

Kit:

| Part Number | Description |
|-------------|--|
| 102-0833 | Advanta™ Dx SARS-CoV-2 RT-PCR Assay Reagent Kit Module 1, CE-IVD |

Components:

| | | |
|----------|--|------------------|
| 102-0837 | Advanta Dx SLR, CE-IVD, 250 µL | 2–11 |
| 102-0840 | Advanta Dx PCR MM, CE-IVD, 1.2 mL | 12–21 |
| 102-0843 | Advanta Dx RT PA MM, CE-IVD, 3.3 mL | |
| 102-0838 | Advanta Dx ALR, CE-IVD, 120 µL | 22–30 |
| 102-0839 | Advanta Dx PF 1, CE-IVD, 1.5 mL | |
| 102-0842 | Advanta Dx PF 2, CE-IVD, 2.04 mL | |
| 102-0844 | Advanta Dx Dilution Reagent, CE-IVD, 25 mL | |
| 102-0841 | Advanta Dx PCR Water, CE-IVD, 1.8 mL | SDS not required |

SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Contact information

General



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| | |
|--|---|
| Product identifier | Part Numbers: 102-0833; 102-0837 Tube, 20X GE Sample Loading Reagent |
| Synonyms | Reagent Kit, Advanta™ Dx SARS-CoV-2 RT-PCR Assay Module 1 |
| Trade names | Advanta™ Dx SARS-CoV-2 RT-PCR Assay Reagent Kit, Module 1 (102-0833), Advanta™ Dx SLR, 250 µL (102-0837) |
| Chemical family | Mixture |
| Relevant identified uses of the substance or mixture and uses advised against | <i>In Vitro</i> Diagnostic Kit. |
| Note | This SDS is written to address potential health and safety issues associated with the handling of the formulated product. |

SECTION 2 - HAZARDS IDENTIFICATION

Classification of the substance or mixture

Globally Harmonized System [GHS] Respiratory sensitizer - Category 1. Skin sensitizer - Category 1.

Label elements

SECTION 2 - HAZARDS IDENTIFICATION ...continued

GHS hazard pictogram



GHS signal word Danger

GHS hazard statements H317 - May cause allergic skin reaction. H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

GHS precautionary statements P261 - Avoid breathing mist or vapor. P272 - Contaminated work clothing should not be allowed out of the workplace. P280 - Wear protective gloves/eye protection/ face protection. P285 - In case of inadequate ventilation wear respiratory protection. P302 + P352 - IF ON SKIN: Wash with plenty of soap and water. P304 + P341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention. P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. P363 - Wash contaminated clothing before reuse. P501 - Dispose of contents/ container to location in accordance with local/regional/national/international regulations.

Other hazards The potential health hazards associated with exposure/handling of this mixture are unknown; no data specific for the mixture were identified. The following data describe the hazards of individual ingredients, where applicable.

Note This mixture is classified as hazardous under GHS as implemented by Regulation EC No 1272/2008 (EU CLP), WHMIS 2015 (Health Canada), and Hazard Communication Standard No. 1910.1200 (US OSHA).

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

| <u>Ingredient</u> | <u>CAS #</u> | <u>EINECS/ELIN CS#</u> | <u>Amount</u> | <u>GHS Classification</u> |
|----------------------|--------------|----------------------------|---------------|---|
| Bovine serum albumin | 9048-46-8 | N/A | 6-8% | SS1: H317; RS1: H334 |
| Tris-Hydrochloride | 1185-53-1 | 214-684-5 | ≤1% | SI2: H315; EI2: H319; STOT- SE3: H335 |

Note The ingredients listed above are considered hazardous. Amounts are listed as ranges; the exact percentage of composition is withheld as a trade secret. The remaining components are non-hazardous and/or present at amounts below reportable limits. See Section 16 for full text of GHS classifications.

SECTION 4 - FIRST AID MEASURES
Description of first aid measures

| | |
|---|--|
| Immediate Medical Attention Needed | Yes |
| Eye Contact | If easy to do, remove contact lenses, if worn. Immediately flush eyes with copious quantities of water for at least 15 minutes. If irritation occurs or persists, notify medical personnel and supervisor. |
| Skin Contact | Wash exposed area with soap and water and remove contaminated clothing/shoes. If irritation occurs or persists, notify medical personnel and supervisor. |
| Inhalation | Immediately move exposed subject to fresh air. If not breathing, give artificial respiration. If breathing is labored, administer oxygen. Immediately notify medical personnel and supervisor. |
| Ingestion | Do not induce vomiting unless directed by medical personnel. Do not give anything to drink unless directed by medical personnel. Never give anything by mouth to an unconscious person. Notify medical personnel and supervisor. |
| Protection of first aid responders | See Section 8 for Exposure Controls/Personal Protection recommendations. |
| Most important symptoms and effects, both acute and delayed | See Sections 2 and 11. |
| Indication of immediate medical attention and special treatment needed, if necessary | Medical conditions aggravated by exposure: None known or reported. Treat symptomatically and supportively. |

SECTION 5 - FIREFIGHTING MEASURES

| | |
|---|--|
| Extinguishing media | Use water spray (fog), foam, dry powder, or carbon dioxide, as appropriate for surrounding fire and materials. |
| Specific hazards arising from the substance or mixture | No information identified. May emit carbon monoxide, carbon dioxide, oxides of nitrogen, potassium- and chlorine-containing compounds. |
| Flammability/Explosivity | No explosivity or flammability data identified. As product is an aqueous solution, it is not expected to be flammable or explosive. |
| Advice for firefighters | In case of fire in the surroundings: use the appropriate extinguishing agent. Wear full protective clothing and an approved, positive pressure, self-contained breathing apparatus. Decontaminate all equipment after use. |

