

# SAFETY DATA SHEET

**Product Identifier: Advanta™ IO Gene Expression Reagent Kit—GE 96.96**  
**Catalog ID numbers: 101-7673, 101-7791, 101-7792, 101-7793**

**SDS ID: 101-7802 Revision A1**

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

### Contact information

<b>General</b>	Fluidigm Corporation 7000 Shoreline Court Suite 100, South San Francisco, CA 94080 Main (U.S.): +1 (650) 266-6000 E-mail: techsupport@fluidigm.com
<b>Emergency telephone number</b>	+ (650) 266-6100 (outside US) + (866) 358-4354 (toll free)

<b>Product identifier</b>	Advanta™ IO Gene Expression Reagent Kit—GE 96.96
<b>Synonyms</b>	None identified
<b>Trade names</b>	None identified
<b>Chemical family</b>	Mixture – bovine serum albumin or formamide
<b>Relevant identified uses of the substance or mixture and uses advised against</b>	<i>For Research Use Only. Not for use of diagnostic procedures.</i>
<b>Note</b>	This SDS is written to address potential health and safety issues associated with the handling of the formulated product.

## SECTION 2 - HAZARDS IDENTIFICATION


**This product contains thirteen (13) parts. The following provides the hazard classification for each part.**

### Part 1: 20x GE Sample Loading Reagent (Part #: 100-6311)

#### Classification of the substance or mixture

<b>Globally Harmonized System [GHS]</b>	Skin sensitizer - Category 1. Respiratory sensitizer - Category 1.
---	--

#### Label elements

<b>GHS hazard pictogram</b>	
-----------------------------	---

<b>GHS signal word</b>	Danger
------------------------	--------

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

<b>GHS precautionary statements</b>	P261 - Avoid breathing mist or vapor. P272 - Contaminated work clothing should not be allowed out of the workplace. P302 + P352 - IF ON SKIN: Wash with plenty of soap and water. P304 + P340 - IF INHALED: 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. P362 + P364 - Take off contaminate clothing and wash it before reuse. P501 - Dispose of contents/container to location in accordance with local/regional/national/international regulations.
-------------------------------------	---

<b>Other hazards</b>	Mixture - contains bovine serum albumin. May cause respiratory sensitization. Part/mixture not yet fully tested.
----------------------	--

# SAFETY DATA SHEET

**Product Identifier: Advanta™ IO Gene Expression Reagent Kit—GE 96.96**  
**Catalog ID numbers: 101-7673, 101-7791, 101-7792, 101-7793**

**SDS ID: 101-7802 Revision A1**

**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). The pharmacological, toxicological, and ecological properties of this part/mixture have not been fully characterized.

**Part 2: Rgt Kit, Advanta™ IO Gene Expression Assay - Panel A (Part #: 101-7403)**  
**Part 3: Rgt Kit, Advanta™ IO Gene Expression Assay - Panel B (Part #: 101-7404)**  
**Part 4: Rgt Kit, Advanta™ IO Gene Expression Preamp Pool—Panel A (101-7674)**  
**Part 5: Rgt Kit, Advanta™ IO Gene Expression Preamp Pool—Panel B (101-7675)**

**Classification of the substance or mixture**

**Globally Harmonized System [GHS]** Reproductive Toxicity - Category 1B.

**Label elements**

**GHS hazard pictogram**



**GHS signal word** Danger

**GHS hazard statements** H360FD - May damage fertility. May damage the unborn child.

**GHS precautionary statements** P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves/eye protection/face protection. P308 + P313 - IF exposed or concerned: get medical advice/attention. P405 - Store locked up. P501 - Dispose of contents/container to location in accordance with local/regional/national/international regulations.

**Other hazards** Mixture - contains formamide. May cause irritation. Part/mixture not yet fully tested.

**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). The pharmacological, toxicological, and ecological properties of this part/mixture have not been fully characterized.

<b>Part description and number</b>	<b>GHS Hazard Classification</b>
<b>Part 6: Bottle, Rehydration Solution (101-7408)</b>	None required.
<b>Part 7: Tube, PreAmp Master Mix (100-5744)</b>	None required.
<b>Part 8: Tube, PCR Water (100-5941)</b>	None required.
<b>Part 9: Tube, Reverse Transcription Master Mix (100-6297)</b>	None required.
<b>Part 10: Bottle, DNA Dilution Reagent (100-9167)</b>	None required.
<b>Part 11: Tube, Gene Expression Master Mix (2x) (101-5852)</b>	None required.
<b>Part 12: Tube, 2X Assay Loading Reagent (85000736)</b>	None required.
<b>Part 13: 96.96 Control Line Fluid Kit – 2 IFC (101-6334)</b>	None required.

