

SECTION 1 Identification

1.1. Product identifier

Product form : Mixture
 Product name : Xpert® GI Panel
 Product code : GXGI-10

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture : Laboratory use
 Restrictions on use : No information available

1.4. Supplier's details

Manufacturer

Cepheid
 904 Caribbean Drive
 Sunnyvale, CA 94089
 United States
 T 1-888-838-3222
techsupport@cepheid.com - www.cepheid.com

1.5. Emergency phone number

Emergency number : For Chemical Emergency Call INFOTRAC 24hr/day 7days/week
 Within USA and Canada: 1-800-535-5053
 Outside USA and Canada: 1-352-323-3500
 (collect calls accepted)

SECTION 2 Hazard Identification

2.1. Classification of the substance or mixture

GHS US classification

Skin corrosion/irritation, Category 2	H315	Causes skin irritation.
Serious eye damage/eye irritation, Category 2	H319	Causes serious eye irritation.
Full text of H statements : see section 16		

2.2. Label elements

GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Warning
 Hazard statements (GHS US) : H315 - Causes skin irritation
 H319 - Causes serious eye irritation
 Precautionary statements (GHS US) : P264 - Wash hands, forearms and face thoroughly after handling.
 P280 - Wear protective gloves, protective clothing, eye and face protection.
 P302+P352 - If on skin: Wash with plenty of water.

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P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P332+P313 - If skin irritation occurs: Get medical advice or attention.
P337+P313 - If eye irritation persists: Get medical advice or attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.

2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

2.4. Hazards not otherwise classified

No additional information available

2.5. Unknown acute toxicity

No additional information available

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
Guanidine Hydrochloride	CAS-No.: 50-01-1	10 - 30*	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 3, H412
Sodium Azide	CAS-No.: 26628-22-8	<0.1	Acute Tox. 2 (Oral), H300 Acute Tox. 1 (Dermal), H310 Acute Tox. 2 (Inhalation:dust,mist), H330 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of hazard classes and H-statements : see section 16

SECTION 4 First aid measures

4.1. Description of necessary first-aid measures

First-aid measures general : If you feel unwell, seek medical advice.
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : Wash skin with plenty of water. Remove/Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.
Personal protection for first-aid responders. : First aid workers will be equipped with suitable personal protective equipment.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after inhalation : None under normal conditions.

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Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after eye contact	: Eye irritation.
Symptoms/effects after ingestion	: None under normal conditions.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment	: Treat symptomatically.
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SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire. Dry chemical. Carbon dioxide. Alcohol-resistant foam. Water spray.
Unsuitable extinguishing media	: No information available.

5.2. Specific hazards arising from the chemical

Fire hazard	: No fire hazard.
Explosion hazard	: No direct explosion hazard.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Stop leak if safe to do so. Absorb spillage to prevent material-damage.
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For non-emergency personnel

Protective equipment	: Wear recommended personal protective equipment.
Emergency procedures	: Ventilate spillage area. Avoid contact with skin, eyes and clothing.

For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Evacuate unnecessary personnel. Stop leak if safe to do so.
Environmental precautions	: Avoid release to the environment.

6.2. Methods and materials for containment and cleaning up

For containment	: Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak, if possible without risk.
Methods for cleaning up	: Take up liquid spill into absorbent material.
Other information	: Dispose of materials or solid residues at an authorized site.

For further information refer to section 8, For further information refer to section 13

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SECTION 7 Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with skin and eyes.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse.
Additional hazards when processed	: Not expected to present a significant hazard under anticipated conditions of normal use.

7.2. Conditions for safe storage, including incompatibilities

Technical measures	: Store in a well-ventilated place. Keep container tightly closed.
Storage conditions	: Store in a well-ventilated place. Keep container tightly closed.
Specific end uses	: The identified uses for this product are detailed in Section 1.
Packaging materials	: Store always product in container of same material as original container.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

Sodium Azide (26628-22-8)

USA - ACGIH - Occupational Exposure Limits

Local name	Sodium azide
ACGIH® TLV® C	0.29 mg/m³
	0.11 ppm
Remark (ACGIH)	TLV® Basis: Card & CNS impair; Lung dam. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2025

USA - Cal/OSHA - Occupational Exposure Limits

Local name	Sodium azide
Cal/OSHA C	0.3 mg/m³
	0.1 ppm
Regulatory reference	California Division of Occupational Safety and Health (Cal/OSHA) - Permissible Exposure Limit for Chemical Contaminants (Table AC-1)

8.2. Appropriate engineering controls

Appropriate engineering controls	: Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Environmental exposure controls	: Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment

Personal protective equipment:

Wear recommended personal protective equipment.

