

SAFETY DATA SHEET

Amplification Reagent

1. Product and company identification

Product name	: Amplification Reagent			
Used in	: APTIMA CT Assay 301088, APTIMA CT Assay TIGRIS 250-test kit 301199, APTIMA CT Assay TIGRIS 2x50-test kit 302224, APTIMA GC Assay 301091, APTIMA GC Assay TIGRIS 250-test kit 301196, APTIMA GC Assay TIGRIS 2x50-test kit 302225, APTIMA Combo 2 301032, APTIMA Combo 2 TIGRIS 250-test kit 301130, PROGENSA PCA3 Assay Kit CE 302355, PROGENSA PCA3 100-Reaction Kit 302354, PROGENSA PSA 100-Reaction Kit 302357, PCA3 ASR 302247, PSA ASR 302250, APTIMA HPV 100-test kit 302610, APTIMA HPV 250-test kit 302611.			
MSDS no.	: 0025			
Product type	: Solid.			
Supplier/Manufacturer	: Gen-Probe Incorporated 10210 Genetic Center Drive San Diego, CA 92121-4362			
Emergency telephone number (with hours of operation)	: CHEMTREC International: (703) 527-3887			
Recommended use of the chemical	In vitro diagnostic.			
Restrictions on use				
Uses	Industry category	Use category	Use sub-category	Function category
None identified.				

2. Hazards identification

Classification of the substance or mixture	: Not regulated.
GHS label elements	
Hazard statements	: No known significant effects or critical hazards.
Precautionary statements	
Prevention	: Not applicable.
Response	: Not applicable.
Storage	: Not applicable.
Disposal	: Not applicable.
Other hazards which do not result in classification	: Not available.
Country information	
Japan - Classification	: Not applicable.

3. Composition/information on ingredients

Substance/mixture	: Mixture
Chemical name	: Not applicable.
Other means of identification	: Not applicable.
CAS number/other identifiers	
CAS number	: Not applicable.
ENCS number	: Not applicable.

3. Composition/information on ingredients

ISHL number : Not applicable.

Ingredient name	%	CAS number	ENCS	ISHL
None.				

Due to differing non-hazardous components, the products listed in each part number in "Used In" section are not interchangeable. See package insert for product use.

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.

4. First aid measures

First aid measures

- Eye contact** : Check for and remove any contact lenses. In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if symptoms occur.
- Skin contact** : Wash with soap and water. Get medical attention if symptoms occur.
- Inhalation** : If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms appear.
- Ingestion** : Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.
- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

See section 11 for more detailed information on health effects and symptoms.

5. Fire-fighting measures

Extinguishing media

- Suitable** : Use an extinguishing agent suitable for the surrounding fire.
- Not suitable** : None known.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
sulfur oxides
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
- Remark** : Not available.

6. Accidental release measures

- Personal precautions, protective equipment and emergency procedures** : 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 (see section 8).
- Environmental precautions** : 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).

Methods and materials for containment and cleaning up

6. Accidental release measures

- Small spill** : Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

7. Handling and storage

- Precautions for safe handling** : Put on appropriate personal protective equipment (see section 8). 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.
- Conditions for safe storage** : 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.

8. Exposure controls/personal protection

Control parameters

Ingredient name	Exposure limits
None.	

- Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.
- Appropriate engineering controls** : No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.
- 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.
- 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.
- Respiratory protection** : Use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- 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.

8. Exposure controls/personal protection

- Eye 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.
- Skin 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.



9. Physical and chemical properties

Appearance

- Physical state** : Solid.
- Color** : White to off-white.
- pH** : 7.7
- Flammability (solid, gas)** : Non-flammable in the presence of the following materials or conditions: open flames, sparks and static discharge, heat, shocks and mechanical impacts, oxidizing materials, reducing materials, combustible materials, organic materials, metals, acids, alkalis and moisture.

10. Stability and reactivity

- Chemical stability** : The product is stable.
- Conditions to avoid** : No specific data.
- Incompatible materials** : No specific data.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

Most important health effects

Potential acute health effects

- Inhalation** : Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
- Ingestion** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Eye contact** : No known significant effects or critical hazards.

Potential chronic health effects

- General** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Eye contact** : No known significant effects or critical hazards.
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

11. Toxicological information

- Inhalation** : No specific data.
Ingestion : No specific data.
Skin : No specific data.
Eyes : No specific data.
Other information : Not available.

12. Ecological information

- Environmental effects** : No known significant effects or critical hazards.

Aquatic ecotoxicity

Product/ingredient name	Test	Species	Exposure	Result
Not available.				

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Not available.			

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Not available.			

- Mobility** : Not available.

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

13. Disposal considerations

- Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

14. Transport information

International transport regulations

- IMDG / IATA** : Not regulated by any transport mode.

15. Regulatory information

- Japan Control Law** : Not regulated.

Chemical Substances Control Law (CSCL)

Ingredient name	Classification
<p>Biodegradability : Not available. Concentration of chemicals accumulated in fish : Not available.</p>	

- Biodegradability** : Not available.

- Concentration of chemicals accumulated in fish** : Not available.

- Japan inventory (ENCS)** : See Section 3.

- Japan inventory (ISHL)** : See Section 3.

- Other regulations** : Not available.

16. Other information

History

Date of issue : 09/01/2008
Date of previous issue : 01/15/2008
Version : 2

References : JIS Z7250 (Japan)

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

SAFETY DATA SHEET

Amplification Reconstitution Solution

1. Product and company identification

Product name	: Amplification Reconstitution Solution			
Used in	: APTIMA CT Assay 301088, APTIMA CT Assay TIGRIS 250-test kit 301199, APTIMA CT Assay TIGRIS 2x50-test kit 302224, APTIMA GC Assay 301091, APTIMA GC Assay TIGRIS 250-test kit 301196, APTIMA GC Assay TIGRIS 2x50-test kit 302225, APTIMA Combo 2 301032, APTIMA Combo 2 TIGRIS 250-test kit 301130, PROGNSA PCA3 Assay Kit CE 302355, PROGNSA PCA3 100-Reaction Kit 302354, PROGNSA PSA 100-Reaction Kit 302357, PCA3 ASR 302500; PSA ASR 302501, APTIMA HPV 100-test kit 302610, APTIMA HPV 250-test kit 302611.			
MSDS no.	: 0026			
Product type	: Liquid.			
Supplier/Manufacturer	: Gen-Probe Incorporated 10210 Genetic Center Drive San Diego, CA 92121-4362			
Emergency telephone number (with hours of operation)	: CHEMTREC International: (703) 527-3887			
Recommended use of the chemical	In vitro diagnostic.			
Restrictions on use				
Uses	Industry category	Use category	Use sub-category	Function category
None identified.				

