

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product name: Product number: Global material number: Business area: Product line: Instrument type: Supplier: Roche Diagnostics Corporation 9115 Hague Road Indianapolis, IN 46250 Site Phone Number: 1-800-428-5074 BUN/ Urea 1929488 11929488216 Centralized Diagnostics Roche/Hitachi Not applicable

Emergency telephone number: CHEMTREC:

1-800-424-9300 (U.S. or Canada) 1-703-527-3887 (International)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Description 1: Bottle 1 (if applicable)

Components	CAS Number	Weight %	OSHA PEL:	OSHA STEL:	ACGIH TLV:	ACGIH STEL:
Sodium azide	26628-22-8	0.1-<1	NA	NA	NA	0.11 ppm Ceiling
						0.29 mg/m ³ Ceiling

Description 2: Bottle 1a

Components	CAS Number	Weight %	OSHA PEL:	OSHA STEL:	ACGIH TLV:	ACGIH STEL:
No hazardous components >1%,	NONE	<0.01	NA	NA	NA	NA
>0.1% carcinogen						

Description 3: Bottle 2 (if applicable)

Components	CAS Number	Weight %	OSHA PEL:	OSHA STEL:	ACGIH TLV:	ACGIH STEL:
Bicine	150-25-4	10 - 20	NA	NA	NA	NA
Sodium azide	26628-22-8	0.1-<1	NA	NA	NA	0.11 ppm Ceiling 0.29 mg/m ³ Ceiling

3. HAZARDS IDENTIFICATION

Emergency Overview					
NFPA Ratings: Health= 1 Flammability=	0 Reactivity= 0 Special= I				
Special Definitions: A=Allergen CA=Carcinogen CO=Corrosive F=Flammable H=Harmful I=Irritant Ox=Oxidizer PB=Potential Biohazard R=Reproductive S=Sensitizer T=Toxic T+=Highly Toxic W=Water Reactive					
Principle routes of exposure: Ingestion, inhalation, skin absorption, skin and/or eye contact.					
Inhalation: May cause irritation of respiratory tract.					
Ingestion:	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.				
Skin contact:	Substance may cause slight skin irritation.				
Eye contact:	May cause irritation.				
Sensitization or Odor threshold:	None.				
Medical conditions aggravated by exposure:	None known				
Additional information:	None				
	4. FIRST AID MEASURES				
Inhalation:	Consult a physician. Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.				
Skin contact:	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.				

Ingestion:	Call a physician immediately. Do not induce vomiting without medical advice.				
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.				
Notes to physician:	None determined				
	5. FIRE-FIGHTING MEASURES				
Suitable extinguishing media:	Use dry chemical, CO2, water spray or "alcohol" foam.				
Unusual hazards:	None known.				
Special protective equipment for firefighters:	In the event of fire, wear self-contained breathing apparatus.				
	6. ACCIDENTAL RELEASE MEASURES				
Personal precautions: Environmental precautions: Methods for cleaning up:	Use personal protective equipment. Evacuate personnel to safe areas. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Do not let product enter drains. Never return spills in original containers for re-use. Soak up with oil absorbent material. Sweep up or vacuum (if powder) or soak up with inert absorbent material (if liquid), then place into a suitable clean, dry, closed container, and label for disposal.				
	7. HANDLING AND STORAGE				
Storage: No special p	contamination. Wear personal protective equipment. precautions required. EXPOSURE CONTROLS / PERSONAL PROTECTION				
Engineering measures:	Ensure adequate ventilation.				
Personal Protective Equipment					
Respiratory protection:	Respiratory protection is not required under normal use of this product. If respiratory protection is needed, follow the OSHA regulation, 29CFR1910.134. Always use a NIOSH approved respirator when necessary.				
Hand protection:	Wear appropriate protective gloves to prevent skin contact. Replace torn or punctured gloves promptly.				
Skin and body protection:	Wear appropriate body protection to prevent skin contact.				
Eye protection:	Wear appropriate eye protection to prevent eye contact.				
Hygiene measures:	When using, do not eat, drink or smoke. Keep away from food and drink. Wash hands before breaks and at the end of workday.				
	9. PHYSICAL AND CHEMICAL PROPERTIES				
Boiling point/range: Melting point/range: pH: Physical state: Flash point: LEL (%): UEL (%):	No information available Not determined Not determined Liquid. No information available. Not determined Not determined				
	10. STABILITY AND REACTIVITY				
Stability: Polymerization: Hazardous decomposition products: Materials to avoid:	Stable under recommended storage conditions. None under normal processing. No data available. Incompatible with strong acids and bases. Oxidising agents (strong).				

