

## Safety Data Sheet

according to 1907/2006/EC, Article 31

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Release date 29.04.2023

Version number 2 (replaces version 1)

Last alteration on 29.04.2023

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

· Trade name: **Alere NT-proBNP for ARCHITECT Microparticles**

· Article number: 2R10G

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

· Product category PC0 Other

· Application of the substance / the preparation: For In Vitro Diagnostic Use

#### 1.3 Details of the supplier of the safety data sheet

· Supplier:

Abbott GmbH  
Max-Planck-Ring 2  
65205 Wiesbaden  
Tel.: (+49)-6122-58-0

MSDS-Support@Abbott.com

#### 1.4 Emergency telephone number

(+49)-6122-58-0 (English only)

Contact the CHEMTREC® Emergency Call Center for assistance with transportation or hazardous materials emergencies (24 hours/day, 7 days/week). Refer to Abbott customer number 675805.

- Telephone (800) 424-9300 (toll-free) if you are calling from within the United States, Canada, Puerto Rico and the Virgin Islands.

- Telephone +1 (703) 527-3887, the international and maritime number (collect calls accepted), if you are calling from outside the United States or from a ship at sea.

- Telephone 09 8010034 if you are calling from New Zealand.

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

The classification is in alignment with current European regulations. It incorporates information from technical literature and information provided by supplier companies.

· **Classification according to Regulation (EC) No 1272/2008:**

This product has been evaluated per the classification criteria in Regulation (EC) No 1272/2008 (CLP) and the Globally Harmonized System of Classification and Labelling of Chemicals (GHS). This product does not meet the criteria for classification in accordance with either CLP or GHS.

#### 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008: None

· Hazard pictograms: None

· Signal word: None

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### · Hazard-determining components of labelling:

Sodium azide

### · Hazard statements: None

### · Precautionary statements:

P501 Dispose of contents / container in accordance with local regulations.

### · Additional information:

EUH032 Contact with acids liberates very toxic gas.

### · Routes of Exposure:

- Skin: No adverse effects expected when used as directed.
- Eye: No adverse effects expected when used as directed.
- Inhalation: No adverse effects expected when used as directed.
- Ingestion: No adverse effects expected when used as directed.

## · 2.3 Other hazards

### · Results of PBT and vPvB assessment:

- **PBT:** Not applicable
- **vPvB:** Not applicable

## SECTION 3: Composition/information on ingredients

### · 3.2 Mixtures

#### · Dangerous components according to EC criteria:

CAS: 7791-18-6 Reg.nr.: 01-2119480418-32-xxxx	Magnesium chloride hexahydrate STOT SE 3, H335	1.785%
CAS: 64431-96-5 EINECS: 264-899-3	Bis tris propane Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	1.377%
CAS: 26628-22-8 EINECS: 247-852-1 Reg.nr.: 01-2119457019-37-xxxx	Sodium azide Acute Tox. 2, H300; Acute Tox. 1, H310; Aquatic Acute 1, H400; Aquatic Chronic 1, H410, EUH032	0.088%

### · Additional information:

For the complete text of Hazard (H) codes displayed in this section, refer to Section 16.

## SECTION 4: First aid measures

### · 4.1 Description of first aid measures

#### · After inhalation:

Remove from source of exposure. If irritation or signs of toxicity occur, seek medical attention.

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- **After skin contact:**

Take off any clothing that the product touched. Rinse skin with running water for 15 to 20 minutes. Seek medical attention if irritation or signs of toxicity occur.

- **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. Wash hands after handling.

- **After swallowing:** Rinse mouth with water. If irritation or signs of toxicity occur, seek medical attention.

- **4.2 Most important symptoms and effects, both acute and delayed:** None expected

- **4.3 Indication of any immediate medical attention and special treatment needed:**

No additional relevant information available.

## SECTION 5: Firefighting measures

- **5.1 Extinguishing media**

- **Suitable extinguishing agents:**

Dry chemical, carbon dioxide (CO<sub>2</sub>), water spray or regular foam.

- Caution: CO<sub>2</sub> will displace air in confined spaces and may cause an oxygen-deficient atmosphere.