2. Hazards identification

Classification of the substance or mixture	: Not regulated.
GHS label elements	
Hazard statements	: No known significant effects or critical hazards.
Precautionary statements	
Prevention	: Not applicable.
Response	: Not applicable.
Storage	: Not applicable.
Disposal	: Not applicable.
Other hazards which do not result in classification	: Not available.
Country information	
Japan - Classification	: Not applicable.

3. Composition/information on ingredients

Substance/mixture	: Mixture
Chemical name	: Not applicable.
Other means of identification	: Not applicable.
CAS number/other identifiers	
CAS number	: Not applicable.
ENCS number	: Not applicable.

3. Composition/information on ingredients

ISHL number : Not applicable.

Ingredient name	%	CAS number	ENCS	ISHL
Magnesium chloride	1 - 5	7786-30-3	(1)-233	Not applicable.

Due to differing non-hazardous components, the products listed in each part number in "Used In" section are not interchangeable. See package insert for product use.

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.

4. First aid measures

First aid measures

- Eye contact** : Check for and remove any contact lenses. In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if symptoms occur.
- Skin contact** : Wash with soap and water. Get medical attention if symptoms occur.
- Inhalation** : If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms appear.
- Ingestion** : Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.
- Notes to physician** : No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

See section 11 for more detailed information on health effects and symptoms.

5. Fire-fighting measures

Extinguishing media

- Suitable** : Use an extinguishing agent suitable for the surrounding fire.
- Not suitable** : None known.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
halogenated compounds
metal oxide/oxides
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
- Remark** : Not available.

6. Accidental release measures

- Personal precautions, protective equipment and emergency procedures** : 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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).
- Environmental precautions** : 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).
- Methods and materials for containment and cleaning up**
- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

6. Accidental release measures

- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

7. Handling and storage

- Precautions for safe handling** : Put on appropriate personal protective equipment (see section 8). 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. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Conditions for safe storage** : 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.

8. Exposure controls/personal protection

Control parameters

Ingredient name	Exposure limits
None.	

- Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.
- Appropriate engineering controls** : No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.
- 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.
- 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.
- Respiratory protection** : Use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

8. Exposure controls/personal 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.
- Eye 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.
- Skin 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.



9. Physical and chemical properties

Appearance

- Physical state** : Liquid.
- Color** : Yellow.
- pH** : Not available.
- Flammability (solid, gas)** : Non-flammable in the presence of the following materials or conditions: open flames, sparks and static discharge, heat, shocks and mechanical impacts, oxidizing materials, reducing materials, combustible materials, organic materials, metals, acids, alkalis and moisture.

10. Stability and reactivity

- Chemical stability** : The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.
- Conditions to avoid** : No specific data.
- Incompatible materials** : No specific data.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

Most important health effects

Potential acute health effects

- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Eye contact** : No known significant effects or critical hazards.

Potential chronic health effects

- General** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Eye contact** : No known significant effects or critical hazards.
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.

11. Toxicological information

Fertility effects : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation : No specific data.

Ingestion : No specific data.

Skin : No specific data.

Eyes : No specific data.

Other information : Not available.

12. Ecological information

Environmental effects : No known significant effects or critical hazards.

Aquatic ecotoxicity

Product/ingredient name	Test	Species	Exposure	Result
magnesium chloride	-	Crustaceans	48 hours	Acute EC50 180000 to 342000 ug/L
	-	Fish	96 hours	Acute LC50 2120000 to 2740000 ug/L
	-	Daphnia	48 hours	Acute LC50 32000 to 37400 ug/L

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Not available.			

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Not available.			

Mobility : Not available.

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

13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

14. Transport information

International transport regulations

IMDG / IATA : Not regulated by any transport mode.

15. Regulatory information

Japan Control Law : Not regulated.

Chemical Substances Control Law (CSCL)

Ingredient name	Classification
Biodegradability	: Not available.
Concentration of chemicals accumulated in fish	: Not available.
Japan inventory (ENCS)	: See Section 3.

15. Regulatory information

Japan inventory (ISHL) : See Section 3.
Other regulations : Not available.

16. Other information

History

Date of issue : 09/01/2008
Date of previous issue : 01/15/2008
Version : 2

References : JIS Z7250 (Japan)

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

SAFETY DATA SHEET

Probe Reagent

1. Product and company identification

Product name	: Probe Reagent			
Used in	: APTIMA CT Assay 301088, APTIMA CT Assay TIGRIS 250-test kit 301199, APTIMA CT Assay TIGRIS 2x50-test kit 302224, APTIMA GC Assay 301091, APTIMA GC Assay TIGRIS 250-test kit 301196, APTIMA GC Assay TIGRIS 2x50-test kit 302225, APTIMA Combo 2 301032, APTIMA Combo 2 TIGRIS 250-test kit 301130, PROGNSA PCA3 Assay Kit CE 302355, PROGNSA PCA3 100-Reaction Kit 302354, PROGNSA PSA 100-Reaction Kit 302357, PCA3 ASR 302248, PSA ASR 302251, APTIMA HPV 100-test kit 302610, APTIMA HPV250-test kit 302611.			
MSDS no.	: 0027			
Product type	: Solid.			
Supplier/Manufacturer	: Gen-Probe Incorporated 10210 Genetic Center Drive San Diego, CA 92121-4362			
Emergency telephone number (with hours of operation)	: CHEMTREC International: (703) 527-3887			
Recommended use of the chemical	In vitro diagnostic.			
Restrictions on use				
Uses	Industry category	Use category	Use sub-category	Function category
None identified.				

2. Hazards identification

Classification of the substance or mixture	: Not regulated.
GHS label elements	
Hazard statements	: No known significant effects or critical hazards.
Precautionary statements	
Prevention	: Not applicable.
Response	: Not applicable.
Storage	: Not applicable.
Disposal	: Not applicable.
Other hazards which do not result in classification	: Not available.
Country information	
Japan - Classification	: Not applicable.

3. Composition/information on ingredients

Substance/mixture	: Mixture
Chemical name	: Not applicable.
Other means of identification	: Not applicable.
CAS number/other identifiers	
CAS number	: Not applicable.
ENCS number	: Not applicable.

3. Composition/information on ingredients

ISHL number : Not applicable.

