

SAFETY DATA SHEET

Flow Cytometer (NovoCyte, Advanteon, Quanteon) Startup Kit, Part Number 8100001

Section 1. Identification

Product identifier	: Flow Cytometer (NovoCyte, Advanteon, Quanteon) Startup Kit, Part Number 8100001
Part no. (chemical kit)	: 8100001
Part no.	: <input checked="" type="checkbox"/> NovoRinse solution 872B603C NovoFlow sheath fluid 875B601C
Material uses	: For research use only. Not for use in diagnostic procedures (RUO). <input checked="" type="checkbox"/> NovoRinse solution 1 x 500 ml NovoFlow sheath fluid 1 x 10 L
Supplier/Manufacturer	: Agilent Technologies, Inc. 5301 Stevens Creek Blvd Santa Clara, CA 95051, USA 800-227-9770
Emergency telephone number (with hours of operation)	: CHEMTREC®: 1-800-424-9300

Section 2. Hazard identification

Classification of the substance or mixture

Not classified.

GHS label elements

Signal word	: <input checked="" type="checkbox"/> NovoRinse solution NovoFlow sheath fluid	No signal word. No signal word.
Hazard statements	: <input checked="" type="checkbox"/> NovoRinse solution NovoFlow sheath fluid	No known significant effects or critical hazards. No known significant effects or critical hazards.
<u>Precautionary statements</u>		
Prevention	: <input checked="" type="checkbox"/> NovoRinse solution NovoFlow sheath fluid	Not applicable. Not applicable.
Response	: <input checked="" type="checkbox"/> NovoRinse solution NovoFlow sheath fluid	Not applicable. Not applicable.
Storage	: <input checked="" type="checkbox"/> NovoRinse solution NovoFlow sheath fluid	Not applicable. Not applicable.
Disposal	: <input checked="" type="checkbox"/> NovoRinse solution NovoFlow sheath fluid	Not applicable. Not applicable.
Supplemental label elements	: <input checked="" type="checkbox"/> NovoRinse solution NovoFlow sheath fluid	None known. None known.
Other hazards which do not result in classification	: <input checked="" type="checkbox"/> NovoRinse solution NovoFlow sheath fluid	None known. None known.

Section 3. Composition/information on ingredients

Substance/mixture : NovoRinse solution Mixture
NovoFlow sheath fluid Mixture

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-aid measures

Description of necessary first aid measures

Eye contact	: NovoRinse solution	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	NovoFlow sheath fluid	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	: NovoRinse solution	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	NovoFlow sheath fluid	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	: NovoRinse solution	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	NovoFlow sheath fluid	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: NovoRinse solution	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	NovoFlow sheath fluid	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	: NovoRinse solution	No known significant effects or critical hazards.
	NovoFlow sheath fluid	No known significant effects or critical hazards.
Inhalation	: NovoRinse solution	No known significant effects or critical hazards.
	NovoFlow sheath fluid	No known significant effects or critical hazards.
Skin contact	: NovoRinse solution	No known significant effects or critical hazards.
	NovoFlow sheath fluid	No known significant effects or critical hazards.
Ingestion	: NovoRinse solution	No known significant effects or critical hazards.
	NovoFlow sheath fluid	No known significant effects or critical hazards.

Section 4. First-aid measures

Over-exposure signs/symptoms

Eye contact	: NovoRinse solution NovoFlow sheath fluid	No specific data. No specific data.
Inhalation	: NovoRinse solution NovoFlow sheath fluid	No specific data. No specific data.
Skin contact	: NovoRinse solution NovoFlow sheath fluid	No specific data. No specific data.
Ingestion	: NovoRinse solution NovoFlow sheath fluid	No specific data. No specific data.

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

Notes to physician	: NovoRinse solution NovoFlow sheath fluid	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: NovoRinse solution NovoFlow sheath fluid	No specific treatment. No specific treatment.
Protection of first-aiders	: NovoRinse solution NovoFlow sheath fluid	No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media	: NovoRinse solution NovoFlow sheath fluid	Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: NovoRinse solution NovoFlow sheath fluid	None known. None known.
Specific hazards arising from the chemical	: NovoRinse solution NovoFlow sheath fluid	In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: NovoRinse solution NovoFlow sheath fluid	No specific data. No specific data.
Special protective actions for fire-fighters	: NovoRinse solution NovoFlow sheath fluid	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Section 5. Fire-fighting measures

Special protective equipment for fire-fighters	: NovoRinse solution	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	NovoFlow sheath fluid	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: NovoRinse solution	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
	NovoFlow sheath fluid	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
For emergency responders	: NovoRinse solution	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	NovoFlow sheath fluid	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	: NovoRinse solution	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	NovoFlow sheath fluid	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
<u>Methods and materials for containment and cleaning up</u>		
Methods for cleaning up	: NovoRinse solution	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	NovoFlow sheath fluid	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

Precautions for safe handling

Protective measures	:  NovoRinse solution	Put on appropriate personal protective equipment (see Section 8).
	NovoFlow sheath fluid	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	:  NovoRinse solution	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	NovoFlow sheath fluid	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:  NovoRinse solution	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
	NovoFlow sheath fluid	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

 None.

Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Section 8. Exposure controls/personal protection

Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Appearance

- | | | |
|---|---|------------------------------------|
| Physical state | : <input checked="" type="checkbox"/> NovoRinse solution
<input checked="" type="checkbox"/> NovoFlow sheath fluid | Liquid.
Liquid. |
| Color | : <input checked="" type="checkbox"/> NovoRinse solution
<input checked="" type="checkbox"/> NovoFlow sheath fluid | Colorless.
Colorless. |
| Odor | : <input checked="" type="checkbox"/> NovoRinse solution
<input checked="" type="checkbox"/> NovoFlow sheath fluid | Not available.
Not available. |
| Odor threshold | : <input checked="" type="checkbox"/> NovoRinse solution
<input checked="" type="checkbox"/> NovoFlow sheath fluid | Not available.
Not available. |
| pH | : <input checked="" type="checkbox"/> NovoRinse solution
<input checked="" type="checkbox"/> NovoFlow sheath fluid | Not available.
7 |
| Melting point | : <input checked="" type="checkbox"/> NovoRinse solution
<input checked="" type="checkbox"/> NovoFlow sheath fluid | 0°C (32°F)
0°C (32°F) |
| Boiling point | : <input checked="" type="checkbox"/> NovoRinse solution
<input checked="" type="checkbox"/> NovoFlow sheath fluid | 100°C (212°F)
100°C (212°F) |
| Flash point | : <input checked="" type="checkbox"/> NovoRinse solution
<input checked="" type="checkbox"/> NovoFlow sheath fluid | Not available.
Not available. |
| Evaporation rate | : <input checked="" type="checkbox"/> NovoRinse solution
<input checked="" type="checkbox"/> NovoFlow sheath fluid | Not available.
Not available. |
| Flammability (solid, gas) | : <input checked="" type="checkbox"/> NovoRinse solution
<input checked="" type="checkbox"/> NovoFlow sheath fluid | Not applicable.
Not applicable. |
| Lower and upper explosive (flammable) limits | : <input checked="" type="checkbox"/> NovoRinse solution
<input checked="" type="checkbox"/> NovoFlow sheath fluid | Not available.
Not available. |
| Vapor pressure | : <input checked="" type="checkbox"/> NovoRinse solution
<input checked="" type="checkbox"/> NovoFlow sheath fluid | Not available.
Not available. |

Section 9. Physical and chemical properties

Vapor density	: <input checked="" type="checkbox"/> NovoRinse solution <input checked="" type="checkbox"/> NovoFlow sheath fluid	Not available. Not available.
Relative density	: <input checked="" type="checkbox"/> NovoRinse solution <input checked="" type="checkbox"/> NovoFlow sheath fluid	Not available. Not available.
Solubility	: <input checked="" type="checkbox"/> NovoRinse solution <input checked="" type="checkbox"/> NovoFlow sheath fluid	Soluble in the following materials: cold water and hot water. Soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	: <input checked="" type="checkbox"/> NovoRinse solution <input checked="" type="checkbox"/> NovoFlow sheath fluid	Not available. Not available.
Auto-ignition temperature	: <input checked="" type="checkbox"/> NovoRinse solution <input checked="" type="checkbox"/> NovoFlow sheath fluid	Not available. Not available.
Decomposition temperature	: <input checked="" type="checkbox"/> NovoRinse solution <input checked="" type="checkbox"/> NovoFlow sheath fluid	Not available. Not available.
Viscosity	: <input checked="" type="checkbox"/> NovoRinse solution <input checked="" type="checkbox"/> NovoFlow sheath fluid	Not available. Not available.