SECTION 6 - ACCIDENTAL RELEASE MEASURES

| | |
|--|--|
| Personal precautions, protective equipment and emergency procedures | If product is released or spilled, take proper precautions to minimize exposure by using appropriate personal protective equipment (see Section 8). Area should be adequately ventilated. Do not breathe mist/vapors/spray. |
| Environmental precautions | Do not empty into drains. Avoid release to the environment. |
| Methods and material for containment and cleaning up | DO NOT CAUSE MATERIAL TO BECOME AIRBORNE. For small spills, soak up material with absorbent, e.g., paper towels. For large spills, cordon off spill area and minimize the spreading of spilled material. Soak up material with absorbent. Collect spilled material, absorbent, and rinse water into suitable containers for proper disposal in accordance with applicable waste disposal regulations (see Section 13). Decontaminate the area twice. |
| Reference to other sections | See Sections 8 and 13 for more information. |

SECTION 7 - HANDLING AND STORAGE

| | |
|--|---|
| Precautions for safe handling | Follow recommendations for handling pharmaceutical agents (i.e., use of engineering controls and/or other personal protective equipment if needed). Avoid contact with eyes, skin and other mucous membranes. Wash thoroughly after handling. Avoid breathing vapor/mist/spray. |
| Conditions for safe storage including any incompatibilities | Store at -15 °C to -25 °C. |
| Specific end use(s) | <i>In Vitro</i> Diagnostic Kit. |

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Note Dispose of broken vials/syringes in a sharps container.

Control Parameters/Occupational Exposure Limit Values

| <u>Compound</u> | <u>Issuer</u> | <u>Type</u> | <u>OEL</u> |
|----------------------|---------------|-------------|------------|
| Bovine serum albumin | -- | -- | -- |
| Tris-Hydrochloride | -- | -- | -- |

Exposure/Engineering controls Selection and use of containment devices and personal protective equipment should be based on a risk assessment of exposure potential. Use local exhaust and/or enclosure at aerosol/mist-generating points. Emphasis is to be placed on closed material transfer systems and process containment, with limited open handling. High-energy operations should be done within an approved emission control or containment system.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION ...continued

| | |
|--|---|
| Respiratory protection | Choice of respiratory protection should be appropriate to the task and the level of existing engineering controls. An approved and properly fitted air-purifying respirator with HEPA filters may be considered to provide ancillary protection based on the known or foreseeable limitations of existing engineering controls. |
| Hand protection | Wear nitrile or other impervious gloves if skin contact is possible. When the material is diluted in an organic solvent, wear gloves that provide protection against the solvent. |
| Skin protection | Wear appropriate gloves, lab coat, or other protective overgarment if skin contact is likely. Base the choice of skin protection on the job activity, potential for skin contact and solvents and reagents in use. |
| Eye/face protection | Wear safety glasses with side shields, chemical splash goggles, or full face shield, if necessary. Base the choice of protection on the job activity and potential for contact with eyes or face. An emergency eye wash station should be available. |
| Environmental Exposure Controls | Avoid release to the environment and operate within closed systems wherever practicable. Air and liquid emissions should be directed to appropriate pollution control devices. In case of spill, do not release to drains. Implement appropriate and effective emergency response procedures to prevent release or spread of contamination and to prevent inadvertent contact by personnel. |
| Other protective measures | Wash hands in the event of contact with this product/mixture, especially before eating, drinking or smoking. Protective equipment is not to be worn outside the work area (e.g., in common areas or out-of-doors). |

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | |
|--|----------------------------|
| Appearance | Liquid |
| Color | Clear, colorless |
| Odor | No information identified. |
| Odor threshold | No information identified. |
| pH | No information identified. |
| Melting point/freezing point | No information identified. |
| Initial boiling point and boiling range | No information identified. |
| Flash point | No information identified. |
| Evaporation rate | No information identified. |

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ...continued

| | |
|---|----------------------------|
| Flammability (solid, gas) | No information identified. |
| Upper/lower flammability or explosive limits | No information identified. |
| Vapor pressure | No information identified. |
| Vapor density | No information identified. |
| Relative density | No information identified. |
| Water solubility | Miscible in water. |
| Solvent solubility | No information identified. |
| Partition coefficient (<i>n</i>-octanol/water) | No information identified. |
| Auto-ignition temperature | No information identified. |
| Decomposition temperature | No information identified. |
| Viscosity | No information identified. |
| Explosive properties | No information identified. |
| Oxidizing properties | No information identified. |
| Other information | |
| Molecular formula | Not applicable (Mixture) |
| Molecular weight | Not applicable (Mixture) |

SECTION 10 - STABILITY AND REACTIVITY

| | |
|---|----------------------------|
| Reactivity | No information identified. |
| Chemical stability | No information identified. |
| Possibility of hazardous reactions | Not expected to occur. |
| Conditions to avoid | No information identified. |
| Incompatible materials | No information identified. |
| Hazardous decomposition products | No information identified. |

SECTION 11 - TOXICOLOGICAL INFORMATION

Note No data for this product/mixture were identified. The following data describe the active ingredient and/or the individual ingredients where applicable.

Information on toxicological effects

Route of entry May be absorbed by inhalation, skin contact and ingestion.

Acute toxicity

| <u>Compound</u> | <u>Type</u> | <u>Route</u> | <u>Species</u> | <u>Dose</u> |
|----------------------|-------------|--------------|----------------|-------------|
| Bovine serum albumin | -- | -- | -- | -- |
| Tris-Hydrochloride | -- | -- | -- | -- |

Irritation/Corrosion No data on product formulation.

Sensitization As bovine serum albumin (BSA) is derived from animal (foreign) protein, there is potential for the material to cause an allergic response in humans. Occupational exposure to BSA has caused some cases of allergic sensitization in workers handling this material.

STOT-single exposure No data on product formulation.

STOT-repeated exposure/Repeat-dose toxicity No data on product formulation.

Reproductive toxicity No data on product formulation.