Ingredient name	%	CAS number	ENCS	ISHL
Mercaptoethanesulfonic Acid, Sodium Salt	1 - 5	19767-45-4	2-(4)-808	Not applicable.

Due to differing non-hazardous components, the products listed in each part number in "Used In" section are not interchangeable. See package insert for product use.

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.

4. First aid measures

First aid measures

- Eye contact** : Check for and remove any contact lenses. In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if symptoms occur.
- Skin contact** : Wash with soap and water. Get medical attention if symptoms occur.
- Inhalation** : If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms appear.
- Ingestion** : Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.
- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

See section 11 for more detailed information on health effects and symptoms.

5. Fire-fighting measures

Extinguishing media

- Suitable** : Use an extinguishing agent suitable for the surrounding fire.
- Not suitable** : None known.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
sulfur oxides
metal oxide/oxides
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
- Remark** : Not available.

6. Accidental release measures

- Personal precautions, protective equipment and emergency procedures** : 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. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).
- Environmental precautions** : 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).

Methods and materials for containment and cleaning up

6. Accidental release measures

- Small spill** : Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

7. Handling and storage

- Precautions for safe handling** : Put on appropriate personal protective equipment (see section 8). 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. Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Conditions for safe storage** : 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.

8. Exposure controls/personal protection

Control parameters

Ingredient name	Exposure limits
None.	

- Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.
- Appropriate engineering controls** : No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.
- 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.

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.
- Respiratory protection** : Use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

8. Exposure controls/personal 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.
- Eye 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.
- Skin 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.



9. Physical and chemical properties

Appearance

- Physical state** : Solid. [Lyophilized.]
- Color** : White to off-white.
- pH** : 5
- Flammability (solid, gas)** : Not available.

10. Stability and reactivity

- Chemical stability** : The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.
- Conditions to avoid** : No specific data.
- Incompatible materials** : No specific data.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

Most important health effects

Potential acute health effects

- Inhalation** : Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
- Ingestion** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Eye contact** : No known significant effects or critical hazards.

Potential chronic health effects

- General** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Eye contact** : No known significant effects or critical hazards.
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

11. Toxicological information

- Inhalation** : No specific data.
Ingestion : No specific data.
Skin : No specific data.
Eyes : No specific data.
Other information : Not available.

12. Ecological information

Environmental effects : No known significant effects or critical hazards.

Aquatic ecotoxicity

Product/ingredient name	Test	Species	Exposure	Result
Not available.				

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Not available.			

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Not available.			

Mobility : Not available.

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

13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

14. Transport information

International transport regulations

IMDG / IATA : Not regulated by any transport mode.

15. Regulatory information

Japan Control Law : Not regulated.

Chemical Substances Control Law (CSCL)

Ingredient name	Classification
Biodegradability	: Not available.
Concentration of chemicals accumulated in fish	: Not available.
Japan inventory (ENCS)	: See Section 3.
Japan inventory (ISHL)	: See Section 3.
Other regulations	: Not available.

16. Other information

History

Date of issue : 09/01/2008
Date of previous issue : 01/15/2008
Version : 2

References : JIS Z7250 (Japan)

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.


SAFETY DATA SHEET

Probe Reconstitution Solution

1. Product and company identification

Product name	: Probe Reconstitution Solution			
Used in	: APTIMA CT Assay 301088, APTIMA CT Assay TIGRIS 250-test kit 301199, APTIMA CT Assay TIGRIS 2x50-test kit 302224, APTIMA GC Assay 301091, APTIMA GC Assay TIGRIS 250-test kit 301196, APTIMA GC Assay TIGRIS 2x50-test kit 302225, APTIMA Combo 2 301032, APTIMA Combo 2 TIGRIS 250-test kit 301130, PROGNSA PCA3 Assay Kit CE 302355, PROGNSA PCA3 100-Reaction Kit 302354, PROGNSA PSA 100-Reaction Kit 302357, PCA3/PSA Supplemental Fluids Kit 302030, APTIMA HPV 100-test kit 302610, APTIMA HPV 250-test kit 302611.			
MSDS no.	: 0028			
Product type	: Liquid.			
Supplier/Manufacturer	: Gen-Probe Incorporated 10210 Genetic Center Drive San Diego, CA 92121-4362			
Emergency telephone number (with hours of operation)	: CHEMTREC International: (703) 527-3887			
Recommended use of the chemical	In vitro diagnostic.			
Restrictions on use				
Uses	Industry category	Use category	Use sub-category	Function category
None identified.				

2. Hazards identification

Classification of the substance or mixture	: SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) blood system, central nervous system (CNS), liver and reproductive organs - Category 2 AQUATIC TOXICITY (ACUTE) - Category 3
GHS label elements	
Signal word	: Warning
Hazard statements	: May cause damage to organs through prolonged or repeated exposure if swallowed. (blood system, central nervous system (CNS), liver, reproductive organs) Harmful to aquatic life.
Precautionary statements	
Prevention	: Avoid release to the environment. Do not breathe vapor.
Response	: Get medical attention/advice if you feel unwell.
Storage	: Not applicable.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Symbol	: 
Other hazards which do not result in classification	: Not available.
Country information	
Japan - Classification	: Other hazardous substances.

3. Composition/information on ingredients

- Substance/mixture** : Mixture
Chemical name : Not applicable.
Other means of identification : Not applicable.
CAS number/other identifiers
CAS number : Not applicable.
ENCS number : Not applicable.
ISHL number : Not applicable.

Ingredient name	%	CAS number	ENCS	ISHL
Lithium chloride	1 - 5	7447-41-8	(1)-231	Not applicable.
Ethanol	1 - 5	64-17-5	(2)-202	Not applicable.
Succinic acid	1 - 5	110-15-6	(2)-846	Not applicable.

Hazardous materials listed are the same in each part number in " Used In " section, however due to differing non-hazardous components, the use of these products are not interchangeable. See package insert for product use.

There are no additional 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.

4. First aid measures

First aid measures

- Eye contact** : Check for and remove any contact lenses. In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if symptoms occur.
- Skin contact** : Wash with soap and water. Get medical attention if symptoms occur.
- Inhalation** : If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms appear.
- Ingestion** : Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
- Notes to physician** : No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

See section 11 for more detailed information on health effects and symptoms.

5. Fire-fighting measures

Extinguishing media

- Suitable** : Use an extinguishing agent suitable for the surrounding fire.
- Not suitable** : None known.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
sulfur oxides
halogenated compounds
metal oxide/oxides
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
- Remark** : Not available.