- For larger fires: There are no unique chemical or reactivity hazards that would impact firefighting decisions related to this product. Use firefighting measures that suit the environment.

- **5.2 Special hazards arising from the substance or mixture**

There are no unique chemical or reactivity hazards that would impact firefighting decisions due to the chemicals in this product.

No further relevant information available.

- **5.3 Advice for firefighters**

- **Protective equipment:**

For large fires, wear appropriate heat- and flame-resistant personal protective equipment and an approved positive-pressure, self-contained breathing apparatus.

## SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**

Minimize exposure by using appropriate personal protective equipment as listed in Section 8. Stop leak if possible. Keep unprotected persons away.

- **6.2 Environmental precautions**

Prevent liquid and vapor from entering sewage system, storm drains, surface waters, and soil.

- **6.3 Methods and material for containment and cleaning up**

Blot up small volumes of spilled or spattered product with paper towels or similar materials.

- Contain larger spills by placing absorbents around the outside edges of the spill. Absorb with any material suitable for water-based liquids - e.g. paper towels, universal sorbents, sand, diatomite, sawdust, etc.

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Clean the affected area. Suitable cleaners are:

- warm water and detergent or similar cleansing agent

This product contains sodium azide, which is toxic and reactive. See Sections 10 and 13 for additional information that could affect handling and disposal of contaminated spill materials.

**NOTE FOR LARGE-VOLUME SPILL:** This product contains sodium azide, which reacts with acid to liberate hydrazoic acid, a very toxic gas. Select a disinfectant with the following properties if disinfection of materials used to absorb a large volume of spilled product is required:

- Do not use any chemical or product with a pH below 6 to disinfect waste that contains sodium azide. Hydrazoic acid, a toxic gas, will be released when the pH is lower than 6.
- Do not use any chemical or product that contains mercury or any other metal to disinfect waste that contains sodium azide. This will create metal azide compounds, which can be highly explosive under pressure or shock (percussion).
- Select a disinfectant that does not bubble, effervesce or otherwise generate aerosols.
- Do not use excess disinfectant.
- Failure to follow manufacturer's directions may lead to unexpected reactions with the waste.
- Do not use a disinfectant if you do not have the proper facility, equipment and other appropriate protective measures available to work with it safely.

Dispose of spilled and contaminated material in accordance with Federal, State, and Local regulations. See Section 13 for information that may impact disposal of materials contaminated with this product.

#### 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling:

Avoid direct contact with material. If handled, wash thoroughly. Practice general safety precautions.

- **Information about protection against explosions and fires:** No special measures required.

### 7.2 Conditions for safe storage, including any incompatibilities

#### · Storage:

- **Requirements to be met by storerooms and containers:** Store only in the original container.
- **Information about storage in one common storage facility:** Store in original packaging.
- **Further information about storage conditions:**  
Refer to the package insert or product label for additional information on storage conditions for product quality.

### 7.3 Specific end use(s): No additional relevant information available.

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

· **Components with limit values that require monitoring at the workplace:**

**CAS: 26628-22-8 Sodium azide (0.088 %)**

IOELV (European Union)	Short-term value: 0.3 mg/m <sup>3</sup> Long-term value: 0.1 mg/m <sup>3</sup> Skin
WEL (Great Britain)	Short-term value: 0.3 mg/m <sup>3</sup> Long-term value: 0.1 mg/m <sup>3</sup> (as NaN <sub>3</sub> ), Sk

### 8.2 Exposure controls

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures:**

Always maintain good housekeeping and follow general precautionary measures. Do not eat, drink or store food and beverages in areas where chemicals or specimens are used. Wash hands before breaks, after handling reagents and specimens, and at the end of the workshift.

· **Breathing equipment:**

Normal use and storage of product - respiratory protection is not necessary if room is well ventilated.

Small-volume spills (e.g. small enough to clean up with a paper towel or small sorbent pad) - respiratory protection should not be necessary if room is well ventilated.

Other unusual conditions (e.g. volume spilled too big to clean up with materials in arm's reach) - Use appropriate air-purifying respirator if airborne chemical concentrations may exceed the exposure limit (if any) listed above.