Hand protection:

Protective gloves

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Eye protection:
Safety glasses
Skin and body protection:
Wear suitable protective clothing
Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	: Liquid
Appearance	: Clear liquid. White spherical beads.
Color	: clear
Odor	: odorless
Odor threshold	: No data available
pH	: 6.9 – 9.1
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Explosion limits	: No data available
Particle characteristics	: No data available

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10 Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

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10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11 Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : No data available (Based on available data, the classification criteria are not met)
Acute toxicity (dermal) : No data available (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation) : No data available (Based on available data, the classification criteria are not met)

Sodium Azide (26628-22-8)

LD50 oral rat	27 mg/kg body weight (Rat, Experimental value, Oral)
LD50 oral	45 mg/kg
LD50 dermal rabbit	19 – 48 mg/kg body weight (Rabbit, Inconclusive, insufficient data, Dermal)
LD50 dermal	20 mg/kg
LC50 Inhalation - Rat	0.05 – 0.52 mg/l (EPA OPPTS 870.1300: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (dust), 14 day(s))
LC50 Inhalation - Rat (Dust/Mist)	0.054 – 0.52 mg/l/4h
ATE US (oral)	27 mg/kg body weight
ATE US (dermal)	19 mg/kg body weight
ATE US (vapors)	0.05 mg/l/4h
ATE US (dust, mist)	0.05 mg/l/4h

Guanidine Hydrochloride (50-01-1)

LD50 oral rat	774 – 907 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	> 2000 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Experimental value, Dermal, 14 day(s))
LD50 dermal	2500 mg/kg
LC50 Inhalation - Rat	5.32 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (aerosol), 14 day(s))
LC50 Inhalation - Rat (Dust/Mist)	5.319 mg/l/4h
ATE US (oral)	840.5 mg/kg body weight
ATE US (dermal)	2500 mg/kg body weight

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Guanidine Hydrochloride (50-01-1)

ATE US (vapors)	5.32 mg/l/4h
ATE US (dust, mist)	5.319 mg/l/4h

Skin corrosion/irritation : Causes skin irritation.
pH: 6.9 – 9.1

Sodium Azide (26628-22-8)

pH	No data available in the literature
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Guanidine Hydrochloride (50-01-1)

pH	4.5 – 6 (57.3 %)
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Serious eye damage/irritation : Causes serious eye irritation.
pH: 6.9 – 9.1

Sodium Azide (26628-22-8)

pH	No data available in the literature
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Guanidine Hydrochloride (50-01-1)

pH	4.5 – 6 (57.3 %)
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Respiratory or skin sensitization : No data available (Based on available data, the classification criteria are not met)

Germ cell mutagenicity : No data available (Based on available data, the classification criteria are not met)

Carcinogenicity : No data available (Based on available data, the classification criteria are not met)

Reproductive toxicity : No data available (Based on available data, the classification criteria are not met)

STOT-single exposure : No data available (Based on available data, the classification criteria are not met)

STOT-repeated exposure : No data available (Based on available data, the classification criteria are not met)

Sodium Azide (26628-22-8)

NOAEL (oral,rat,28 days)	10 mg/kg bw/day
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Aspiration hazard : No data available (Based on available data, the classification criteria are not met)

Sodium Azide (26628-22-8)

Viscosity, kinematic	Not applicable (solid)
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Symptoms/effects after inhalation : None under normal conditions.

Symptoms/effects after skin contact : Irritation.

Symptoms/effects after eye contact : Eye irritation.

Symptoms/effects after ingestion : None under normal conditions.

SECTION 12 Ecological information

12.1. Ecotoxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

Unknown hazards to the aquatic environment (GHS US) : Contains 0 % of components with unknown hazards to the aquatic environment

Hazardous to the aquatic environment, short-term (acute) : No data available (Based on available data, the classification criteria are not met)

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Hazardous to the aquatic environment, long-term (chronic) : No data available (Based on available data, the classification criteria are not met)

Sodium Azide (26628-22-8)	
LC50 - Fish [1]	2.75 – 3.28 mg/l (Equivalent or similar to OECD 203, 96 h, Oncorhynchus mykiss, Flow-through system, Fresh water, Experimental value)
EC50 - Crustacea [1]	4.2 mg/l
EC50 - Other aquatic organisms [1]	5 mg/l Test organisms (species): Gammarus fasciatus
EC50 96h - Algae [1]	0.35 mg/l (Equivalent or similar to OECD 201, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Cell numbers)
ErC50 algae	0.348 mg/l