6. Accidental release measures

- Personal precautions, protective equipment and emergency procedures** : 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. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).
- Environmental precautions** : 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). Water polluting material. May be harmful to the environment if released in large quantities.
- Methods and materials for containment and cleaning up**
- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

7. Handling and storage

- Precautions for safe handling** : Put on appropriate personal protective equipment (see section 8). 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. Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Conditions for safe storage** : 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.

8. Exposure controls/personal protection

Control parameters

Ingredient name	Exposure limits
None.	

- Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.
- Appropriate engineering controls** : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
- 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.

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.
- Respiratory protection** : Use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- 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.
- Eye 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.
- Skin 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.



9. Physical and chemical properties

Appearance

- Physical state** : Liquid.
- Color** : Colorless to light yellow.
- pH** : 4.7
- Flammability (solid, gas)** : Not available.

10. Stability and reactivity

- Chemical stability** : The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.
- Conditions to avoid** : Avoid release to the environment.
- Incompatible materials** : No specific data.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

Most important health effects

Potential acute health effects

- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Eye contact** : No known significant effects or critical hazards.

Potential chronic health effects

- General** : May cause damage to organs through prolonged or repeated exposure.
- Inhalation** : No known significant effects or critical hazards.

11. Toxicological information

- Ingestion** : May cause damage to organs through prolonged or repeated exposure if swallowed.
- Skin contact** : No known significant effects or critical hazards.
- Eye contact** : No known significant effects or critical hazards.
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

- Inhalation** : No specific data.
- Ingestion** : No specific data.
- Skin** : No specific data.
- Eyes** : No specific data.

Other information : Not available.

12. Ecological information

Environmental effects : This material is harmful to aquatic life.

Aquatic ecotoxicity

Product/ingredient name	Test	Species	Exposure	Result
Ethanol	Intoxication	Daphnia	48 hours	Acute EC50 >100 mg/L
	Intoxication	Daphnia	48 hours	Acute EC50 9.3 mg/L
	Physiology	Daphnia	48 hours	Acute EC50 2 mg/L
	Mortality	Fish	96 hours	Acute LC50 13000 mg/L
	Mortality	Fish	96 hours	Acute LC50 >100 mg/L
	Mortality	Daphnia	96 hours	Acute LC50 >100 mg/L
Succinic acid	-	Daphnia	48 hours	Acute EC50 374.2 mg/L

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Not available.			

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Not available.			

Mobility : Not available.

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

13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

14. Transport information

International transport regulations

IMDG / IATA : Not regulated by any transport mode.

15. Regulatory information

Japan Control Law : Not regulated.

Chemical Substances Control Law (CSCL)

Ingredient name

EDTA Calibration Sample

Classification

Type II monitoring

Biodegradability : Not available.

Concentration of chemicals accumulated in fish : Not available.

Japan inventory (ENCS) : See Section 3.

Japan inventory (ISHL) : See Section 3.

Other regulations : Not available.

16. Other information

History

Date of issue : 09/01/2008

Date of previous issue : 01/15/2008

Version : 2

References : JIS Z7250 (Japan)

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.


SAFETY DATA SHEET

Target Capture Reagent

1. Product and company identification

Product name	: Target Capture Reagent			
Used in	: APTIMA CT Assay 301088, APTIMA CT Assay TIGRIS 250-test kit 301199, APTIMA CT Assay TIGRIS 2x50-test kit 302224, APTIMA GC Assay 301091, APTIMA GC Assay TIGRIS 250-test kit 301196, APTIMA GC Assay TIGRIS 2x50-test kit 302225, APTIMA Combo 2 301032, APTIMA Combo 2 TIGRIS 250-test kit 301130, PROGNSA PCA3 Assay Kit CE 302355, PROGNSA PCA3 100-Reaction Kit 302354, PROGNSA PSA 100-Reaction Kit 302357, PCA3 ASR 302249, PSA ASR 302252, APTIMA HPV 100-test kit 302610, APTIMA HPV 250-test kit 302611.			
MSDS no.	: 0029			
Product type	: Liquid.			
Supplier/Manufacturer	: Gen-Probe Incorporated 10210 Genetic Center Drive San Diego, CA 92121-4362			
Emergency telephone number (with hours of operation)	: CHEMTREC International: (703) 527-3887			
Recommended use of the chemical	In vitro diagnostic.			
Restrictions on use				
Uses	Industry category	Use category	Use sub-category	Function category
None identified.				

2. Hazards identification

Classification of the substance or mixture	: SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) central nervous system (CNS) - Category 2			
GHS label elements				
Signal word	: Warning			
Hazard statements	: May cause damage to organs through prolonged or repeated exposure if swallowed. (central nervous system (CNS))			
Precautionary statements				
Prevention	: Do not breathe vapor.			
Response	: Get medical attention/advice if you feel unwell.			
Storage	: Not applicable.			
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.			
Symbol	: 			
Other hazards which do not result in classification	: Not available.			
Country information				
Japan - Classification	: Other hazardous substances.			

3. Composition/information on ingredients

Substance/mixture	: Mixture
Chemical name	: Not applicable.
Other means of identification	: Not applicable.
CAS number/other identifiers	
CAS number	: Not applicable.
ENCS number	: Not applicable.
ISHL number	: Not applicable.

Ingredient name	%	CAS number	ENCS	ISHL
Lithium chloride	5 - 10	7447-41-8	(1)-231	Not applicable.

Hazardous materials listed are the same in each part number in " Used In " section, however due to differing non-hazardous components, the use of these products are not interchangeable. See package insert for product use.

There are no additional 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.

4. First aid measures

First aid measures

Eye contact	: Check for and remove any contact lenses. In case of contact with eyes, rinse immediately with plenty of water. Get medical attention.
Skin contact	: In case of contact, immediately flush skin with plenty of water for at least 20 minutes. Get medical attention.
Inhalation	: If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention.
Ingestion	: Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

See section 11 for more detailed information on health effects and symptoms.

5. Fire-fighting measures

Extinguishing media

Suitable	: Use an extinguishing agent suitable for the surrounding fire.
Not suitable	: None known.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides halogenated compounds metal oxide/oxides
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Remark	: Not available.

6. Accidental release measures

- Personal precautions, protective equipment and emergency procedures** : 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. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).
- Environmental precautions** : 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).
- Methods and materials for containment and cleaning up**
- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

7. Handling and storage

- Precautions for safe handling** : Put on appropriate personal protective equipment (see section 8). 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. Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Conditions for safe storage** : 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.

8. Exposure controls/personal protection

Control parameters

Ingredient name	Exposure limits
None.	

- Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.
- Appropriate engineering controls** : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
- 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.

Individual protection measures

8. Exposure controls/personal protection

- 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.
- Respiratory protection** : Use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- 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.
- Eye 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.
- Skin 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.



9. Physical and chemical properties

Appearance

- Physical state** : Liquid. [Suspension.]
- Color** : Brown.
- pH** : ~ 6.4.
- Flammability (solid, gas)** : Non-flammable in the presence of the following materials or conditions: open flames, sparks and static discharge, heat, shocks and mechanical impacts, oxidizing materials, reducing materials, combustible materials, organic materials, metals, acids, alkalis and moisture.

10. Stability and reactivity

- Chemical stability** : The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.
- Conditions to avoid** : No specific data.
- Incompatible materials** : No specific data.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

Most important health effects

Potential acute health effects

- Inhalation** : Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
- Ingestion** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Eye contact** : No known significant effects or critical hazards.

Potential chronic health effects

- General** : May cause damage to organs through prolonged or repeated exposure.

11. Toxicological information

- Inhalation** : No known significant effects or critical hazards.
Ingestion : May cause damage to organs through prolonged or repeated exposure if swallowed.
- Skin contact** : No known significant effects or critical hazards.
Eye contact : No known significant effects or critical hazards.
Carcinogenicity : No known significant effects or critical hazards.
Mutagenicity : No known significant effects or critical hazards.
Teratogenicity : No known significant effects or critical hazards.
Developmental effects : No known significant effects or critical hazards.
Fertility effects : No known significant effects or critical hazards.
- Symptoms related to the physical, chemical and toxicological characteristics**
- Inhalation** : No specific data.
Ingestion : No specific data.
Skin : No specific data.
Eyes : No specific data.
- Other information** : Not available.

12. Ecological information

Environmental effects : No known significant effects or critical hazards.

Aquatic ecotoxicity

Product/ingredient name	Test	Species	Exposure	Result
Not available.				

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Not available.			

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Not available.			

Mobility : Not available.

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

13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

14. Transport information

International transport regulations

IMDG / IATA : Not regulated by any transport mode.

15. Regulatory information

Japan Control Law : Not regulated.

Chemical Substances Control Law (CSCL)

Ingredient name

EDTA Calibration Sample

Classification

Type II monitoring

Biodegradability : Not available.

Concentration of chemicals accumulated in fish : Not available.

Japan inventory (ENCS) : See Section 3.

Japan inventory (ISHL) : See Section 3.

Other regulations : Not available.

16. Other information

History

Date of issue : 09/01/2008

Date of previous issue : 01/15/2008

Version : 2

References : JIS Z7250 (Japan)

Notice to reader

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SAFETY DATA SHEET

Controls

1. Product and company identification

Product name	: Controls			
Used in	: APTIMA CT Assay 301088, APTIMA CT Assay TIGRIS 250-test kit 301199, APTIMA CT Assay TIGRIS 2x50-test kit 302224, APTIMA GC Assay 301091, APTIMA GC Assay TIGRIS 250-test kit 301196, APTIMA GC Assay TIGRIS 2x50-test kit 302225, APTIMA Combo 2 301032, APTIMA Combo 2 TIGRIS 250-test kit 301130, PROGENSE PCA3 Assay Kit CE 302355, PROGENSE PCA3 Calibrators and Controls Kit 302353, PROGENSE PSA Calibrators and Controls Kit 302356, APTIMA HPV 100-test kit 302610, APTIMA HPV 250-test kit 302611, APTIMA HPV Controls 302556, APTIMA Trichomonas vaginalis Cals and Controls, ATV, 250 CE 302807, APTIMA Controls Kit 301110.			
MSDS no.	: 0035			
Product type	: Liquid.			
Supplier/Manufacturer	: Gen-Probe Incorporated 10210 Genetic Center Drive San Diego, CA 92121-4362			
Emergency telephone number (with hours of operation)	: CHEMTREC International: +1 (703) 527-3887			
Recommended use of the chemical	In vitro diagnostic.			
Restrictions on use				
Uses	Industry category	Use category	Use sub-category	Function category
None identified.				

2. Hazards identification

GHS Classification	: Not regulated.
GHS label elements	
Signal word	: No signal word.
Hazard statements	: No known significant effects or critical hazards.
Precautionary statements	
Prevention	: Not applicable.
Response	: Not applicable.
Storage	: Not applicable.
Disposal	: Not applicable.
Other hazards which do not result in classification	: Not available.
Country information	
Japan - Classification	: Not applicable.

3. Composition/information on ingredients

Substance/mixture	: Mixture
Chemical name	: Not available.
Other means of identification	: Not available.

Ingredient name	%	CAS number	ENCS	ISHL
None.				

Due to differing non-hazardous components, the products listed in each part number in "Used In" section are not interchangeable. See package insert for product use.

There are no additional 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.

3. Composition/information on ingredients

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

4. First aid measures

First aid measures

- Eye contact** : Check for and remove any contact lenses. In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if symptoms occur.
- Skin contact** : Wash with soap and water. Get medical attention if symptoms occur.
- Inhalation** : If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms appear.
- Ingestion** : Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.
- Notes to physician** : No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

See section 11 for more detailed information on health effects and symptoms.

5. Fire-fighting measures

Extinguishing media

- Suitable** : Use an extinguishing agent suitable for the surrounding fire.
- Not suitable** : None known.
- Hazardous decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
sulfur oxides
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

- Personal precautions, protective equipment and emergency procedures** : 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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).
- Environmental precautions** : 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).
- Methods and materials for containment and cleaning up**
- Spill** : Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

7. Handling and storage

- Precautions for safe handling** : Put on appropriate personal protective equipment (see section 8). 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. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

7. Handling and storage

Conditions for safe storage : 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.

8. Exposure controls/personal protection

Control parameters

Ingredient name	Exposure limits
None.	

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Appropriate engineering controls : No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

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.

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.

Respiratory protection : Use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

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.

Eye 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.

Skin 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.

9. Physical and chemical properties

Physical state : Liquid.

Color : Colorless.

Odor : Not available.

pH : ~ 6.7.

Flammability (solid, gas) : Non-flammable in the presence of the following materials or conditions: open flames, sparks and static discharge, heat, shocks and mechanical impacts, oxidizing materials, reducing materials, combustible materials, organic materials, metals, acids, alkalis and moisture.

Specific gravity : ~ 1.

