision Number</b> 2		
1. Identification				
Product identifier				
Product Name	Reagent AG			
Other means of identification				
Product Code(s)	PD-MSDS-00101			
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 identifier DNA Genotek Inc., 500 Palladium I Suite 3000, Ottawa, ON, Canada, I 1C2		N, Canada, K2V 1C2		
Emergency telephone number				
Initial supplier phone number	+1 613-723-5757			
Emergency Telephone	1-866-813-6354			

## 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).

Appearance aqueous solution Label elements	Physical state Liquid	Odor Odorless
Hazard statements		

### 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

No information available.

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

### 3. Composition/information on ingredients

#### Substance

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

Chemical name	CAS No	Weight-%	Information Review	Date HMIRA filed and date exemption granted (if applicable)
Ammonium Chloride	12125-02-9	1-5	-	-

### 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 effects, 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 impac 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.

#### 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 Exposure Limits

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

Chemical name	ACGIH TLV		OSHA PEL		NIOSH	
Ammonium Chloride 12125-02-9	STEL: 20 mg/n TWA: 10 mg/m			TWA: 10 mg/m <sup>3</sup> fume STEL: 20 mg/m <sup>3</sup> fume		WA: 10 mg/m³ fume TEL: 20 mg/m³ fume
Chemical name	Alberta	British C	Columbia	Ontario		Quebec
Ammonium Chloride 12125-02-9	WA: 10 mg/m <sup>3</sup> TEL: 20 mg/m <sup>3</sup>		0 mg/m <sup>3</sup> 0 mg/m <sup>3</sup>	TWA: 10 mg/m STEL: 20 mg/n		TWA: 10 mg/m <sup>3</sup> STEL: 20 mg/m <sup>3</sup>

### Appropriate engineering controls

Engineering controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, suc	ch as personal protective equipment
Eye/face protection	No special protective equipment required.
Hand protection	No special protective equipment required.
Skin and body protection Respiratory protection	No special protective equipment required. 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.

Information on basic physical and o	hemical properties	
Physical state	Liquid	
Appearance	aqueous solution	
Color	colorless	
Odor	Odorless	
Odor threshold	No information available	
<b>D</b>	M.L.	
Property	<u>Values</u> 6.7 - 7.1	Remarks • Method
pH Malting point (freezing point		None known
Melting point / freezing point	No data available	None known
Initial boiling point and boiling rang		None known
Flash point	> 95 °C	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		
Vapor pressure	No data available	None known
Relative vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	No data available	None known
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	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	
Oxidizing properties	No information available	
Softening point	No information available	
Molecular weight	No information available	
VOC Content (%)	No information available	
Liquid Density	No information available	

### 10. Stability and reactivity

Bulk density

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.

No information available

Hazardous decomposition products None known based on information supplied.

### 11. Toxicological information

### Information on likely routes of exposure

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.
Ingestion	Specific test data for the substance or mixture is not available.
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 documentATEmix (oral)49,742.90 mg/kgATEmix (dermal)52,980.10 mg/kg

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ammonium Chloride 12125-02-9	= 1650 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	

### 12. Ecological information

Ecotoxicity

The environmental impact of this product has not been fully investigated.

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Ammonium Chloride	-	LC50: =209mg/L (96h,	-	-
12125-02-9		Cyprinus carpio)		

Persistence and degradability	No information available.
Bioaccumulation	There is no data for this product.
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
TDG	Not regulated
IATA	Not regulated
IMDG	Not regulated
100	
ADR	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.
IECSC	Contact supplier for inventory compliance status.
KECL	Contact supplier for inventory compliance status.
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

### 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.

Chemical name	SARA 313 - Threshold Values %	
Ammonium Chloride - 12125-02-9	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).

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Ammonium Chloride 12125-02-9	5000 lb	-	-	Х

#### <u>CERCLA</u>

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.

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	Reportable Quantity (RQ)
Ammonium Chloride 12125-02-9	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ

#### US State Regulations

#### California Proposition 65

This product does not contain any Proposition 65 chemicals.

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

This product does not contain any substances regulated under applicable state right-to-know regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Water 7732-18-5	-	-	Х
Ammonium Chloride 12125-02-9	Х	Х	Х
Sodium Hydroxide 1310-73-2	Х	Х	Х

### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other	information	
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NFPA Health haz		nability 0 nability 0	Instability 0 Physical hazards 0	Special hazards - Personal protection X
Key or legend to abbreviations and	acronyms used in t	he safety data s	heet	
Legend Section 8: Exposure controls TWA TWA (time-weight Ceiling Maximum limit val <b>Key literature references and source</b> Agency for Toxic Substances and Dis U.S. Environmental Protection Agency European Food Safety Authority (EFS EPA (Environmental Protection Agency Acute Exposure Guideline Level(s) (A U.S. Environmental Protection Agency U.S. Environmental Protection Agency Sector Agency Cod Research Journal Hazardous Substance Database International Uniform Chemical Inform National Institute of Technology and E Australia National Industrial Chemical NIOSH (National Institute for Occupat National Library of Medicine's Chemical NIOSH (National Institute for Occupat National Library of Medicine's PubMer National Toxicology Program (NTP) New Zealand's Chemical Classificatio Organization for Economic Co-operation Organization for Economic Co-operation World Health Organization	ed average) lue ces for data used to ease Registry (ATSD y ChemView Databas SA) cy) EGL(s)) y Federal Insecticide, y High Production Vol nation Database (IUCI evaluation (NITE) Is Notification and Ass tional Safety and Hea D Plus (NLM CIP) d database (NLM PUI on and Information Da ion and Development ion and Development	R) e Fungicide, and F ume Chemicals LID) esssment Schem Ith) BMED) tabase (CCID) Environment, He High Production	Skin designatio S Rodenticide Act e (NICNAS) ealth, and Safety Publicat Volume Chemicals Prog	tions
Issuing Date	16-May-2023			
Revision date	16-May-2023			
Revision Note	No information avai	lable.		

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the 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