Developmental toxicity No data on product formulation.

Genotoxicity No data on product formulation.

Carcinogenicity No data on product formulation. None of the components of the product/mixture present at levels greater than or equal to 0.1% are listed by NTP, IARC, ACGIH or OSHA as a carcinogen.

Aspiration hazard No data on product formulation.

Human health data See Section 2 - "Other hazards"

Additional information The toxicological properties of this mixture have not been fully characterized.

SECTION 12 - ECOLOGICAL INFORMATION
Toxicity

| <u>Compound</u> | <u>Type</u> | <u>Species</u> | <u>Concentration</u> |
|----------------------|-------------|----------------|----------------------|
| Bovine serum albumin | -- | -- | -- |
| Tris-Hydrochloride | -- | -- | -- |

Persistence and Degradability No data identified.

SECTION 12 - ECOLOGICAL INFORMATION ...continued

| | |
|---|--|
| Bioaccumulative potential | No data identified. |
| Mobility in soil | No data identified. |
| Results of PBT and vPvB assessment | Not performed. |
| Other adverse effects | No data identified. |
| Note | The environmental characteristics of this product/mixture have not been fully investigated. Releases to the environment should be avoided. |

SECTION 13 - DISPOSAL CONSIDERATIONS

| | |
|--------------------------------|--|
| Waste treatment methods | Used product should be disposed of according to local, state, and federal regulations. Do not discharge into sanitary drains (e.g. non-process drains) or down the toilet. All wastes containing the material should be properly labeled. Dispose of wastes in accordance to prescribed federal, state, and local guidelines, e.g., appropriately permitted chemical waste incinerator. Rinse waters resulting from spill cleanups should be discharged in an environmentally safe manner, e.g., appropriately permitted municipal or on-site wastewater treatment facility. |
|--------------------------------|--|

SECTION 14 - TRANSPORT INFORMATION

| | |
|--|--|
| Transport | Based on the available data, this product/mixture is not regulated as a hazardous material/dangerous good under EU ADR/RID, US DOT, Canada TDG, IATA, or IMDG. |
| UN number | None assigned. |
| UN proper shipping name | None assigned. |
| Transport hazard classes and packing group | None assigned. |
| Environmental hazards | Based on the available data, this product/mixture is not regulated as an environmental hazard or a marine pollutant. |
| Special precautions for users | Due to lack of data, avoid release to the environment. |
| Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |

SECTION 15 - REGULATORY INFORMATION

| | |
|---|--|
| Safety, health and environmental regulations/legislation specific for the substance or mixture | This SDS generally complies with the requirements listed under current guidelines in the US, EU and Canada. Consult your local or regional authorities for more information. |
| Chemical safety assessment | Not conducted. |
| TSCA status | Bovine serum albumin is listed. Tris-hydrochloride is listed. |
| SARA section 313 | Not listed. |
| California proposition 65 | Not listed. |
| Additional information | No other information identified. |

SECTION 16 - OTHER INFORMATION

| | |
|---|--|
| Full text of H phrases and GHS classifications | SS1 - Skin sensitizer Category 1. H317 - May cause an allergic skin reaction. RS1 - Respiratory Sensitizer Category 1. H334 - May cause allergic or asthmatic symptoms or breathing difficulty if inhaled. |
| Sources of data | Information from published literature and internal company data. |
| Abbreviations | ACGIH - American Conference of Governmental Industrial Hygienists; ADR/RID - European Agreement Concerning the International Carriage of Dangerous Goods by Road/Rail; AIHA - American Industrial Hygiene Association; CAS# - Chemical Abstract Services Number; CLP - Classification, Labelling, and Packaging of Substances and Mixtures; DNEL - Derived No Effect Level; DOT - Department of Transportation; EINECS - European Inventory of New and Existing Chemical Substances; ELINCS - European List of Notified Chemical Substances; EU - European Union; GHS - Globally Harmonized System of Classification and Labeling of Chemicals; IARC - International Agency for Research on Cancer; IDLH - Immediately Dangerous to Life or Health; IATA - International Air Transport Association; IMDG - International Maritime Dangerous Goods; LOEL - Lowest Observed Effect Level; LOAEL - Lowest Observed Adverse Effect Level; NIOSH - The National Institute for Occupational Safety and Health; NOEL - No Observed Effect Level; NOAEL - No Observed Adverse Effect Level; NTP - National Toxicology Program; OEL - Occupational Exposure Limit; OSHA - Occupational Safety and Health Administration; PBT - Persistent, Bioaccumulative, and Toxic; PNEC - Predicted No Effect Concentration; SARA - Superfund Amendments and Reauthorization Act; STOT - Specific Target Organ Toxicity; STEL - Short Term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System |
| Issue Date | November 2020 |

SECTION 16 - OTHER INFORMATION ...continued

Revisions

Revision 01: CHG-002775; This is the first version of this SDS.

Disclaimer

Supplier gives no warranty whatsoever, including the warranties of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser shall determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental, consequential or any other damages arising out of the use or misuse of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights. Read the Safety Data Sheet before handling product. **For *In Vitro* Diagnostic Use.**

SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Contact information

General



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| | |
|--|--|
| Product identifier | Part Numbers: 102-0833; 102-0840, 102-0843 Tube, SprintTaq GE Master Mix Bottle, 1 step RT PCR Master Mix |
| Synonyms | Reagent Kit, Advanta™ Dx SARS-CoV-2 RT-PCR Assay Module 1 |
| Trade names | Advanta™ Dx SARS-CoV-2 RT-PCR Assay Reagent Kit, Module 1 (102-0833), Advanta™ Dx PCR MM, 1.2 mL (102-0840), Advanta™ Dx RT PA MM, 3.3 mL (102-0843) |
| Chemical family | Mixture |
| Relevant identified uses of the substance or mixture and uses advised against | <i>In Vitro</i> Diagnostic Kit. |
| Note | This SDS is written to address potential worker health and safety issues associated with the handling of the formulated product. |

SECTION 2 - HAZARDS IDENTIFICATION

Classification of the substance or mixture

| | |
|---|------------------------------|
| Globally Harmonized System [GHS] | Not classified. |
| Other/Supplemental | Mixture not yet fully tested |

Label elements

SECTION 2 - HAZARDS IDENTIFICATION ...continued

GHS hazard pictogram None required

GHS signal word None required

GHS hazard statements None required

GHS precautionary statements None required

Other hazards The potential health hazards associated with exposure/handling of this mixture are unknown; no data specific for the mixture were identified. The following data describe the hazards of individual ingredients, where applicable.