10. Stability and reactivity

- Chemical stability** : The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- Conditions to avoid** : No specific data.
- Incompatible materials** : Reactive or incompatible with the following materials: oxidizing materials.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

Most important health effects

Potential acute health effects

- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Eye contact** : No known significant effects or critical hazards.

Potential chronic health effects

- General** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Eye contact** : No known significant effects or critical hazards.
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

- Inhalation** : No specific data.
- Ingestion** : No specific data.
- Skin contact** : No specific data.
- Eye contact** : No specific data.

- Other information** : Not available.

12. Ecological information

- Ecotoxicity** : No known significant effects or critical hazards.
- Mobility** : Not available.
- Other adverse effects** : No known significant effects or critical hazards.

13. Disposal considerations

- Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

14. Transport information

International transport regulations

IMDG / IATA : Not regulated by any transport mode.

15. Regulatory information

Japan Control Law : Not regulated.

Biodegradability : Not available.

Concentration of chemicals accumulated in fish : Not available.

Japan inventory (ENCS) : See Section 3.

Japan inventory (ISHL) : See Section 3.

Other regulations : Not available.

16. Other information

History

Date of issue : 01/11/2009

Date of previous issue : 11/15/2008

Version : 3

References : Standard : JIS Z7250 (Japan)

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.


SAFETY DATA SHEET

Selection Reagent

1. Product and company identification

Product name	: Selection Reagent			
Used in	: APTIMA CT Assay 301088, APTIMA CT Assay TIGRIS 250-test kit 301199, APTIMA CT Assay TIGRIS 2x50-test kit 302224, APTIMA GC Assay 301091, APTIMA GC Assay TIGRIS 250-test kit 301196, APTIMA GC Assay TIGRIS 2x50-test kit 302225, APTIMA Combo 2 301032, APTIMA Combo 2 TIGRIS 250-test kit 301130, PROGENSA PCA3 Assay Kit CE 302355, PROGENSA PCA3 100-Reaction Kit 302354, PROGENSA PSA 100-Reaction Kit 302357, PCA3/PSA Supplemental Fluids Kit 302030, APTIMA HPV 100-test kit 302610, APTIMA HPV 250-test kit 302611.			
MSDS no.	: 0038			
Product type	: Liquid.			
Supplier/Manufacturer	: Gen-Probe Incorporated 10210 Genetic Center Drive San Diego, CA 92121-4362			
Emergency telephone number (with hours of operation)	: CHEMTREC International: (703) 527-3887			
Recommended use of the chemical	In vitro diagnostic.			
Restrictions on use				
Uses	Industry category	Use category	Use sub-category	Function category
None identified.				

2. Hazards identification

Classification of the substance or mixture	: SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) central nervous system (CNS), kidneys and liver - Category 2			
GHS label elements				
Signal word	: Warning			
Hazard statements	: May cause damage to organs through prolonged or repeated exposure if swallowed. (central nervous system (CNS), kidneys, liver)			
Precautionary statements				
Prevention	: Do not breathe vapor.			
Response	: Get medical attention/advice if you feel unwell.			
Storage	: Not applicable.			
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.			
Symbol	: 			
Other hazards which do not result in classification	: Not available.			
Country information				
Japan - Classification	: Other hazardous substances.			

3. Composition/information on ingredients

- Substance/mixture** : Mixture
Chemical name : Not applicable.
Other means of identification : Not applicable.
CAS number/other identifiers
CAS number : Not applicable.
ENCs number : Not applicable.
ISHL number : Not applicable.

Ingredient name	%	CAS number	ENCs	ISHL
Boric Acid	1 - 5	10043-35-3	(1)-63	Not available.
Triton X-100	1 - 5	9002-93-1	Not available.	Not available.

Hazardous materials listed are the same in each part number in " Used In " section, however due to differing non-hazardous components, the use of these products are not interchangeable. See package insert for product use.

There are no additional 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.

4. First aid measures

First aid measures

- Eye contact** : Check for and remove any contact lenses. In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if symptoms occur.
- Skin contact** : Wash with soap and water. Get medical attention if symptoms occur.
- Inhalation** : If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms appear.
- Ingestion** : Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
- Notes to physician** : No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

See section 11 for more detailed information on health effects and symptoms.

5. Fire-fighting measures

Extinguishing media

- Suitable** : Use an extinguishing agent suitable for the surrounding fire.
- Not suitable** : None known.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
- Remark** : Not available.

6. Accidental release measures

- Personal precautions, protective equipment and emergency procedures** : 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. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).
- Environmental precautions** : 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).
- Methods and materials for containment and cleaning up**
- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

7. Handling and storage

- Precautions for safe handling** : Put on appropriate personal protective equipment (see section 8). 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. Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Conditions for safe storage** : 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.

8. Exposure controls/personal protection

Control parameters

Ingredient name	Exposure limits
None.	

- Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.
- Appropriate engineering controls** : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
- 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.

Individual protection measures

8. Exposure controls/personal protection

- 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.
- Respiratory protection** : Use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- 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.
- Eye 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.
- Skin 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.



9. Physical and chemical properties

Appearance

- Physical state** : Liquid. [Clear.]
- Color** : Colorless.
- pH** : 8.5
- Flammability (solid, gas)** : Non-flammable in the presence of the following materials or conditions: open flames, sparks and static discharge, heat, shocks and mechanical impacts, oxidizing materials, reducing materials, combustible materials, organic materials, metals, acids, alkalis and moisture.

10. Stability and reactivity

- Chemical stability** : The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.
- Conditions to avoid** : No specific data.
- Incompatible materials** : No specific data.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

Most important health effects

Potential acute health effects

- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Eye contact** : No known significant effects or critical hazards.

Potential chronic health effects

- General** : May cause damage to organs through prolonged or repeated exposure.
- Inhalation** : No known significant effects or critical hazards.

11. Toxicological information

- Ingestion** : May cause damage to organs through prolonged or repeated exposure if swallowed.
- Skin contact** : No known significant effects or critical hazards.
- Eye contact** : No known significant effects or critical hazards.
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

- Inhalation** : No specific data.
- Ingestion** : No specific data.
- Skin** : No specific data.
- Eyes** : No specific data.

Other information : Not available.

12. Ecological information

Environmental effects : No known significant effects or critical hazards.