**Other hazards** Parts of the kit may cause irritation. Part/mixture not yet fully tested.

**Note** Parts 6-13 are not 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). The pharmacological, toxicological, and ecological properties of this part/mixture have not been fully characterized.

**SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS**

**Part 1: 20x GE Sample Loading Reagent (Part #: 100-6311)**

<u>Ingredient</u>	<u>CAS #</u>	<u>EINECS/ ELINCS#</u>	<u>Amount</u>	<u>GHS Classification</u>
Bovine serum albumin	9048-46-8	N/A	5-10%	SS1: H317; RS1: H334

# SAFETY DATA SHEET

**Product Identifier: Advanta™ IO Gene Expression Reagent Kit—GE 96.96**  
**Catalog ID numbers: 101-7673, 101-7791, 101-7792, 101-7793**

**SDS ID: 101-7802 Revision A1**

**Note** Bovine serum albumin is considered hazardous. The remaining components are non-hazardous and/or present at amounts below reportable limits. See Section 16 for full text of GHS classifications.

**Part 2: Rgt Kit, Advanta™ IO Gene Expression Assay - Panel A (Part #: 101-7403)**  
**Part 3: Rgt Kit, Advanta™ IO Gene Expression Assay - Panel B (Part #: 101-7404)**  
**Part 4: Rgt Kit, Advanta™ IO Gene Expression Preamp Pool—Panel A (101-7674)**  
**Part 5: Rgt Kit, Advanta™ IO Gene Expression Preamp Pool—Panel B (101-7675)**

<u>Ingredient</u>	<u>CAS #</u>	<u>EINECS/ ELINCS#</u>	<u>Amount</u>	<u>GHS Classification</u>
Formamide	75-12-7	200-842-0	≤0.5%	Carc2:H351; RT1B:H360FD; STOT-R2:H373

**Note** Formamide is considered hazardous. The remaining components are non-hazardous and/or present at amounts below reportable limits. See Section 16 for full text of GHS classifications.

**Part 6-13**

<u>Tube Description</u>	<u>CAS #</u>	<u>EINECS/ ELINCS#</u>	<u>Amount</u>	<u>GHS Classification</u>
Part 6: Bottle, Rehydration Solution (Part #: 101-7408)	N/A (mixture)	N/A	~100%	Not classified
Part 7: Tube, PreAmp Master Mix (Part #: 100-5744)	N/A (mixture)	N/A	~100%	Not classified
Part 8: Tube, PCR Water (Part #: 100-5941)	N/A (mixture)	N/A	~100%	Not classified
Part 9: Tube, Reverse Transcription Master Mix (Part #: 100-6297)	N/A (mixture)	N/A	~100%	Not classified
Part 10: Bottle, DNA Dilution Reagent (Part #: 100-9167)	N/A (mixture)	N/A	~100%	Not classified
Part 11: Tube, Gene Expression Master Mix (2x) (Part #: 101-5852)	N/A (mixture)	N/A	~100%	Not classified
Part 12: Tube, 2X Assay Loading Reagent (Part #: 85000736)	N/A (mixture)	N/A	~100%	Not classified
Part 13: 96.96 Control Line Fluid Kit – 2 IFC (Part #: 101-6334)	N/A (mixture)	N/A	~100%	Not classified

**Note** The components within Parts 6-13 are non-hazardous and/or present at amounts below reportable limits.

---

## SECTION 4 - FIRST AID MEASURES

---

**Description of first aid measures**

<b>Immediate Medical Attention Needed</b>	Yes
<b>Eye Contact</b>	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.
<b>Skin Contact</b>	Wash exposed area with soap and water and remove contaminated clothing/shoes. If irritation occurs or persists, notify medical personnel and supervisor.
<b>Inhalation</b>	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.
<b>Ingestion</b>	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.