Note This mixture does not meet criteria for classification under GHS as implemented by Regulation EC No 1272/2008 (EU CLP), WHMIS 2015 (Health Canada), and Hazard Communication Standard No. 1910.1200 (US OSHA). Nevertheless, it should be handled with caution as it has not yet been fully tested.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

| <u>Ingredient</u> | <u>CAS #</u> | <u>EINECS/ELIN CS#</u> | <u>Amount</u> | <u>GHS Classification</u> |
|-------------------|--------------|----------------------------|---------------|-------------------------------|
| Glycerol | 56-81-5 | 200-289-5 | ≤30% | Not classified |

Note The ingredients listed above are considered hazardous and/or have OELs. The remaining components are non-hazardous and/or present at amounts below reportable limits. See Section 16 for full text of GHS classifications.

SECTION 4 - FIRST AID MEASURES
Description of first aid measures

Immediate Medical Attention Needed No. If exposed or concerned: Get medical advice/attention.

Eye Contact If easy to do, remove contact lenses, if worn. Immediately flush eyes with copious quantities of water for at least 15 minutes. If irritation occurs or persists, notify medical personnel and supervisor.

Skin Contact Wash exposed area with soap and water and remove contaminated clothing/shoes. If irritation occurs or persists, notify medical personnel and supervisor.

Inhalation Immediately move exposed subject to fresh air. If not breathing, give artificial respiration. If breathing is labored, administer oxygen. Immediately notify medical personnel and supervisor.

SECTION 4 - FIRST AID MEASURES ...continued

| | |
|---|--|
| Ingestion | Do not induce vomiting unless directed by medical personnel. Do not give anything to drink unless directed by medical personnel. Never give anything by mouth to an unconscious person. Notify medical personnel and supervisor. |
| Protection of first aid responders | See Section 8 for Exposure Controls/Personal Protection recommendations. |
| Most important symptoms and effects, both acute and delayed | See Sections 2 and 11 |
| Indication of immediate medical attention and special treatment needed, if necessary | Medical conditions aggravated by exposure: None known or reported. Treat symptomatically and supportively. |

SECTION 5 - FIREFIGHTING MEASURES

| | |
|---|--|
| Extinguishing media | Use water spray (fog), foam, dry powder, or carbon dioxide, as appropriate for surrounding fire and materials. |
| Specific hazards arising from the substance or mixture | No information identified. May emit carbon monoxide and carbon dioxide. |
| Flammability/Explosivity | No explosivity or flammability data identified. As product is an aqueous solution, it is not expected to be flammable or explosive. |
| Advice for firefighters | In case of fire in the surroundings: use the appropriate extinguishing agent. Wear full protective clothing and an approved, positive pressure, self-contained breathing apparatus. Decontaminate all equipment after use. |

SECTION 6 - ACCIDENTAL RELEASE MEASURES

| | |
|--|--|
| Personal precautions, protective equipment and emergency procedures | If product is released or spilled, take proper precautions to minimize exposure by using appropriate personal protective equipment (see Section 8). Area should be adequately ventilated. Do not breathe mist/vapors/spray. |
| Environmental precautions | Avoid release to the environment. |
| Methods and material for containment and cleaning up | For small spills, soak up material with absorbent, e.g., paper towels. For large spills, cordon off spill area and minimize the spreading of spilled material. Soak up material with absorbent. Collect spilled material, absorbent, and rinse water into suitable containers for proper disposal in accordance with applicable waste disposal regulations (see Section 13). Decontaminate the area twice. |

SECTION 6 - ACCIDENTAL RELEASE MEASURES ...continued

Reference to other sections See Sections 8 and 13 for more information.

SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling Follow recommendations for handling pharmaceutical agents (i.e., use of engineering controls and/or other personal protective equipment if needed). Avoid contact with eyes, skin and other mucous membranes. Wash thoroughly after handling. Avoid breathing vapor/mist/spray.

Conditions for safe storage including any incompatibilities Store at -15 °C to -25 °C.

Specific end use(s) *In Vitro* Diagnostic Kit.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Note Dispose of broken vials/syringes in a sharps container.

Control Parameters/Occupational Exposure Limit Values

| <u>Compound</u> | <u>Issuer</u> | <u>Type</u> | <u>OEL</u> |
|-----------------|---|-------------|--|
| Glycerol | ACGIH, Belgium, Netherlands, Portugal, United Kingdom, Mexico, Singapore | TWA-8 HR | 10 mg/m ³ (listed as glycerin mist) |
| | Estonia, France, Greece, Ireland, Poland, Spain | TWA-8 HR | 10 mg/m ³ |
| | Finland | TWA-8 HR | 20 mg/m ³ |
| | Switzerland | TWA-8 HR | 50 mg/m ³ |
| | Switzerland | STEL | 100 mg/m ³ (inhalable) |
| | United Kingdom | STEL | 30 mg/m ³ (mist) |