Aquatic ecotoxicity

Product/ingredient name	Test	Species	Exposure	Result	
Boric Acid	Intoxication	Daphnia	48 hours	Acute EC50 777 mg/L	
	Intoxication	Daphnia	48 hours	Acute EC50 226 mg/L	
	Intoxication	Daphnia	48 hours	Acute EC50 133 mg/L	
	Mortality	Fish	96 hours	Acute LC50 >1100 mg/L	
	Mortality	Fish	96 hours	Acute LC50 >1021 mg/L	
	Mortality	Fish	96 hours	Acute LC50 >800 mg/L	
	Triton X-100	Mortality	Fish	96 hours	Acute LC50 531 mg/L
		Mortality	Fish	96 hours	Acute LC50 12 mg/L
		Mortality	Fish	96 hours	Acute LC50 >10 mg/L
Mortality		Fish	96 hours	Acute LC50 6 mg/L	
	Mortality	Fish	96 hours	Acute LC50 5.38 mg/L	
	Mortality	Fish	96 hours	Acute LC50 4.5 mg/L	

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Not available.			

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Not available.			

Mobility : Not available.

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

13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

14. Transport information

International transport regulations

IMDG / IATA : Not regulated by any transport mode.

15. Regulatory information

Japan Control Law : Not regulated.

Chemical Substances Control Law (CSCL)

Ingredient name

Triton X-100

Classification

Type III monitoring

Biodegradability : Not available.

Concentration of chemicals accumulated in fish : Not available.

Japan inventory (ENCS) : See Section 3.

Japan inventory (ISHL) : See Section 3.

Other regulations : Not available.

16. Other information

History

Date of issue : 11/15/2008

Date of previous issue : 01/15/2008

Version : 2

References : JIS Z7250 (Japan)

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

SAFETY DATA SHEET

Enzyme Reconstitution Solution

1. Product and company identification

Product name	: Enzyme Reconstitution Solution			
Used in	: APTIMA CT Assay 301088, APTIMA CT Assay TIGRIS 250-test kit 301199, APTIMA CT Assay TIGRIS 2x50-test kit 302224, APTIMA GC Assay 301091, APTIMA GC Assay TIGRIS 250-test kit 301196, APTIMA GC Assay TIGRIS 2x50-test kit 302225, APTIMA Combo 2 301032, APTIMA Combo 2 TIGRIS 250-test kit 301130, PROGNSA PCA3 Assay Kit CE 302355, PROGNSA PCA3 100-Reaction Kit 302354, PROGNSA PSA 100-Reaction Kit 302357, PCA3/PSA Supplemental Fluids Kit 302030, APTIMA HPV 100-test kit 302610, APTIMA HPV 250-test kit 302611.			
MSDS no.	: 0039			
Product type	: Liquid.			
Supplier/Manufacturer	: Gen-Probe Incorporated 10210 Genetic Center Drive San Diego, CA 92121-4362			
Emergency telephone number (with hours of operation)	: CHEMTREC International: (703) 527-3887			
Recommended use of the chemical	In vitro diagnostic.			
Restrictions on use				
Uses	Industry category	Use category	Use sub-category	Function category
None identified.				

2. Hazards identification

Classification of the substance or mixture	: AQUATIC TOXICITY (ACUTE) - Category 3
GHS label elements	
Hazard statements	: Harmful to aquatic life.
Precautionary statements	
Prevention	: Avoid release to the environment.
Response	: Not applicable.
Storage	: Not applicable.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hazards which do not result in classification	: Not available.
Country information	
Japan - Classification	: Other hazardous substances.

3. Composition/information on ingredients

Substance/mixture	: Mixture
Chemical name	: Not applicable.
Other means of identification	: Not applicable.
CAS number/other identifiers	
CAS number	: Not applicable.
ENCS number	: Not applicable.

3. Composition/information on ingredients

ISHL number : Not applicable.

Ingredient name	%	CAS number	ENCS	ISHL
Triton X-100	5 - 10	9002-93-1	Not available.	Not applicable.

Hazardous materials listed are the same in each part number in " Used In " section, however due to differing non-hazardous components, the use of these products are not interchangeable. See package insert for product use.

There are no additional 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.

4. First aid measures

First aid measures

- Eye contact** : Check for and remove any contact lenses. In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if symptoms occur.
- Skin contact** : Wash with soap and water. Get medical attention if symptoms occur.
- Inhalation** : If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms appear.
- Ingestion** : Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

See section 11 for more detailed information on health effects and symptoms.

5. Fire-fighting measures

Extinguishing media

- Suitable** : Use an extinguishing agent suitable for the surrounding fire.
- Not suitable** : None known.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
sulfur oxides
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
- Remark** : Not available.

6. Accidental release measures

- Personal precautions, protective equipment and emergency procedures** : 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. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).
- Environmental precautions** : 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). Water polluting material. May be harmful to the environment if released in large quantities.

6. Accidental release measures

Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

7. Handling and storage

- Precautions for safe handling** : Put on appropriate personal protective equipment (see section 8). 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. Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Conditions for safe storage** : 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.

8. Exposure controls/personal protection

Control parameters

Ingredient name	Exposure limits
None.	

- Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.
- Appropriate engineering controls** : No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.
- 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.

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.

8. Exposure controls/personal protection

- Respiratory protection** : Use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- 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.
- Eye 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.
- Skin 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.



9. Physical and chemical properties

- Appearance**
- Physical state** : Liquid. [Clear.]
- Color** : Colorless.
- pH** : 7.
- Flammability (solid, gas)** : Non-flammable in the presence of the following materials or conditions: open flames, sparks and static discharge, heat, shocks and mechanical impacts, oxidizing materials, reducing materials, combustible materials, organic materials, metals, acids, alkalis and moisture.

10. Stability and reactivity

- Chemical stability** : The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.
- Conditions to avoid** : Avoid release to the environment.
- Incompatible materials** : No specific data.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

Most important health effects

Potential acute health effects

- Inhalation** : Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
- Ingestion** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Eye contact** : No known significant effects or critical hazards.

Potential chronic health effects

- General** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Eye contact** : No known significant effects or critical hazards.
- Carcinogenicity** : No known significant effects or critical hazards.

11. Toxicological information

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation : No specific data.

Ingestion : No specific data.

Skin : No specific data.

Eyes : No specific data.

Other information : Not available.

12. Ecological information

Environmental effects : This material is harmful to aquatic life.

Aquatic ecotoxicity

Product/ingredient name	Test	Species	Exposure	Result
Triton X-100	Mortality	Fish	96 hours	Acute LC50 531 mg/L
	Mortality	Fish	96 hours	Acute LC50 12 mg/L
	Mortality	Fish	96 hours	Acute LC50 >10 mg/L
	Mortality	Fish	96 hours	Acute LC50 6 mg/L
	Mortality	Fish	96 hours	Acute LC50 5.38 mg/L
	Mortality	Fish	96 hours	Acute LC50 4.5 mg/L

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Not available.			

