

Date Prepared: 11/10/2009

Reviewed On: 11/09/2009

1 Identification of substance:

- **Product name:** Sodium Borohydride Tablet
(GasPak Plus Bulk Kit)
- **Catalog number:** 271041
- **Manufacturer/Supplier:**
BD Diagnostic Systems
7 Loveton Circle
Sparks, MD 21152
Telephone: (410) 771 - 0100 or (800) 638 - 8663
- **Information department:** Technical Services
- **Emergency information:**
In case of a chemical emergency, spill, fire, exposure, or accident contact BD Diagnostic Systems (410) 771-0100 or (800)-638-8663, or ChemTrec at (800) 424-9300.

2 Composition/Data on components:

- **Chemical characterization**
- **Description:** Mixture consisting of the following components.

· **Dangerous components:**

16940-66-2	sodium borohydride	5.0%
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3 Hazards identification

· **Hazard description:**



Xn Harmful
F Highly flammable

· **Information pertaining to particular dangers for man and environment**

- R 15 Contact with water liberates extremely flammable gases.
- R 22 Harmful if swallowed.
- R 36/38 Irritating to eyes and skin.

· **Classification system**

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

· **NFPA ratings (scale 0-4)**



Health = 2
Fire = 0
Reactivity = 2

The substance demonstrates unusual reactivity with water.

· **HMIS ratings (scale 0-4)**



Health = 2
Fire = 0
Reactivity = 2

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(GasPak Plus Bulk Kit)

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4 First aid measures

- **General information** No special measures required.
- **After inhalation** Seek medical treatment in case of complaints.
- **After skin contact** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact** Rinse opened eye for 15 minutes under running water. Then consult a doctor.
- **After swallowing** Immediately call a doctor.

5 Fire fighting measures

- **Suitable extinguishing agents**
CO₂, ABC multipurpose dry chemical or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents** Water.
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:** Wipe up with damp sponge or mop.
- **Measures for cleaning/collecting:** Ensure adequate ventilation.

7 Handling and storage

- **Handling**
- **Information for safe handling:** Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:** Keep ignition sources away - Do not smoke.
- **Storage**
- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
- **Information about storage in one common storage facility:** Store away from oxidizing agents.
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed containers.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Personal Protective Equipment**
- **General protective and hygienic measures**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

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- **Breathing equipment:**
In case of brief exposure, use a chemical fume hood or a NIOSH/MSHA-approved respirator.
- **Protection of hands:**



Chemical resistant gloves (i.e. nitrile, or equivalent).

- **Eye protection:** Safety glasses
- **Body protection:** Protective work clothing (lab coat).

9 Physical and chemical properties:

· General Information

Form: Solid.
Color: Whitish
Odor: Characteristic

· Change in condition

Melting point/Melting range: Not determined
Boiling point/Boiling range: Not determined

· **Flash point:** Not applicable

· **Flammability (solid, gaseous)** Contact with water liberates extremely flammable gases.

· **Auto igniting:** Product is not self igniting.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· **Density:** Not determined

· Solubility in / Miscibility with

Water: Soluble

· **pH-value:** Alkaline

· **Solvent content:**

· **Solids content:** 100.0 %

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **Materials to be avoided:** Incompatible material: strong oxidizers.
- **Dangerous reactions** Contact with water releases flammable gases
- **Dangerous products of decomposition:** Poisonous gases/vapors

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acc. to ISO/DIS 11014

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11 Toxicological information

· **Acute toxicity:**

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

16940-66-2 sodium borohydride

Oral	LD50	160 mg/kg (rat)
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· **Primary irritant effect:**

· **on the skin:** Irritant to skin and mucous membranes.

· **on the eye:** Irritating effect.

· **Sensitization:** No sensitizing effects known.

· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

Irritant

12 Ecological information:

· **Ecotoxicological effects:**

· **Other information:**

The ecological effects have not been thoroughly investigated, but currently none have been identified.

· **General notes:** Water hazard class 2 (Self-assessment): hazardous for water.

13 Disposal considerations

· **Product:**

· **Recommendation**

Must not be disposed of with solid waste.

Must adhere to official regulations.

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to state and federal regulations.

14 Transport information

· **DOT regulations:**

· **Hazard class:** 4.3

· **Identification number:** UN2813

· **Packing group:** II

· **Proper shipping name:** WATER-REACTIVE SOLID, N.O.S. (SODIUM BOROHYDRIDE, MIXTURE)

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Product name: Sodium Borohydride Tablet
(GasPak Plus Bulk Kit)

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· **Remarks:** This product can be transported using the "small quantity" exception. This package conforms to 49 CFR 173.4. The Hazard Class, Identification number, and Packing group listed above is for informational purposes only.