Exposure/Engineering controls Selection and use of containment devices and personal protective equipment should be based on a risk assessment of exposure potential. Use local exhaust and/or enclosure at aerosol/mist-generating points. Emphasis is to be placed on closed material transfer systems and process containment, with limited open handling.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION ...continued

| | |
|--|---|
| Respiratory protection | Choice of respiratory protection should be appropriate to the task and the level of existing engineering controls. An approved and properly fitted air-purifying respirator with HEPA filters may be considered to provide ancillary protection based on the known or foreseeable limitations of existing engineering controls. |
| Hand protection | Wear nitrile or other impervious gloves if skin contact is possible. Double gloves should be considered. |
| Skin protection | Wear appropriate gloves, lab coat, or other protective overgarment if skin contact is likely. Base the choice of skin protection on the job activity, potential for skin contact and solvents and reagents in use. |
| Eye/face protection | Wear safety glasses with side shields, chemical splash goggles, or full face shield, if necessary. Base the choice of protection on the job activity and potential for contact with eyes or face. An emergency eye wash station should be available. |
| Environmental Exposure Controls | Avoid release to the environment and operate within closed systems wherever practicable. Air and liquid emissions should be directed to appropriate pollution control devices. In case of spill, do not release to drains. Implement appropriate and effective emergency response procedures to prevent release or spread of contamination and to prevent inadvertent contact by personnel. |
| Other protective measures | Wash hands in the event of contact with this product/mixture, especially before eating, drinking or smoking. Protective equipment is not to be worn outside the work area (e.g., in common areas or out-of-doors). |

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | |
|--|----------------------------|
| Appearance | Liquid |
| Color | Clear, colorless |
| Odor | No information identified. |
| Odor threshold | No information identified. |
| pH | No information identified. |
| Melting point/freezing point | No information identified. |
| Initial boiling point and boiling range | No information identified. |
| Flash point | No information identified. |
| Evaporation rate | No information identified. |

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ...continued

| | |
|---|----------------------------|
| Flammability (solid, gas) | No information identified. |
| Upper/lower flammability or explosive limits | No information identified. |
| Vapor pressure | No information identified. |
| Vapor density | No information identified. |
| Relative density | No information identified. |
| Water solubility | Miscible in water. |
| Solvent solubility | No information identified. |
| Partition coefficient (<i>n</i>-octanol/water) | No information identified. |
| Auto-ignition temperature | No information identified. |
| Decomposition temperature | No information identified. |
| Viscosity | No information identified. |
| Explosive properties | No information identified. |
| Oxidizing properties | No information identified. |
| Other information | |
| Molecular formula | Not applicable (Mixture) |
| Molecular weight | Not applicable (Mixture) |

SECTION 10 - STABILITY AND REACTIVITY

| | |
|---|----------------------------|
| Reactivity | No information identified. |
| Chemical stability | No information identified. |
| Possibility of hazardous reactions | Not expected to occur. |
| Conditions to avoid | No information identified. |
| Incompatible materials | No information identified. |
| Hazardous decomposition products | No information identified. |

SECTION 11 - TOXICOLOGICAL INFORMATION

Note No data for this product/mixture were identified. The following data describe the active ingredient and/or the individual ingredients where applicable.

Information on toxicological effects

Route of entry May be absorbed by inhalation, skin contact, and eye contact.

Acute toxicity

| <u>Compound</u> | <u>Type</u> | <u>Route</u> | <u>Species</u> | <u>Dose</u> |
|-----------------|------------------|--------------|----------------|--------------------------------|
| Glycerol | LD ₅₀ | Oral | Rat | >10000 mg/kg |
| | LD ₅₀ | Oral | Mouse | >= 4090 mg/kg |
| | LD ₅₀ | Dermal | Rat | >21900 mg/kg |
| | LC ₅₀ | Inhalation | Rat | >570 mg/m ³ /1 hour |
| | LD ₅₀ | Dermal | Mouse | >18700 mg/kg |
| | LD ₅₀ | Dermal | Rabbit | >10000 mg/kg |

Irritation/Corrosion No data on product formulation.

Sensitization No data on product formulation.

STOT-single exposure No data on product formulation.

STOT-repeated exposure/Repeat-dose toxicity No data on product formulation.

Reproductive toxicity No data on product formulation.

Developmental toxicity No data on product formulation.

Genotoxicity No data on product formulation.

Carcinogenicity No data on product formulation. None of the components of the product/mixture present at levels greater than or equal to 0.1% are listed by NTP, IARC, ACGIH or OSHA as a carcinogen.

Aspiration hazard No data on product formulation.

Human health data See "Section 2 - Other Hazards"

Additional information The toxicological properties of this mixture have not been fully characterized.

SECTION 12 - ECOLOGICAL INFORMATION
Toxicity

| <u>Compound</u> | <u>Type</u> | <u>Species</u> | <u>Concentration</u> |
|-----------------|-------------|----------------|----------------------|
| Glycerol | -- | -- | -- |

Persistence and Degradability No data available.

SECTION 12 - ECOLOGICAL INFORMATION ...continued

| | |
|---|--|
| Bioaccumulative potential | No data available. |
| Mobility in soil | No data available. |
| Results of PBT and vPvB assessment | Not performed. |
| Other adverse effects | No data available. |
| Note | The environmental characteristics of this product/mixture have not been fully investigated. Releases to the environment should be avoided. |

SECTION 13 - DISPOSAL CONSIDERATIONS

| | |
|--------------------------------|--|
| Waste treatment methods | Used product should be disposed of according to local, state, and federal regulations. Do not discharge into sanitary drains (e.g. non-process drains) or down the toilet. All wastes containing the material should be properly labeled. Dispose of wastes in accordance to prescribed federal, state, and local guidelines, e.g., appropriately permitted chemical waste incinerator. Rinse waters resulting from spill cleanups should be discharged in an environmentally safe manner, e.g., appropriately permitted municipal or on-site wastewater treatment facility. |
|--------------------------------|--|