Section 10. Stability and reactivity

Reactivity	: <input checked="" type="checkbox"/> NovoRinse solution <input checked="" type="checkbox"/> NovoFlow sheath fluid	No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: <input checked="" type="checkbox"/> NovoRinse solution <input checked="" type="checkbox"/> NovoFlow sheath fluid	The product is stable. The product is stable.
Possibility of hazardous reactions	: <input checked="" type="checkbox"/> NovoRinse solution <input checked="" type="checkbox"/> NovoFlow sheath fluid	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: <input checked="" type="checkbox"/> NovoRinse solution <input checked="" type="checkbox"/> NovoFlow sheath fluid	No specific data. No specific data.
Incompatible materials	: <input checked="" type="checkbox"/> NovoRinse solution <input checked="" type="checkbox"/> NovoFlow sheath fluid	May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials.
Hazardous decomposition products	: <input checked="" type="checkbox"/> NovoRinse solution <input checked="" type="checkbox"/> NovoFlow sheath fluid	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Not available.

Irritation/Corrosion

Not available.

Sensitization

Section 11. Toxicological information

Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure : NovoRinse solution Not available.
 NovoFlow sheath fluid Not available.

Potential acute health effects

Eye contact	: <input checked="" type="checkbox"/> NovoRinse solution <input checked="" type="checkbox"/> NovoFlow sheath fluid	No known significant effects or critical hazards. No known significant effects or critical hazards.
Inhalation	: <input checked="" type="checkbox"/> NovoRinse solution <input checked="" type="checkbox"/> NovoFlow sheath fluid	No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	: <input checked="" type="checkbox"/> NovoRinse solution <input checked="" type="checkbox"/> NovoFlow sheath fluid	No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	: <input checked="" type="checkbox"/> NovoRinse solution <input checked="" type="checkbox"/> NovoFlow sheath fluid	No known significant effects or critical hazards. No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: <input checked="" type="checkbox"/> NovoRinse solution <input checked="" type="checkbox"/> NovoFlow sheath fluid	No specific data. No specific data.
Inhalation	: <input checked="" type="checkbox"/> NovoRinse solution <input checked="" type="checkbox"/> NovoFlow sheath fluid	No specific data. No specific data.
Skin contact	: <input checked="" type="checkbox"/> NovoRinse solution <input checked="" type="checkbox"/> NovoFlow sheath fluid	No specific data. No specific data.
Ingestion	: <input checked="" type="checkbox"/> NovoRinse solution <input checked="" type="checkbox"/> NovoFlow sheath fluid	No specific data. No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Section 11. Toxicological information

Potential delayed effects : Not available.

Potential chronic health effects

General	: <input checked="" type="checkbox"/> NovoRinse solution NovoFlow sheath fluid	No known significant effects or critical hazards. No known significant effects or critical hazards.
Carcinogenicity	: <input checked="" type="checkbox"/> NovoRinse solution NovoFlow sheath fluid	No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	: <input checked="" type="checkbox"/> NovoRinse solution NovoFlow sheath fluid	No known significant effects or critical hazards. No known significant effects or critical hazards.
Reproductive toxicity	: <input checked="" type="checkbox"/> NovoRinse solution NovoFlow sheath fluid	No known significant effects or critical hazards. No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

N/A

Other information : NovoRinse solution Not available.
NovoFlow sheath fluid Not available.

Section 12. Ecological information

Toxicity

Not available.

Persistence and degradability

Not available.

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

TDG / IMDG / IATA : Not regulated.

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to IMO instruments : Not available.

Section 15. Regulatory information

Canadian lists

Canadian NPRI : None of the components are listed.

CEPA Toxic substances : None of the components are listed.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : All components are listed or exempted.
Canada : All components are listed or exempted.
China : All components are listed or exempted.
Europe : All components are listed or exempted.
Japan : **Japan inventory (ENCS):** All components are listed or exempted.
Japan inventory (ISHL): All components are listed or exempted.
New Zealand : All components are listed or exempted.
Philippines : All components are listed or exempted.
Republic of Korea : All components are listed or exempted.
Taiwan : All components are listed or exempted.
Thailand : Not determined.
Turkey : Not determined.
United States : All components are active or exempted.
Viet Nam : All components are listed or exempted.

Section 16. Other information

History

Date of issue/Date of revision : 10/12/2020
Date of previous issue : 04/09/2020
Version : 2.1

Key to abbreviations

: ATE = Acute Toxicity Estimate
 BCF = Bioconcentration Factor
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 HPR = Hazardous Products Regulations
 IATA = International Air Transport Association
 IBC = Intermediate Bulk Container
 IMDG = International Maritime Dangerous Goods
 LogPow = logarithm of the octanol/water partition coefficient
 MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
 N/A = Not available
 UN = United Nations

Procedure used to derive the classification

Classification	Justification
Not classified.	

References : Not available.

Indicates information that has changed from previously issued version.

Notice to reader

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