11. TOXICOLOGICAL INFORMATION

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11. TOXICOLOGICAL INFORMATION								
Components NIOSH - NIOSH Pocket Guide -								
	Selected LD50s and LC50s:	Target Organs:						
Sodium azide	=20 mg/kg Dermal LD50 Rabbit	eyes skin CNS CVS kidneys						

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Sodium azide	=20 mg/kg Dermal LD50 Rabbit	eyes skin CNS CVS kidneys		
Inhalation: Skin: Oral: Mutagenic effects: Reproductive toxicity:	No additional data available No additional data available No additional data available No data is available on the product itself No data is available on the product itself			

12. ECOLOGICAL INFORMATION

Bioaccumulation:	Not determined

Aquatic toxicity: No data is available on the product itself

Ecotoxicity effects: No data is available on the product itself

U.S. EPA, RCRA, CERCLA, SARA, or DGC information on persistent, bioaccumulative, and toxic chemicals (PBTs): The following chemicals are listed under the U.S. EPA regulations of RCRA, CERCLA, SARA, or DGC:

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products: Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Residue from fires extinguished with this material may be hazardous.

14. TRANSPORT INFORMATION							
Is product hazardous to ship? DOT_	No.						
Proper shipping name: None							
UN Number: Not applicable	Hazard class: Not applicable	Subsidiary risk: Not applicable	Packing group: Not applicable				
ICAO/IATA							

Proper shipping name: None			
UN Number: Not applicable	Hazard class: Not applicable	Subsidiary risk: Not applicable	Packing group: Not applicable

15. REGULATORY INFORMATION

U.S. Regulations:

U.S. CERCLA/SARA/TSCA Regulatory Information: The following chemicals are listed under the following TSCA/SARA/CERCLA lists. Refer to TSCA regulation if you need a definition for acronyms that may be shown in the TSCA Inventory field in the table below

Components	CERCLA/SARA 302 RQ and TPQ (40 CFR 355, App.A)	CERCLA/SARA 304 RQ (40 CFR Table 302.4)	SARA 313 Emission reporting	TSCA Inventory
Sodium azide	=500 lb TPQ This material is a reactive solid. The TPQ does not default to 10000 pounds for non-powder, non-molten, non-solution form	=454 kg final RQ	Listed	Present

Components	CERCLA/SARA 302 RQ and TPQ (40 CFR 355, App.A)	CERCLA/SARA 304 RQ (40 CFR Table 302.4)	SARA 313 Emission reporting	TSCA Inventory
Bicine				Present

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Components	CERCLA/SARA 302 RQ and TPQ (40 CFR 355, App.A)	CERCLA/SARA 304 RQ (40 CFR Table 302.4)	SARA 313 Emission reporting	TSCA Inventory
Sodium azide	=500 lb TPQ This material is a reactive solid. The TPQ does not default to 10000 pounds for non-powder, non-molten, non-solution form	=454 kg final RQ	Listed	Present

U.S. Clean Water Act (CWA)/ California The following chemicals are listed under the CWA and/or California Proposition 65: Proposition 65:

Canadian Regulations:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Components	Canada - WHMIS: Classifications of Substances:		
Sodium azide	D1A		

Components	Canada - WHMIS: Classifications of Substances:	
Sodium azide	D1A	

16. OTHER INFORMATION				
Reason for revision:	A component has been added to the formulation. SEE SECTION 2			
References:	None			
Additional advice:	None			
Prepared by:	Roche Diagnostics, Health & Safety Department, MSDS Contact: 317-521-7425 or 317-521-7505			

The information, data and recommendations contained herein are based upon information believed by Roche Diagnostics Operations after reasonable investigation and research, to be accurate; however, Roche Diagnostics Operations does not warrant the accuracy of this information. All materials and mixtures may present unknown hazards and should be used with caution. When necessary or appropriate, independent opinions regarding the risk of handling or exposure should be obtained from trained professionals. Roche Diagnostics Operations disclaims any warranty against patent infringement and the implied warranties of merchantability and fitness for a particular purpose. Customer's sole and exclusive remedy shall be replacement of the product or return of the product and refund of the purchase price, at Roche Diagnostics Operations's option. In no case shall Roche Diagnostics Operations be liable for incidental or consequential damages, including lost profits.

End of Safety Data Sheet