SECTION 14 - TRANSPORT INFORMATION

| | |
|--|--|
| Transport | Based on the available data, this product/mixture is not regulated as a hazardous material/dangerous good under EU ADR/RID, US DOT, Canada TDG, IATA, or IMDG. |
| UN number | None assigned. |
| UN proper shipping name | None assigned. |
| Transport hazard classes and packing group | None assigned. |
| Environmental hazards | Based on the available data, this product/mixture is not regulated as an environmental hazard or a marine pollutant. |
| Special precautions for users | Due to lack of data, avoid release to the environment. |
| Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |

SECTION 15 - REGULATORY INFORMATION

| | |
|---|--|
| Safety, health and environmental regulations/legislation specific for the substance or mixture | This SDS generally complies with the requirements listed under current guidelines in the US, EU and Canada. Consult your local or regional authorities for more information. |
| Chemical safety assessment | Not conducted. |
| TSCA status | Not listed. |
| SARA section 313 | Not listed. |
| California proposition 65 | Not listed. |
| Additional information | No other information identified. |

SECTION 16 - OTHER INFORMATION

| | |
|---|--|
| Full text of H phrases and GHS classifications | Not applicable. |
| Sources of data | Information from published literature and internal company data. |
| Abbreviations | ACGIH - American Conference of Governmental Industrial Hygienists; ADR/RID - European Agreement Concerning the International Carriage of Dangerous Goods by Road/Rail; AIHA - American Industrial Hygiene Association; CAS# - Chemical Abstract Services Number; CLP - Classification, Labelling, and Packaging of Substances and Mixtures; DNEL - Derived No Effect Level; DOT - Department of Transportation; EINECS - European Inventory of New and Existing Chemical Substances; ELINCS - European List of Notified Chemical Substances; EU - European Union; GHS - Globally Harmonized System of Classification and Labeling of Chemicals; IARC - International Agency for Research on Cancer; IDLH - Immediately Dangerous to Life or Health; IATA - International Air Transport Association; IMDG - International Maritime Dangerous Goods; LOEL - Lowest Observed Effect Level; LOAEL - Lowest Observed Adverse Effect Level; NIOSH - The National Institute for Occupational Safety and Health; NOEL - No Observed Effect Level; NOAEL - No Observed Adverse Effect Level; NTP - National Toxicology Program; OEL - Occupational Exposure Limit; OSHA - Occupational Safety and Health Administration; PBT - Persistent, Bioaccumulative, and Toxic; PNEC - Predicted No Effect Concentration; SARA - Superfund Amendments and Reauthorization Act; STOT - Specific Target Organ Toxicity; STEL - Short Term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System |
| Issue Date | November 2020 |
| Revisions | Revision 01: CHG-002775; This is the first version of this SDS. |

SECTION 16 - OTHER INFORMATION ...continued

Disclaimer

Supplier gives no warranty whatsoever, including the warranties of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser shall determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental, consequential or any other damages arising out of the use or misuse of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights. Read the Safety Data Sheet before handling product. For *In Vitro* Diagnostic Use.

SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Contact information

General



Fluidigm Corporation
 2 Tower Place Suite 2000
 South San Francisco, CA 94080
 Main (U.S.): +1 (650) 266-6000
 E-mail: techsupport@fluidigm.com

Emergency telephone number + (650) 266-6100 (outside US)
 + (866) 358-4354 (toll free)

Product identifier Part Numbers: 102-0833; 102-0838, 102-0839, 102-0842, 102-0844

Tube, 4X Assay Loading Reagent
 Tube, Actuation Fluid
 Bottle, Pressure Fluid
 Bottle, Dilution reagent

Synonyms Reagent Kit, Advanta™ Dx SARS-CoV-2 RT-PCR Assay Module 1

Trade names Advanta™ Dx SARS-CoV-2 RT-PCR Assay Reagent Kit, Module 1 (102-0833), Advanta™ Dx ALR, 120 µL (102-0838), Advanta™ Dx PF 1, 1.5 mL (102-0839), Advanta™ Dx PF 2, 2.04 mL (102-0842), Advanta™ Dx Dilution Reagent, 25 mL (102-0844)

Chemical family Mixture

Relevant identified uses of the substance or mixture and uses advised against *In Vitro* Diagnostic Kit.

Note This SDS is written to address potential worker health and safety issues associated with the handling of the formulated product.

SECTION 2 - HAZARDS IDENTIFICATION

Classification of the substance or mixture

Globally Harmonized System [GHS] Not classified

Label elements

SECTION 2 - HAZARDS IDENTIFICATION ...continued

GHS hazard pictogram None required

GHS signal word None required

GHS hazard statements None required

GHS precautionary statements None required

Other hazards The potential health hazards associated with exposure/handling of this mixture are unknown; no data specific for the mixture were identified. The following data describe the hazards of individual ingredients, where applicable.

Note This mixture does not meet criteria for classification under GHS as implemented by Regulation EC No 1272/2008 (EU CLP), WHMIS 2015 (Health Canada), and Hazard Communication Standard No. 1910.1200 (US OSHA). Nevertheless, it should be handled with caution as it has not yet been fully tested.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

| <u>Ingredient</u> | <u>CAS #</u> | <u>EINECS/ELIN CS#</u> | <u>Amount</u> | <u>GHS Classification</u> |
|--------------------------|--------------|----------------------------|---------------|-------------------------------|
| Non-Hazardous Reagent(s) | N/A | N/A | ~100% | Not classified |

Note The principal ingredient in this mixture is PCR water. Any remaining components are not hazardous and/or are present at amounts below reportable limits.

SECTION 4 - FIRST AID MEASURES
Description of first aid measures

Immediate Medical Attention Needed No. If exposed or concerned: Get medical advice/attention.

Eye Contact If easy to do, remove contact lenses, if worn. Immediately flush eyes with copious quantities of water for at least 15 minutes. If irritation occurs or persists, notify medical personnel and supervisor.