· **TDG (Transport dangerous goods):**



· **TDG class:** 4.3 (W2) Substances which, in contact with water, emit flammable gases

· **Danger code (Kemler):** X423

· **UN-Number:** 2813

· **Packaging group:** II

· **Description of goods:** 2813 Water-reactive solid, n.o.s. (sodium borohydride)

· **Maritime transport IMDG:**

· **IMDG Class:** 4.3

· **UN Number:** 2813

· **Packaging group:** II

· **EMS Number:** F-G,S-N

· **Marine pollutant:** No

· **Proper shipping name:** WATER-REACTIVE SOLID, N.O.S. (SODIUM BOROHYDRIDE, MIXTURE)

· **Air transport ICAO-TI and IATA-DGR:**

· **ICAO/IATA Class:** 4.3

· **UN/ID Number:** 2813

· **Packaging group:** II

· **Proper shipping name:** WATER-REACTIVE SOLID, N.O.S. (SODIUM BOROHYDRIDE, MIXTURE)

15 Regulations

· **SARA Section 355 (extremely hazardous substances)**

None of the ingredients is listed.

· **SARA Section 313 (specific toxic chemical listings)**

None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act)**

16940-66-2 sodium borohydride

· **Carcinogenicity categories**

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

· **Canadian Substance Listing**

· **Canadian Domestic Substance List (DSL)**

16940-66-2 sodium borohydride

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· Canadian Ingredient Disclosure List (limit 0.1%)

None of the ingredients is listed.

· Canadian Ingredient Disclosure List (limit 1%)

None of the ingredients is listed.

· Product related hazard information:

This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR), and the MSDS contains all of the information required by the CPR.

· Hazard symbols:

Xn Harmful

F Highly flammable

· Hazard-determining components of labeling:

sodium borohydride

· Risk phrases:

15 Contact with water liberates extremely flammable gases.

22 Harmful if swallowed.

36/38 Irritating to eyes and skin.

· Safety phrases:

7/8 Keep container tightly closed and dry.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

36 Wear suitable protective clothing.

60 This material and its container must be disposed of as hazardous waste.

· National regulations

· Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.

16 Other information:

To the best of our knowledge, the information contained herein is accurate. However, neither Becton, Dickinson and Company or any of its subsidiaries assumes any liabilities 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 can not guarantee that these are the only hazards that exist.

· Department issuing MSDS:

Safety and Environment Department

MSDS created by Michael J. Spinazzola

· Contact: Technical Service Representative

CDN

Date Prepared: 11/10/2009

Reviewed On: 11/09/2009

1 Identification of substance:

- **Product name:** One Sodium Bicarbonate Plus Citric Acid Table
(GasPak Plus Bulk Kit)
- **Catalog number:** 271041
- **Manufacturer/Supplier:**
BD Diagnostic Systems
7 Loveton Circle
Sparks, MD 21152
Telephone: (410) 771 - 0100 or (800) 638 - 8663
- **Information department:** Technical Services
- **Emergency information:**
In case of a chemical emergency, spill, fire, exposure, or accident contact BD Diagnostic Systems (410) 771-0100 or (800)-638-8663, or ChemTrec at (800) 424-9300.

2 Composition/Data on components:

- **Chemical characterization:**
- **CAS No. Description:**
sodium bicarbonate/citric acid tablet

3 Hazards identification

- **Hazard description:**
This product contains no hazardous constituents, or the concentration of all chemical constituents are below the regulatory threshold limits described by Occupational Safety Health Administration Hazard Communication Standard 29 CFR 1910.1200, the Canada's Workplace Hazardous Materials Information System (WHMIS) and the European Directive 91/155/EEC, and 93/112/EC.
- **Classification system**
- **NFPA ratings (scale 0-4)**



- **HMIS ratings (scale 0-4)**
- | | | |
|------------|---|----------------|
| HEALTH | 0 | Health = 0 |
| FIRE | 0 | Fire = 0 |
| REACTIVITY | 0 | Reactivity = 0 |

4 First aid measures

- **General information** No special measures required.
- **After inhalation** Seek medical treatment in case of complaints.
- **After skin contact** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing** If symptoms persist consult doctor.

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Product name: One Sodium Bicarbonate Plus Citric Acid Table
(GasPak Plus Bulk Kit)

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5 Fire fighting measures

- **Suitable extinguishing agents**
CO₂, ABC multipurpose dry chemical or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:** Wipe up with damp sponge or mop.
- **Measures for cleaning/collecting:** No special measures required.
- **Additional information:** No dangerous substances are released.

7 Handling and storage

- **Handling**
 - **Information for safe handling:** No special measures required.
 - **Information about protection against explosions and fires:** No special measures required.
- **Storage**
 - **Requirements to be met by storerooms and receptacles:** No special requirements.
 - **Information about storage in one common storage facility:** Store away from oxidizing agents.
 - **Further information about storage conditions:** None.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Personal Protective Equipment**
 - **General protective and hygienic measures**
The usual precautionary measures for handling chemicals should be followed.
 - **Breathing equipment:**
In case of brief exposure, use a chemical fume hood or a NIOSH/MSHA-approved respirator.
 - **Protection of hands:**



Chemical resistant gloves (i.e. nitrile, or equivalent).