Guanidine Hydrochloride (50-01-1)	
LC50 - Fish [1]	1758 mg/l (DIN 38412-15, 48 h, Leuciscus idus, Experimental value, GLP)
EC50 - Crustacea [1]	70.2 mg/l (Equivalent or similar to OECD 202, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
EC50 72h - Algae [1]	11.8 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	33.5 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
ErC50 algae	33.5 mg/l (EU Method C.3, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)
NOEC (chronic)	2.9 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	≥ 181 mg/l Test organisms (species): Pimephales promelas Duration: '35 d'

12.2. Persistence and degradability

Xpert® GI Panel	
Persistence and degradability	No information available.
Sodium Azide (26628-22-8)	
Persistence and degradability	Biodegradability: Not Applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)
Guanidine Hydrochloride (50-01-1)	
Persistence and degradability	Not readily biodegradable in water.

12.3. Bioaccumulative potential

Sodium Azide (26628-22-8)	
Partition coefficient n-octanol/water (Log Pow)	0.16 Source: NIOSH
Bioaccumulative potential	Not bioaccumulative.
Guanidine Hydrochloride (50-01-1)	
Partition coefficient n-octanol/water (Log Pow)	< -1.7 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C)

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Guanidine Hydrochloride (50-01-1)

Bioaccumulative potential	Not bioaccumulative.
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12.4. Mobility in soil

Sodium Azide (26628-22-8)

Surface tension	No data available (test not performed)
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Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.63 (log Koc, Calculated value)
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Ecology - soil	Low potential for adsorption in soil.
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Guanidine Hydrochloride (50-01-1)

Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.358 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
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Ecology - soil	High mobility in soil.
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12.5. Other adverse effects

Ozone	: No data available (Based on available data, the classification criteria are not met)
Fluorinated greenhouse gases	: No

SECTION 13 Disposal considerations

Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of in accordance with applicable federal, state, and local regulations.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Disposal must be done according to official regulations.
Additional information	: Do not re-use empty containers.

SECTION 14 Transport information

In accordance with DOT / IMDG / IATA

DOT	IMDG	IATA
14.1. UN number		
Not regulated for transport		
14.2. Proper Shipping Name		
Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)		
Not regulated	Not regulated	Not regulated
14.4. Packing group		
Not regulated	Not regulated	Not regulated
14.5. Environmental hazards		
Not regulated	Not regulated	Not regulated
No supplementary information available		

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14.6. Transport in bulk

Not applicable

14.7. Special precautions for user

DOT

Not regulated

IMDG

Not regulated

IATA

Not regulated

SECTION 15 Regulatory information

15.1. Federal regulations

This product is regulated under the FDA therefore exempt from TSCA.

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Sodium Azide

CAS-No. 26628-22-8

<0.1%

Sodium Azide (26628-22-8)

CERCLA RQ

1000 lb

RQ (Reportable quantity, section 304 of EPA's List of Lists)

1000 lb

SARA Section 302 Threshold Planning Quantity (TPQ)

500 lb

15.2. International regulations

CANADA

Sodium Azide (26628-22-8)

Listed on the Canadian DSL (Domestic Substances List)

Guanidine Hydrochloride (50-01-1)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

Sodium Azide (26628-22-8)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

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Guanidine Hydrochloride (50-01-1)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16 Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date : 2025-08

Issue date : 2025-08

Data sources : HazCom 2024. according to the United Nations GHS (Rev. 8, 2019). Supplier's safety documents. ECHA (European Chemicals Agency). REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 and all its amendments and modifications.

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.

Full text of hazard classes and H-statements

H300	Fatal if swallowed
H302	Harmful if swallowed
H310	Fatal in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H330	Fatal if inhaled
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

Abbreviations and acronyms

ACGIH	American Conference of Government Industrial Hygienists
CAS-No.	Chemical Abstract Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
EC50	Median effective concentration
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
Log Pow	Partition coefficient n-octanol/water (Log Pow)

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Abbreviations and acronyms	
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organization for Economic Co-operation and Development
OEL	Occupational Exposure Limit
OSHA	Occupational Safety Health Administration
PPE	Personal protection equipment
SDS	Safety Data Sheet
ThOD	Theoretical oxygen demand (ThOD)

Safety Data Sheet (SDS), USA - Custom

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.