Hazardous Materials Emergencies or Firefighting - use approved respiratory protection.

Take precautions if chemical concentrations exceed the exposure limits (if any) listed above.

· **Hand protection**

Wear impervious gloves if hand contact with the material is anticipated. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

· **Material of gloves and breakthrough time of the glove material:**

The glove material must be suitable for use in a microbiological laboratory and have a measured breakthrough time of at least 30 minutes, such as those with a Class 2 protection index per EN374 (or equivalent standard applicable in your region). NOTE: This recommendation applies only to the product stated in this Safety Data Sheet. When dissolving in or mixing with other substances, contact the supplier of approved gloves.

· **Eye/face protection**

Wear safety glasses or other protective eyewear. If splash potential exists, wear full face shield or goggles.

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### · Body protection:

Normal use: protect personal clothing from spatters and small spills. Wear a laboratory coat (or other protective clothing required by your institution). Larger spills (e.g. that can saturate cloth): wear appropriate water-repellant covering over clothing.

## SECTION 9: Physical and chemical properties

### · 9.1 Information on basic physical and chemical properties

#### · General Information

· Physical state	Liquid
· Colour:	Brown
· Odour:	Odourless
· Odour threshold:	Not determined
· Melting point/freezing point:	Not determined
· Boiling point or initial boiling point and boiling range	Not determined
· Flammability	Not applicable
· Lower and upper explosion limit	
· Lower:	Not determined
· Upper:	Not determined
· Flash point:	Not applicable
· pH at 20 °C	7.4
· Viscosity:	
· dynamic:	Not determined
· Solubility	
· Water:	Not miscible or difficult to mix
· Vapour pressure:	Not determined
· Density and/or relative density	
· Density at 20 °C	1.025 g/cm <sup>3</sup>
· Relative density:	Not determined

### · 9.2 Other information

· Appearance:	
· Form:	particulate
· Auto igniting	Product is not self-igniting.
· Explosive properties:	Product does not present an explosion hazard.
· Water:	90.4 %
· Solids content:	0.0 %
· Change in condition:	
· Evaporation rate:	Not determined
· Information with regard to physical hazard classes	
· Explosives	None
· Flammable gases	None

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· <b>Aerosols</b>	None
· <b>Oxidising gases</b>	None
· <b>Gases under pressure</b>	None
· <b>Flammable liquids</b>	None
· <b>Flammable solids</b>	None
· <b>Self-reactive substances and mixtures</b>	None
· <b>Pyrophoric liquids</b>	None
· <b>Pyrophoric solids</b>	None
· <b>Self-heating substances and mixtures</b>	None
· <b>Substances and mixtures, which emit flammable gases in contact with water</b>	None
· <b>Oxidising liquids</b>	None
· <b>Oxidising solids</b>	None
· <b>Organic peroxides</b>	None
· <b>Corrosive to metals</b>	None
· <b>Desensitised explosives</b>	None

## SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability:**
  - **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions:**  
This product contains sodium azide. Sodium azide solutions are reported to:
  - react with acids to release hydrazoic acid, a very toxic gas. Higher quantities of hydrazoic acid are released as the solution becomes more acidic (i.e., as the pH of the solution gets lower). Low quantities of hydrazoic acid can be released from sodium azide in water.
  - react with certain metals (copper, lead, silver, brass) to form explosive metal azide compounds. Violent explosions have been reported during plumbing work on drain systems containing accumulations of azide on copper, lead, brass, or solder.
- **10.4 Conditions to avoid:** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

## SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
  - **Acute toxicity** Based on available data, the classification criteria are not met.

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#### · LD/LC50 values that are relevant for classification:

##### · Ingredients (100% pure substance/s):

##### CAS: 7791-18-6 Magnesium chloride hexahydrate

Oral	LD50	8,100 mg/kg (rat) LD50 (ip) = 775mg/kg in mice LDLo (iv) = 250 mg/kg in guinea pigs
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##### CAS: 64431-96-5 Bis tris propane

Respiratory Effect	Reported to have the potential to be a respiratory irritant
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- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Sensitisation:** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **Target organs/systems:** Unknown

#### · 11.2 Information on other hazards

##### · Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

## SECTION 12: Ecological information

#### · 12.1 Toxicity

- **Aquatic toxicity:** No further relevant information available.

