SAFETY DATA SHEET



1. Identification

Product identifier	GRD Pathogen Wash Buffer
Other means of identification	
Product code	G210224
Recommended use	Research use only (RUO) for nucleic acid extraction process.
Recommended restrictions	Not for use in clinical or in vitro diagnostics.
Manufacturer/Importer/Supplier/	Distributor information
Company name	GRD Diagnostics
Address	200 Enterprise Drive
	Pekin, IL 61554
	USA
Website	www.redituslabs.com
Fax	(469) 498-0223
Telephone	(866) 736-0002
Emergency telephone	800-451-8346 (24 hours)
	Account number: 17687

2. Hazard(s) identification

Label elements

Physical hazards	Flammable liquids	Category 2
Health hazards	Skin corrosion/irritation	Category 1C
	Serious eye damage/eye irritation	Category 1
OSHA defined hazards	Not classified.	

Signal word	Danger
Hazard statement	Highly flammable liquid and vapor. Causes severe skin burns and eye damage.
Precautionary statement	
Prevention	Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist/vapors. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.
Response	If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center/doctor. In case of fire: Use water fog, alcohol resistant foam, dry chemical powder, carbon dioxide to extinguish.
Storage	Store in a well-ventilated place. Keep cool. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	Contact with acids liberates very toxic gas. Corrosive to the respiratory tract.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

Chemical name	CA	AS number	%
Ethanol		64-17-5	60 - 70
Guanidinium thiocyanate		593-84-0	21 - 30
EDTA		60-00-4	2 - 9
Composition comments	The exact percentage (concentration) of composition has	s been withheld as	a trade secret.
	All concentrations are in percent by weight. Components below reportable limits.	s not listed are eithe	er non-hazardous or are
4. First-aid measures			
Inhalation	Remove person to fresh air and keep at rest in a positior respiratory symptoms call a POISON CENTER or doctor		eathing. If experiencing
Skin contact	Take off immediately all contaminated clothing. Rinse sk poison control center immediately. Chemical burns must	be treated by a ph	ysician.
Eye contact	Immediately flush eyes with plenty of water for at least 1 present and easy to do. Continue rinsing. Call a physicia		
Ingestion	Call a physician or poison control center immediately. Ri vomiting occurs, keep head low so that stomach content		
Most important symptoms/effects, acute and delayed	Burning pain and severe corrosive skin damage. Causes include stinging, tearing, redness, swelling, and blurred v blindness could result. Causes respiratory tract burns. C	vision. Permanent e	eye damage including
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptom with water immediately. While flushing, remove clothes v an ambulance. Continue flushing during transport to hos Symptoms may be delayed.	which do not adhere	e to affected area. Call
General information	Ensure that medical personnel are aware of the material protect themselves. Wash contaminated clothing before		ke precautions to
5. Fire-fighting measures			
Suitable extinguishing media	Water fog. Alcohol resistant foam. Dry chemical powder.	Carbon dioxide (C	O2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will sprea	ad the fire.	
Specific hazards arising from the chemical	Vapors may form explosive mixtures with air. Vapors ma of ignition and flash back. During fire, gases hazardous t		
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clo	othing must be wor	n in case of fire.
Fire fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. Me without risk. Prevent runoff from fire control or dilution fro water supply.		• • • • • •
Specific methods	Use standard firefighting procedures and consider the ha	azards of other invo	olved materials.
General fire hazards	Highly flammable liquid and vapor.		
6. Accidental release meas	sures		
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away f ignition sources (no smoking, flares, sparks, or flames in protective equipment and clothing during clean-up. Do no on skin, on clothing. Do not touch damaged containers of appropriate protective clothing. Ventilate closed spaces I should be advised if significant spillages cannot be conta 8 of the SDS.	i immediate area). ¹ ot breathe mist/vap or spilled material u before entering the	Wear appropriate oors. Do not get in eyes, nless wearing m. Local authorities
Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks combustibles (wood, paper, oil, etc.) away from spilled m against static discharge. Use only non-sparking tools. Pr Prevent contact with bleach and acids.	naterial. Take preca	autionary measures
	Stop the flow of material, if this is without risk. Use a non sand or earth to soak up the product and place into a con absorbent material. Clean surface thoroughly to remove recovery, flush area with water. Retain and dispose of co to acid-containing sewer.	ntainer for later dis residual contamina	posal. Wipe up with ation. Following product
	Never return spills to original containers for re-use. For w	vaste disposal, see	section 13 of the SDS.