# SAFETY DATA SHEET

Product Identifier: Advanta™ IO Gene Expression Reagent Kit—GE 96.96  
Catalog ID numbers: 101-7673, 101-7791, 101-7792, 101-7793

SDS ID: 101-7802 Revision A1

<b>Protection of first aid responders</b>	See Section 8 for Exposure Controls/Personal Protection recommendations.
<b>Most important symptoms and effects, both acute and delayed</b>	See Sections 2 and 11.
<b>Indication of immediate medical attention and special treatment needed, if necessary</b>	Certain parts of the kit contain low levels of bovine serum albumin or formamide. Medical conditions aggravated by exposure: None known or reported. Treat symptomatically and supportively.

---

## SECTION 5 - FIREFIGHTING MEASURES

---

<b>Extinguishing media</b>	Use water spray (fog), foam, dry powder, or carbon dioxide, as appropriate for surrounding fire and materials.
<b>Specific hazards arising from the substance or mixture</b>	No information identified. May emit carbon monoxide, carbon dioxide, oxides of nitrogen and sulfur, metal-containing compounds, and other nitrogen-, sulfur- or fluorine-containing compounds.
<b>Flammability/Explosivity</b>	No information identified.
<b>Advice for firefighters</b>	Wear full protective clothing and a self-contained breathing apparatus with a full facepiece operated in the pressure demand or other positive pressure mode. Decontaminate all equipment after use.

---

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

---

<b>Personal precautions, protective equipment and emergency procedures</b>	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.
--	---

---

## SECTION 6 - ACCIDENTAL RELEASE MEASURES ...continued

---

<b>Environmental precautions</b>	Do not empty into drains. Avoid release to the environment.
<b>Methods and material for containment and cleaning up</b>	If vials are crushed or broken, 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.
<b>Reference to other sections</b>	See Sections 8 and 13 for more information.

---

## SECTION 7 - HANDLING AND STORAGE

---

<b>Precautions for safe handling</b>	Avoid breathing dust/mist/vapor/spray. Do not permit eating/drinking/smoking near this material.
<b>Conditions for safe storage including any incompatibilities</b>	Store in a well-ventilated area; keep container upright and tightly closed.
<b>Specific end use(s)</b>	No information identified.

---

## SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

---

<b>Note</b>	Dispose of broken tubes/syringes in a sharps container.
-------------	---

# SAFETY DATA SHEET

**Product Identifier: Advanta™ IO Gene Expression Reagent Kit—GE 96.96**  
**Catalog ID numbers: 101-7673, 101-7791, 101-7792, 101-7793**

**SDS ID: 101-7802 Revision A1**

**Control Parameters/Occupational Exposure Limit Values**

<u>Compound</u>	<u>Issuer</u>	<u>Type</u>	<u>OEL</u>
Bovine serum albumin	--	--	--
Formamide	ACGIH, British Columbia, Ontario	TWA	10 ppm (15 mg/m <sup>3</sup> ) skin
	NIOSH	REL	10 ppm (15 mg/m <sup>3</sup> ) skin
	United Kingdom	TWA	20 ppm (37 mg/m <sup>3</sup> )
	United Kingdom	STEL	30 ppm (56 mg/m <sup>3</sup> )
	France	VME	30 mg/m <sup>3</sup>

**Exposure/Engineering controls**

None required for normal handling of packaged product. 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. Use engineered local exhaust ventilation (LEV) and/or enclosure for procedures where aerosolization may occur such as opened transfers, pumping, and spraying. Solutions can be handled outside a containment system or without LEV during procedures with no potential for aerosolization. All containers for solutions and slurries must be covered while being transferred.

**Respiratory protection**

None required for normal handling of packaged product. If vials are crushed or broken: Choice of respiratory protection should be appropriate to the task and the level of existing engineering controls. Choice of respiratory protection should be appropriate to the task and the level of existing engineering controls. At a minimum, a tight-fitting full-face respirator with HEPA filters is required when performing aerosol generating operations. A powered air-purifying respirator (PAPR) with HEPA filters and head cover is required for spill cleanup.

**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 substance, 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**

<b>Appearance</b>	Liquids (supplied as individually packaged reagents)
<b>Color</b>	No information identified.
<b>Odor</b>	No information identified.
<b>Odor threshold</b>	No information identified.
<b>pH</b>	No information identified.