#### · 12.2 Persistence and degradability: No further relevant information available.

#### · 12.3 Bioaccumulative potential: No further relevant information available.

#### · 12.4 Mobility in soil: No further relevant information available.

#### · 12.5 Results of PBT and vPvB assessment

- **PBT:** Not applicable
- **vPvB:** Not applicable

#### · 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

#### · 12.7 Other adverse effects:

##### · General notes:

Do not allow product to reach ground water, water course, or sewage system.  
Refer to applicable local regulations for limit values of discharge into sewage system.

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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

There are no uniform EU regulations for the disposal of laboratory waste. In general, laboratory waste is under special supervision of the authorities.

##### Recommendation for disposal of unused product:

Dispose in accordance with national, state and local regulations and institutional requirements. Waste containing this product may be considered hazardous per state or local regulations. The following may be particularly important when identifying appropriate disposal:

- Contains sodium azide. See Section 10 when considering how to appropriately dispose of unused product.

For drain systems with pipes or solder containing copper, lead, brass and/or silver, flush drains thoroughly with copious amounts of water to prevent the formation of potentially explosive metal azides in plumbing. Detailed information about azides in drains is available from the U.S. NIOSH Current Intelligence Bulletin No. 13 (August 16, 1976).

##### European waste catalogue:

HP12	Release of an acute toxic gas
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##### The following waste disposal key numbers are possible:

18 01 06: chemicals consisting of or containing dangerous substances

##### Recommendation for disposal of packaging:

Non-contaminated packaging may be used for recycling. Refer to applicable local regulations and institutional policies.

For disposal of contaminated packaging, refer to applicable local regulations and institutional policies.

- Recommended cleaning agent: Water with cleansing agents, if necessary.

### SECTION 14: Transport information

#### 14.1 UN number or ID number

ADR, ADN, IMDG, IATA	None
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#### 14.2 UN proper shipping name

ADR, ADN, IMDG, IATA	None
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#### 14.3 Transport hazard class(es)

ADR, ADN, IMDG, IATA	None
Class	

#### 14.4 Packing group

ADR, IMDG, IATA	None
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#### 14.5 Environmental hazards

Marine pollutant:	No
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· **14.6 Special precautions for user** Not applicable

· **14.7 Maritime transport in bulk according to IMO instruments**

· **Transport/Additional information**

· **ADR**

· **Remarks:**

Not restricted for transportation.

· **IMDG**

· **Remarks:**

Not restricted for transportation.

· **IATA**

· **Remarks:**

Not restricted for transportation.

## SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

· **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

· **Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

· **15.2 Chemical safety assessment** A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

The information and recommendations contained herein are based upon information or tests believed to be reliable. Abbott Laboratories does not guarantee the accuracy or completeness of this information or recommendations contained herein, NOR SHALL ANY OF THIS INFORMATION CONSTITUTE A WARRANTY, WHETHER EXPRESSED OR IMPLIED, AS TO THE SAFETY OF THE GOODS, THE MERCHANTABILITY OF THE GOODS, OR THE FITNESS OF THE GOODS FOR A PARTICULAR PURPOSE.

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The information in this Safety Data Sheet (SDS) reflects the most current hazard information for this product.

· **Complete text for H (Hazard) codes displayed in Section 3:**

Note: The respective H statements apply to the pure substances.

- H300 Fatal if swallowed.
- H310 Fatal in contact with skin.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- EUH032 Contact with acids liberates very toxic gas.

· **Contact supplier**

Environmental Affairs & Product Safety  
Tel.: +49 (0) 6122 58 0

· **Date of previous version: 11.04.2023**

· **Version number of previous version: 1**

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (Division of the American Chemical Society)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: persistent, bioaccumulative and toxic  
vPvB: very persistent and very bioaccumulative  
Acute Tox. 2: Acute toxicity – Category 2  
Acute Tox. 1: Acute toxicity – Category 1  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1  
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

· **\* Data compared to the previous version altered.**