Skin Contact Wash exposed area with soap and water and remove contaminated clothing/shoes. If irritation occurs or persists, notify medical personnel and supervisor.

Inhalation Immediately move exposed subject to fresh air. If not breathing, give artificial respiration. If breathing is labored, administer oxygen. Immediately notify medical personnel and supervisor.

SECTION 4 - FIRST AID MEASURES ...continued

| | |
|---|--|
| Ingestion | If swallowed, call a physician immediately. Do not induce vomiting unless directed by medical personnel. Do not give anything to drink unless directed by medical personnel. Never give anything by mouth to an unconscious person. If signs/ symptoms occur, get medical attention. |
| Protection of first aid responders | See Section 8 for Exposure Controls/Personal Protection recommendations. |
| Most important symptoms and effects, both acute and delayed | See Sections 2 and 11. |
| Indication of immediate medical attention and special treatment needed, if necessary | Medical conditions aggravated by exposure: None known or reported. Treat symptomatically and supportively. |

SECTION 5 - FIREFIGHTING MEASURES

| | |
|---|--|
| Extinguishing media | In case of fire in the surroundings: Use water spray (fog), foam, dry powder, or carbon dioxide, as appropriate. |
| Specific hazards arising from the substance or mixture | No information identified. May emit carbon monoxide, carbon dioxide, oxides of nitrogen, fluorine- and chlorine-containing compounds. |
| Flammability/Explosivity | No explosivity or flammability data identified. As product is an aqueous solution, it is not expected to be flammable or explosive. |
| Advice for firefighters | In case of fire in the surroundings: use the appropriate extinguishing agent. Wear full protective clothing and an approved, positive pressure, self-contained breathing apparatus. Wash all equipment thoroughly after use. |

SECTION 6 - ACCIDENTAL RELEASE MEASURES

| | |
|--|--|
| Personal precautions, protective equipment and emergency procedures | If product is released or spilled, take proper precautions to minimize exposure by using appropriate personal protective equipment (see Section 8). Area should be adequately ventilated. Do not breathe mist/vapors/spray. |
| Environmental precautions | Avoid release to the environment. |
| Methods and material for containment and cleaning up | For small spills, soak up material with absorbent, e.g., paper towels. For large spills, cordon off spill area and minimize the spreading of spilled material. Soak up material with absorbent. Collect spilled material, absorbent, and rinse water into suitable containers for proper disposal in accordance with applicable waste disposal regulations (see Section 13). Decontaminate the area twice. |

SECTION 6 - ACCIDENTAL RELEASE MEASURES ...continued

Reference to other sections See Sections 8 and 13 for more information.

SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling Follow recommendations for handling pharmaceutical agents (i.e., use of engineering controls and/or other personal protective equipment if needed). Avoid contact with eyes, skin and other mucous membranes. Wash thoroughly after handling. Avoid breathing vapor/mist/spray.

Conditions for safe storage including any incompatibilities Store at -15 °C to -25 °C.

Specific end use(s) *In Vitro* Diagnostic Kit.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Note Dispose of broken vials/syringes in a sharps container.

Control Parameters/Occupational Exposure Limit Values

| <u>Compound</u> | <u>Issuer</u> | <u>Type</u> | <u>OEL</u> |
|--------------------------|---------------|-------------|------------|
| Non-Hazardous Reagent(s) | -- | -- | -- |

Exposure/Engineering controls Selection and use of containment devices and personal protective equipment should be based on a risk assessment of exposure potential. Use local exhaust and/or enclosure at aerosol/mist-generating points. Emphasis is to be placed on closed material transfer systems and process containment, with limited open handling.

Respiratory protection Choice of respiratory protection should be appropriate to the task and the level of existing engineering controls. An approved and properly fitted air-purifying respirator with HEPA filters may be considered to provide ancillary protection based on the known or foreseeable limitations of existing engineering controls.

Hand protection Wear nitrile or other impervious gloves if skin contact is possible. Double gloves should be considered.

Skin protection Wear appropriate gloves, lab coat, or other protective overgarment if skin contact is likely. Base the choice of skin protection on the job activity, potential for skin contact and solvents and reagents in use.

Eye/face protection Wear safety glasses with side shields, chemical splash goggles, or full face shield, if necessary. Base the choice of protection on the job activity and potential for contact with eyes or face. An emergency eye wash station should be available

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION ...continued

| | |
|--|---|
| Environmental Exposure Controls | Avoid release to the environment and operate within closed systems wherever practicable. Air and liquid emissions should be directed to appropriate pollution control devices. In case of spill, do not release to drains. Implement appropriate and effective emergency response procedures to prevent release or spread of contamination and to prevent inadvertent contact by personnel. |
| Other protective measures | Wash hands in the event of contact with this product/mixture, especially before eating, drinking or smoking. Protective equipment is not to be worn outside the work area (e.g., in common areas or out-of-doors). |

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES
Information on basic physical and chemical properties

| | |
|---|----------------------------|
| Appearance | Liquid |
| Color | Clear, colorless |
| Odor | No information identified. |
| Odor threshold | No information identified. |
| pH | No information identified. |
| Melting point/freezing point | No information identified. |
| Initial boiling point and boiling range | No information identified. |
| Flash point | No information identified. |
| Evaporation rate | No information identified. |
| Flammability (solid, gas) | No information identified. |
| Upper/lower flammability or explosive limits | No information identified. |
| Vapor pressure | No information identified. |
| Vapor density | No information identified. |
| Relative density | No information identified. |
| Water solubility | Miscible in water |
| Solvent solubility | No information identified. |

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ...continued

| | |
|---|----------------------------|
| Partition coefficient (<i>n</i>-octanol/water) | No information identified. |
| Auto-ignition temperature | No information identified. |
| Decomposition temperature | No information identified. |
| Viscosity | No information identified. |
| Explosive properties | No information identified. |
| Oxidizing properties | No information identified. |

Other information

| | |
|--------------------------|--------------------------|
| Molecular formula | Not applicable (Mixture) |
| Molecular weight | Not applicable (Mixture) |

SECTION 10 - STABILITY AND REACTIVITY

| | |
|---|----------------------------|
| Reactivity | No information identified. |
| Chemical stability | No information identified. |
| Possibility of hazardous reactions | Not expected to occur. |
| Conditions to avoid | No information identified. |
| Incompatible materials | No information identified. |
| Hazardous decomposition products | No information identified. |

SECTION 11 - TOXICOLOGICAL INFORMATION

Note No data for this product/mixture were identified. The following data describe the active ingredient and/or the individual ingredients where applicable.