# SAFETY DATA SHEET

**Product Identifier: Advanta™ IO Gene Expression Reagent Kit—GE 96.96**  
**Catalog ID numbers: 101-7673, 101-7791, 101-7792, 101-7793**

**SDS ID: 101-7802 Revision A1**

<b>Melting point/freezing point</b>	No information identified.
<b>Initial boiling point and boiling range</b>	No information identified.
<b>Flash point</b>	No information identified.
<b>Evaporation rate</b>	No information identified.
<b>Flammability (solid, gas)</b>	No information identified.
<b>Upper/lower flammability or explosive limits</b>	No information identified.
<b>Vapor pressure</b>	No information identified.
<b>Vapor density</b>	No information identified.
<b>Relative density</b>	No information identified.
<b>Water solubility</b>	No information identified.
<b>Solvent solubility</b>	No information identified.
<b>Partition coefficient (<i>n</i>-octanol/water)</b>	No information identified.
<b>Auto-ignition temperature</b>	No information identified.
<b>Decomposition temperature</b>	No information identified.
<b>Viscosity</b>	No information identified.
<b>Explosive properties</b>	No information identified.
<b>Oxidizing properties</b>	No information identified.

**Other information**

<b>Molecular weight</b>	Not applicable (Mixture)
<b>Molecular formula</b>	Not applicable (Mixture)

---

**SECTION 10 - STABILITY AND REACTIVITY**

---

<b>Reactivity</b>	No information identified.
<b>Chemical stability</b>	Stable when stored as recommended.
<b>Possibility of hazardous reactions</b>	No information identified.
<b>Conditions to avoid</b>	No information identified.
<b>Incompatible materials</b>	No information identified.
<b>Hazardous decomposition products</b>	No information identified.

---

**SECTION 11 - TOXICOLOGICAL INFORMATION**

---

**Note** No data were identified for the product/mixture. The following information is for the individual hazardous ingredients contained in some parts of the kit.

**Information on toxicological effects**

# SAFETY DATA SHEET

Product Identifier: Advanta™ IO Gene Expression Reagent Kit—GE 96.96  
 Catalog ID numbers: 101-7673, 101-7791, 101-7792, 101-7793

SDS ID: 101-7802 Revision A1

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

**Acute toxicity**

Compound	Type	Route	Species	Dose
Bovine serum albumin	--	--	--	--
Formamide	LD <sub>50</sub>	Oral	Rat	4000 mg/kg
	LD <sub>50</sub>	Oral	Mouse	2450 mg/kg
	LD <sub>50</sub>	IV	Rat	5600 mg/kg
	LD <sub>50</sub>	IV	Mouse	5100 mg/kg
	LD <sub>50</sub>	Inhalation	Rat	>3900 ppm/6H
	LD <sub>50</sub>	Inhalation	Mouse	11000 mg/m <sup>3</sup>
	LD <sub>50</sub>	Dermal	Rabbit	6000 mg/kg

**Irritation/Corrosion** Formamide was not irritating to rabbit skin and caused a mild, temporary eye irritation.

**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 studies identified.

**STOT-repeated exposure/Repeat-dose toxicity** In a 3-month oral study in rats with formamide, dose-related increases in hematocrit values, hemoglobin concentrations, and red blood cell counts were reported at 10-160 mg/kg, 5 days/week. The incidences of degeneration of the germinal epithelium of the testes and epididymis were significantly increased in 160 mg/kg males. In a 3-month oral study in mice with formamide, no adverse effects were reported at any dose up to a maximum of 160 mg/kg, 5 days per week.

In a 2-week rat inhalation study with formamide, histopathological changes in the kidneys, and reduced platelet counts were seen at 1500 ppm, 6 hours/day, 5 day/week (highest dose). Rats at 500 ppm showed reduced platelet counts only. The no-observed-adverse-effect concentration (NOAEC) was 100 ppm (~0.19 mg/kg).

**Reproductive toxicity** In a 2-generation oral study in mice with formamide, dietary doses of 750 ppm (~200 mg/kg/day) decreased female fertility across several generations. The reported NOAELs in female and males were ~100 and ~200 mg/kg/day, respectively.

**Developmental toxicity** Formamide was administered orally to pregnant rats in two studies during gestation days (GD) 6-19. In the first study, reduced fetal body weights were reported at ≥125 mg/kg/day, with maternal toxicity at ≥250 mg/kg/day. The developmental and maternal NOAELs were 62 and 125 mg/kg/day, respectively. In the second study, embryofetal malformations and/or variations, increased resorptions and fetal loss, and reduced litter sizes were reported at ≥100 mg/kg/day, with maternal toxicity at 200 mg/kg/day. The developmental and maternal NOAELs were 50 and 100 mg/kg/day, respectively.