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Not available.			

Mobility : Not available.

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

13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

14. Transport information

International transport regulations

IMDG / IATA : Not regulated by any transport mode.

15. Regulatory information

Japan Control Law : Not regulated.

Chemical Substances Control Law (CSCL)

Ingredient name

Triton X-100

Ethylenediamine tetraacetic acid

Classification

Type III monitoring

Type II monitoring

Biodegradability : Not available.

Concentration of chemicals accumulated in fish : Not available.

Japan inventory (ENCS) : See Section 3.

Japan inventory (ISHL) : See Section 3.

Other regulations : Not available.

16. Other information

History

Date of issue : 11/15/2008

Date of previous issue : 01/15/2008

Version : 2

References : JIS Z7250 (Japan)

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

SAFETY DATA SHEET

Enzyme Reagent

1. Product and company identification

Product name	: Enzyme Reagent			
Used in	: APTIMA CT Assay 301088, APTIMA CT Assay TIGRIS 250-test kit 301199, APTIMA CT Assay TIGRIS 2x50-test kit 302224, APTIMA GC Assay 301091, APTIMA GC Assay TIGRIS 250-test kit 301196, APTIMA GC Assay TIGRIS 2x50-test kit 302225, APTIMA Combo 2 301032, APTIMA Combo 2 TIGRIS 250-test kit 301130, PROGNSA PCA3 Assay Kit CE 302355, PROGNSA PCA3 100-Reaction Kit 302354, PROGNSA PSA 100-Reaction Kit 302357, PCA3/PSA Supplemental Fluids Kit 302030, APTIMA HPV 100-test kit 302610, APTIMA HPV 250-test kit 302611, APTIMA Trichomonas vaginalis 302806.			
MSDS no.	: 0040			
Product type	: Solid.			
Supplier/Manufacturer	: Gen-Probe Incorporated 10210 Genetic Center Drive San Diego, CA 92121-4362			
Emergency telephone number (with hours of operation)	: CHEMTREC International: +1 (703) 527-3887			
Recommended use of the chemical	In vitro diagnostic.			
Restrictions on use				
Uses	Industry category	Use category	Use sub-category	Function category
None identified.				

2. Hazards identification

GHS Classification	: Not regulated.
GHS label elements	
Hazard statements	: No known significant effects or critical hazards.
Precautionary statements	
Prevention	: Not applicable.
Response	: Not applicable.
Storage	: Not applicable.
Disposal	: Not applicable.
Other hazards which do not result in classification	: Not available.
Country information	
Japan - Classification	: Other hazardous substances.

3. Composition/information on ingredients

Substance/mixture	: Mixture
Chemical name	: Not available.
Other means of identification	: Not available.

Ingredient name	%	CAS number	ENCS	ISHL
Poly(oxy-1,2-ethanediyl), .alpha.-[4-(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-	1 - 5	9002-93-1	Not available.	Not available.

There are no additional 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.

3. Composition/information on ingredients

Hazardous materials listed are the same in each part number in " Used In " section, however due to differing non-hazardous components, the use of these products are not interchangeable. See package insert for product use.

4. First-aid measures

First-aid measures

- Eye contact** : Check for and remove any contact lenses. In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if symptoms occur.
- Skin contact** : Wash with soap and water. Get medical attention if symptoms occur.
- Inhalation** : If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms appear.
- Ingestion** : Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.
- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

See section 11 for more detailed information on health effects and symptoms.

5. Fire-fighting measures

Extinguishing media

- Suitable** : Use an extinguishing agent suitable for the surrounding fire.
- Not suitable** : None known.

- Hazardous decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
sulfur oxides

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

6. Accidental release measures

- Personal precautions, protective equipment and emergency procedures** : 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 spilt material. Put on appropriate personal protective equipment (see section 8).
- Environmental precautions** : Avoid dispersal of spilt 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).
- Methods and materials for containment and cleaning up**
- Spill** : Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

7. Handling and storage

- Precautions for safe handling** : Put on appropriate personal protective equipment (see section 8). 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.
- Conditions for safe storage** : 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 unlabelled containers. Use appropriate containment to avoid environmental contamination.

8. Exposure controls/personal protection

Control parameters

Ingredient name	Exposure limits
None.	

- Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.
- Appropriate engineering controls** : No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.
- 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.
- 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.
- Respiratory protection** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- 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.
- Eye 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.
- Skin 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.

9. Physical and chemical properties

- Physical state** : Solid. [Lyophilized.]
- Colour** : White to off-white.
- Odour** : Odourless.
- pH** : The pH of the solution before lyophilization is 7.0.
- Flammability (solid, gas)** : Non-flammable in the presence of the following materials or conditions: open flames, sparks and static discharge, heat, shocks and mechanical impacts, oxidizing materials, reducing materials, combustible materials, organic materials, metals, acids, alkalis and moisture.
- VOC** : Not available.

10. Stability and reactivity

- Chemical stability** : The product is stable.
- Conditions to avoid** : No specific data.
- Incompatible materials** : Reactive or incompatible with the following materials: oxidizing materials and reducing materials.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

Most important health effects

Potential acute health effects

- Inhalation** : Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
- Ingestion** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Eye contact** : No known significant effects or critical hazards.

Potential chronic health effects

- General** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Eye contact** : No known significant effects or critical hazards.
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

- Inhalation** : No specific data.
- Ingestion** : No specific data.
- Skin contact** : No specific data.
- Eye contact** : No specific data.

Other information : Not available.

12. Ecological information

- Ecotoxicity** : No known significant effects or critical hazards.
- Mobility** : Not available.
- Other adverse effects** : No known significant effects or critical hazards.

13. Disposal considerations

- Disposal methods** : The generation of waste should be avoided or minimised wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

14. Transport information

International transport regulations

- IMDG / IATA** : Not regulated by any transport mode.

15. Regulatory information

Japan Control Law : Not regulated.

Chemical Substances Control Law (CSCL)

Ingredient name

Poly(oxy-1,2-ethanediyl), .alpha.-[4-(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-

Classification

Type III monitoring

Biodegradability : Not available.

Concentration of chemicals accumulated in fish : Not available.

Japan inventory (ENCS) : See Section 3.

15. Regulatory information

Japan inventory (ISHL) : See Section 3.
Other regulations : Not available.

16. Other information

History

Date of issue : 15/02/2010
Date of previous issue : 01/01/2009
Version : 3

References : Standard : JIS Z7250 (Japan)

Notice to reader

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