Information on toxicological effects

Route of entry May be absorbed by inhalation, skin contact and ingestion.

Acute toxicity

| <u>Compound</u> | <u>Type</u> | <u>Route</u> | <u>Species</u> | <u>Dose</u> |
|--------------------------|-------------|--------------|----------------|-------------|
| Non-Hazardous Reagent(s) | -- | -- | -- | -- |

SECTION 11 - TOXICOLOGICAL INFORMATION ...continued

| | |
|--|---|
| Irritation/Corrosion | No data on product formulation. |
| Sensitization | No data on product formulation. |
| STOT-single exposure | No data on product formulation. |
| STOT-repeated exposure/Repeat-dose toxicity | No data on product formulation. |
| Reproductive toxicity | No data on product formulation. |
| Developmental toxicity | No data on product formulation. |
| Genotoxicity | No data on product formulation. |
| Carcinogenicity | No data on product formulation. None of the components of the product present at levels greater than or equal to 0.1% are listed by NTP, IARC, ACGIH or OSHA as a carcinogen. |
| Aspiration hazard | No data on product formulation. |
| Human health data | See "Section 2 - Other Hazards" |
| Additional information | The toxicological properties of this mixture have not been fully characterized. |

SECTION 12 - ECOLOGICAL INFORMATION
Toxicity

| <u>Compound</u> | <u>Type</u> | <u>Species</u> | <u>Concentration</u> |
|--------------------------|-------------|----------------|----------------------|
| Non-Hazardous Reagent(s) | -- | -- | -- |

Persistence and Degradability No data on product formulation.

Bioaccumulative potential No data on product formulation.

Mobility in soil No data on product formulation.

Results of PBT and vPvB assessment Not performed.

Other adverse effects No data on product formulation.

Note The environmental characteristics of this product/mixture have not been fully investigated. Releases to the environment should be avoided.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste treatment methods Used product should be disposed of according to local, state, and federal regulations. Do not discharge into sanitary drains (e.g. non-process drains) or down the toilet. All wastes containing the material should be properly labeled. Dispose of wastes in accordance to prescribed federal, state, and local guidelines, e.g., appropriately permitted chemical waste incinerator. Rinse waters resulting from spill cleanups should be discharged in an environmentally safe manner, e.g., appropriately permitted municipal or on-site wastewater treatment facility.

SECTION 14 - TRANSPORT INFORMATION

Transport Based on the available data, this product/mixture is not regulated as a hazardous material/dangerous good under EU ADR/RID, US DOT, Canada TDG, IATA, or IMDG.

UN number None assigned.

UN proper shipping name None assigned.

Transport hazard classes and packing group None assigned.

Environmental hazards Based on the available data, this product/mixture is not regulated as an environmental hazard or a marine pollutant.

Special precautions for users Due to lack of data, avoid release to the environment.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

SECTION 15 - REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture This SDS generally complies with the requirements listed under current guidelines in the US, EU and Canada. Consult your local or regional authorities for more information.

Chemical safety assessment Not conducted.

TSCA status Not listed.

SARA section 313 Not listed.

California proposition 65 Not listed.

SECTION 15 - REGULATORY INFORMATION ...continued

Additional information No other information identified.

SECTION 16 - OTHER INFORMATION

Full text of H phrases and GHS classifications Not applicable.

Sources of data Information from published literature and internal company data.

Abbreviations ACGIH - American Conference of Governmental Industrial Hygienists; ADR/RID - European Agreement Concerning the International Carriage of Dangerous Goods by Road/Rail; AIHA - American Industrial Hygiene Association; CAS# - Chemical Abstract Services Number; CLP - Classification, Labelling, and Packaging of Substances and Mixtures; DNEL - Derived No Effect Level; DOT - Department of Transportation; EINECS - European Inventory of New and Existing Chemical Substances; ELINCS - European List of Notified Chemical Substances; EU - European Union; GHS - Globally Harmonized System of Classification and Labeling of Chemicals; IARC - International Agency for Research on Cancer; IDLH - Immediately Dangerous to Life or Health; IATA - International Air Transport Association; IMDG - International Maritime Dangerous Goods; LOEL - Lowest Observed Effect Level; LOAEL - Lowest Observed Adverse Effect Level; NIOSH - The National Institute for Occupational Safety and Health; NOEL - No Observed Effect Level; NOAEL - No Observed Adverse Effect Level; NTP - National Toxicology Program; OEL - Occupational Exposure Limit; OSHA - Occupational Safety and Health Administration; PBT - Persistent, Bioaccumulative, and Toxic; PNEC - Predicted No Effect Concentration; SARA - Superfund Amendments and Reauthorization Act; STOT - Specific Target Organ Toxicity; STEL - Short Term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Issue Date November 2020

Revisions Revision 01: CHG-002775; This is the first version of this SDS.

Disclaimer Supplier gives no warranty whatsoever, including the warranties of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser shall determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental, consequential or any other damages arising out of the use or misuse of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights. Read the Safety Data Sheet before handling product. For *In Vitro* Diagnostic Use.