**Genotoxicity** Formamide was negative for mutagenicity in an Ames assay with and without metabolic activation. *In vivo*, an increased incidence of micronuclei was reported in mice at high doses (≥900 mg/kg). Overall, the weight of evidence suggests a low potential for genotoxicity.

**Carcinogenicity** In a 2-year study in mice with formamide, liver hemangiosarcoma was reported at oral doses ≥40 mg/kg/day. At 80 mg/kg/day, increased incidences of benign and malignant liver tumors were reported. No carcinogenic effects were observed in a 2-year rat study at oral doses up to a maximum of 80 mg/kg/day. The ingredients in this product/mixture are not listed by NTP, IARC, ACGIH or OSHA as a carcinogen.

**Aspiration hazard** No data available.

**Human health data** See Section 2 - "Other hazards"

---

## SECTION 12 - ECOLOGICAL INFORMATION

---

**Toxicity**

Compound	Type	Species	Concentration
----------	------	---------	---------------



# SAFETY DATA SHEET

**Product Identifier: Advanta™ IO Gene Expression Reagent Kit—GE 96.96**  
**Catalog ID numbers: 101-7673, 101-7791, 101-7792, 101-7793**

**SDS ID: 101-7802 Revision A1**

Bovine serum albumin	--	--	--
Formamide	--	--	--

**Persistence and Degradability** No data identified.

**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. The above data are for the active ingredient and/or any other ingredient(s) where applicable. Releases to the environment should be avoided.

## SECTION 13 - DISPOSAL CONSIDERATIONS

**Waste treatment methods** Dispose of wastes in accordance to prescribed federal, state, and local guidelines, e.g., appropriately permitted chemical waste incinerator. Do not send down the drain or flush down the toilet. All wastes containing the material should be properly labeled. 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** No special precautions needed. 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** Formamide is listed. The remaining components of this product/mixture are not listed.

**SARA section 313** Not listed.

**California proposition 65** Formamide is considered, but not listed. The remaining components of this product/mixture are not listed.



# SAFETY DATA SHEET

**Product Identifier: Advanta™ IO Gene Expression Reagent Kit—GE 96.96**  
**Catalog ID numbers: 101-7673, 101-7791, 101-7792, 101-7793**

**SDS ID: 101-7802 Revision A1**

**Component Analysis – State** Formamide is listed as hazardous in CA, HI, MA, MI, MN, NJ, PA, RI, VT, and WA. The remaining components of this product/mixture are not listed.

**Component Analysis – Chemical Inventory** Bovine serum albumin and formamide are listed in the chemical inventory of the following countries: Australia, Canada, China, EU, New Zealand, and the Philippines.

**Additional information** No other information identified.

## SECTION 16 - OTHER INFORMATION

<b>NFPA Ratings</b>	<b>Bovine serum albumin</b>	<b>Health: 1</b>	<b>Fire: 0</b>	<b>Reactivity: 0</b>
	<b>Formamide</b>	<b>Health: 2</b>	<b>Fire: 1</b>	<b>Reactivity: 0</b>

**Full text of H phrases and GHS classifications** SS1 - Skin sensitizer Category 1. H317 - May cause an allergic skin sensitization. RS1 - Respiratory Sensitizer Category 1. H334 - May cause allergic or asthmatic symptoms or breathing difficulty if inhaled. Carc2 - Carcinogenicity Category 2. H351 - Suspected of causing cancer. RT1B - Reproductive toxicity Category 1B. H360FD - May damage fertility. May damage the unborn child. STOT-R2 - Specific Target Organ Toxicity Following Repeated Exposure Category 2. H373 - May cause damage to organs through prolonged or repeated exposure.

**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; CA - California; 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; HI - Hawaii; 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; MA - Massachusetts; MN - Minnesota; NJ - New Jersey; 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; PA - Pennsylvania; PNEC - Predicted No Effect Concentration; RI - Rhode Island; SARA - Superfund Amendments and Reauthorization Act; STEL - Short Term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; VT - Vermont; WA - Washington; WHMIS - Workplace Hazardous Materials Information System

**Revisions** Revision A (SSF) ECN-2944; Refer to PDM for date released; 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 Material Safety Data Sheet before handling product. For Research Use Only. Not for use in diagnostic procedures.