Environmental precautions	Avoid release to the environment. Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist/vapors. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. When using, do not eat, drink or smoke. Avoid prolonged exposure. Wear appropriate personal protective equipment (See Section 8). Wash hands thoroughly after handling. Prevent contact with bleach and acids. Avoid release to the environment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Do not store in unlabelled containers. Recommended storage temperature: $(59 - 77^{\circ}F) / (15 - 25^{\circ}C)$. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) Components Type Value Ethanol (CAS 64-17-5) PEL 1900 mg/m3 1000 ppm **US. ACGIH Threshold Limit Values** Components Type Value Ethanol (CAS 64-17-5) STEL 1000 ppm US. NIOSH: Pocket Guide to Chemical Hazards Components Value Type Ethanol (CAS 64-17-5) TWA 1900 mg/m3 1000 ppm No biological exposure limits noted for the ingredient(s). **Biological limit values** Explosion-proof general and local exhaust ventilation. Good general ventilation should be used. Appropriate engineering Ventilation rates should be matched to conditions. If applicable, use process enclosures, local controls exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. Eye wash facilities and emergency shower must be available when handling this product. Individual protection measures, such as personal protective equipment Eye/face protection Wear tight fitting goggles and face shield. Skin protection Wear appropriate chemical resistant gloves. Disposable vinyl gloves are recommended. Other Hand protection suitable gloves can be recommended by the glove supplier. Skin protection Other Wear lab coat or other protective garments. If engineering controls do not maintain airborne concentrations below recommended exposure **Respiratory protection** limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. If respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134. Appropriate respirator selection should be made by a qualified professional. Wear appropriate thermal protective clothing, when necessary. **Thermal hazards** When using do not smoke. Keep away from food and drink. Always observe good personal **General hygiene** hygiene measures, such as washing after handling the material and before eating, drinking, and/or considerations smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state	Liquid.		
Form	Liquid.		
ODD Dath a way March Duffer			

Color	Not available.
Odor	Not available.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	172.4 °F (78 °C) (Ethanol)
Flash point	69.8 °F (21.0 °C)
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not applicable.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
10. Stability and reactivity	

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Contact with acids or bleach liberates toxic gases.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Protect against direct sunlight. Contact with incompatible materials.
Incompatible materials	Acids. Bleach. Strong oxidizing agents.
Hazardous decomposition products	Thermal decomposition or combustion may liberate toxic and/or corrosive gases or fumes. Carbon oxides. Nitrogen oxides. Sulfur oxides. Hydrogen cyanide.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Causes respiratory tract burns.
Skin contact	Causes severe skin burns.
Eye contact	Causes serious eye damage.
Ingestion	Causes digestive tract burns. May be harmful if swallowed.
Symptoms related to the physical, chemical and toxicological characteristics	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Causes respiratory tract burns. Causes digestive tract burns.
Information on toxicological eff	fects

In

Acute toxicity

May be harmful if swallowed.

Components	Species	Test Results
EDTA (CAS 60-00-4)		
Acute		
Oral		<i>"</i>
LD50	Rat	> 2000 mg/kg
Ethanol (CAS 64-17-5)		
<u>Acute</u>		
Dermal LD50	Rat	> 2000 mg/kg
Inhalation	Nat	2000 mg/kg
Vapor		
LC50	Mouse	39 g/m3, 4 Hours
Oral		<u>-</u> ,,
LD50	Rat	7000 - 11000 mg/kg
Guanidinium thiocyanate (CAS 5	93-84-0)	
Acute		
Oral		
LD50	Rat	593 mg/kg
Skin corrosion/irritation	Causes severe skin burns.	
Serious eye damage/eye irritation	Causes serious eye damage.	
Respiratory or skin sensitizatio	on	
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	This product is not expected to ca	use skin sensitization.
Germ cell mutagenicity	No data available to indicate prod mutagenic or genotoxic.	uct or any components present at greater than 0.1% are
Carcinogenicity	Not classifiable as to carcinogenic	ity to humans.
IARC Monographs. Overall Not listed. NTP Report on Carcinoger	Evaluation of Carcinogenicity	
	ed Substances (29 CFR 1910.1001	1053)
Not listed.		
Reproductive toxicity		use reproductive or developmental effects.
Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Does not meet classification criter	ia.
Chronic effects	Prolonged inhalation may be harn	nful.
12. Ecological informatio		
Ecotoxicity		nvironmentally hazardous. However, this does not exclude the bills can have a harmful or damaging effect on the environment
Components	Species	Test Results
EDTA (CAS 60-00-4)		
Aquatic		
Crustacea Fish	EC50 Daphnia magna	480 mg/l, 24 hours
	LC50 Fathead minnow (Pimephales promelas) 59.8 mg/l, 96 hours

Components		Species	Test Results
Ethanol (CAS 64-17-5)			
Aquatic			
Acute			
Crustacea	LC50	Ceriodaphnia dubia	5012 mg/l, 48 hours
		Daphnia magna	454 mg/l, 11 days
Fish	LC50	Pimephales promelas	13480 mg/l, 96 hours
Chronic			
Crustacea	NOEC	Ceriodaphnia dubia	9.6 mg/l, 10 days
Guanidinium thiocyanate (CA	S 593-84-0)		
Aquatic			
Acute			
Crustacea	EC50	Daphnia magna	42.4 mg/l, 48 hours
Persistence and degradability	No data is av	ailable on the degradability of this product.	
Bioaccumulative potential			
Partition coefficient n-octan	ol / water (log	-	
Ethanol (CAS 64-17-5)	No doto ovoil	-0.31	
Mobility in soil		able for this product.	have a shotesharriad around evention
Other adverse effects		contains volatile organic compounds which product may affect the acidity (pH-factor) isms.	
13. Disposal consideration	ns		
Disposal instructions	Collect and re	eclaim or dispose in sealed containers at lie	censed waste disposal site. Incinerate the
	material unde containers. If	r controlled conditions in an approved inci discarded, this product is considered a RC ainer in accordance with local/regional/nat	nerator. Do not incinerate sealed CRA ignitable waste, D001. Dispose of
Local disposal regulations	Dispose in ac	cordance with all applicable regulations.	
Hazardous waste code	D002: Corros	de should be assigned in discussion betwe	
Waste from residues / unused products		accordance with local regulations. Empty uses. This material and its container must b ructions).	
Contaminated packaging		d containers may retain product residue, fo oty containers should be taken to an appro	Ilow label warnings even after container is ved waste handling site for recycling or
14. Transport information			
DOT			
UN number	UN2924		
UN proper shipping name	Flammable lic	quids, corrosive, n.o.s. (Ethanol; Guanidini	um thiocyanate)
Transport hazard class(es)	2		
Class Subsidiary risk	3 8		
Label(s)	3, 8		
Packing group	II		
Environmental hazards			
Marine pollutant	No - Deed opfatuli	estructions CDC and	na hafara harallina
Special precautions for use Special provisions	r Read safety I IB2, T11, TP2	nstructions, SDS and emergency procedur TP27	es before nangling.
Packaging exceptions	150	-, ''	
Deckering nen hulk	202		

Packaging non bulk Packaging bulk 243 ΙΑΤΑ UN number UN2924 UN proper shipping name Flammable liquid, corrosive, n.o.s. (Ethanol; Guanidinium thiocyanate)

202

Transport hazard class(es)	
Class	3
Subsidiary risk	8
Packing group	II
Environmental hazards	No
ERG Code	3CH
	 Read safety instructions, SDS and emergency procedures before handling.
IMDG	
UN number	UN2924
UN proper shipping name	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Ethanol; Guanidinium thiocyanate)
Transport hazard class(es)	
Class	3
Subsidiary risk	8
Packing group	II
Environmental hazards	
Marine pollutant	No
EmS	F-E, S-C
	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and	Not established.
the IBC Code	
15. Regulatory information	
US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication
	Standard, 29 CFR 1910.1200.
TSCA Section 12(b) Exp	ort Notification (40 CFR 707, Subpt. D)
Not regulated.	
CERCLA Hazardous Su	ostance List (40 CFR 302.4)
EDTA (CAS 60-00-4)	Listed.
SARA 304 Emergency re	elease notification
SARA 304 Emergency re Not regulated.	elease notification
Not regulated.	elease notification lated Substances (29 CFR 1910.1001-1053)
Not regulated.	
Not regulated. OSHA Specifically Regu Not listed.	lated Substances (29 CFR 1910.1001-1053)
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US state regulations

US. Massachusetts RTK - Substance List

EDTA (CAS 60-00-4) Ethanol (CAS 64-17-5)

US. New Jersey Worker and Community Right-to-Know Act

EDTA (CAS 60-00-4)

Ethanol (CAS 64-17-5)

US. Pennsylvania Worker and Community Right-to-Know Law

EDTA (CAS 60-00-4) Ethanol (CAS 64-17-5)

US. Rhode Island RTK

Ethanol (CAS 64-17-5)

California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

04-May-2021

Issue date
Revision date
Version #
NFPA ratings

Disclaimer

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