- **Eye protection:** Safety glasses
- **Body protection:** Protective work clothing (lab coat).

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Product name: One Sodium Bicarbonate Plus Citric Acid Table
(GasPak Plus Bulk Kit)

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9 Physical and chemical properties:**· General Information**

Form: Liquid
Color: According to product specification
Odor: Characteristic

· Change in condition

Melting point/Melting range: Not determined
Boiling point/Boiling range: Not determined

· Flash point: Not applicable

· Danger of explosion: Product does not present an explosion hazard.

· Density: Not determined

· Solubility in / Miscibility with

Water: Soluble

10 Stability and reactivity

- Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- Dangerous reactions** No dangerous reactions known
- Dangerous products of decomposition:** No dangerous decomposition products known.

11 Toxicological information

- Acute toxicity:**
- Primary irritant effect:**
 - on the skin:** No irritating effect.
 - on the eye:** No irritating effect.
- Sensitization:** No sensitizing effects known.
- Additional toxicological information:**

The product is not subject to OSHA classification according to internally approved calculation methods for preparations.

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

The substance is not subject to classification.

12 Ecological information:

- Ecotoxicological effects:**
- Other information:**

The ecological effects have not been thoroughly investigated, but currently none have been identified.
- General notes:** Generally not hazardous for water.

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Product name: One Sodium Bicarbonate Plus Citric Acid Table
(GasPak Plus Bulk Kit)

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13 Disposal considerations

- **Product:**
- **Recommendation**
Smaller quantities can be disposed of with solid waste.
Must adhere to official regulations.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to state and federal regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

- **DOT regulations:**
- **Hazard class:** -
- **TDG (Transport dangerous goods):**
- **TDG class:** -
- **Maritime transport IMDG:**
- **IMDG Class:** -
- **Marine pollutant:** No
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -

- **Transport/Additional information:**
If a dashed line appears in the Hazard Class section for the type of transportation, this indicates the product is not regulated for transportation.

15 Regulations

- **SARA Section 355 (extremely hazardous substances)**

Substance is not listed.

- **SARA Section 313 (specific toxic chemical listings)**

Substance is not listed.

- **TSCA (Toxic Substances Control Act)**

Substance is not listed.

- **Carcinogenicity categories**

- **NTP (National Toxicology Program)**

Substance is not listed.

- **TLV (Threshold Limit Value established by ACGIH)**

Substance is not listed.

- **Canadian Substance Listing**

- **Canadian Domestic Substance List (DSL)**

Substance is not listed.

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Product name: One Sodium Bicarbonate Plus Citric Acid Table
(GasPak Plus Bulk Kit)

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· **Canadian Ingredient Disclosure List (limit 0.1%)**

Substance is not listed.

· **Canadian Ingredient Disclosure List (limit 1%)**

Substance is not listed.

· **Product related hazard information:**

Observe the general safety regulations when handling chemicals

The substance is not subject to classification according to the sources of literature known to us.

The product is not subject to identification regulations pertaining to regulations on hazardous materials.

This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR), and the MSDS contains all of the information required by the CPR.

16 Other information:

To the best of our knowledge, the information contained herein is accurate. However, neither Becton, Dickinson and Company or any of its subsidiaries assumes any liabilities 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 can not guarantee that these are the only hazards that exist.

· **Department issuing MSDS:**

Safety and Environment Department

MSDS created by Michael J. Spinazzola

· **Contact:** Technical Service Representative

CDN

Date Prepared: 11/10/2009

Reviewed On: 11/09/2009

1 Identification of substance:

- **Product name:** Palladium Catalyst Sachet
(GasPak Plus Bulk Kit)
- **Catalog number:** 271041
- **Manufacturer/Supplier:**
BD Diagnostic Systems
7 Loveton Circle
Sparks, MD 21152
Telephone: (410) 771 - 0100 or (800) 638 - 8663
- **Information department:** Technical Services
- **Emergency information:**
In case of a chemical emergency, spill, fire, exposure, or accident contact BD Diagnostic Systems (410) 771-0100 or (800)-638-8663, or ChemTrec at (800) 424-9300.

2 Composition/Data on components:

- **Chemical characterization**
- **Description:** Mixture consisting of the following components.

· **Dangerous components:**

7646-79-9	cobalt dichloride	7.5%
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3 Hazards identification

· **Hazard description:**



T Toxic

· **Information pertaining to particular dangers for man and environment**

- R 49 May cause cancer by inhalation.
- R 42/43 May cause sensitization by inhalation and skin contact.

· **Classification system**

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

· **NFPA ratings (scale 0-4)**



Health = 2
Fire = 0
Reactivity = 0

· **HMIS ratings (scale 0-4)**



HEALTH 2 Health = 2
FIRE 0 Fire = 0
REACTIVITY 0 Reactivity = 0

4 First aid measures

- **General information** In case of irregular breathing or respiratory arrest provide artificial respiration.
- **After inhalation** Seek medical treatment in case of complaints.
- **After skin contact** Immediately wash with water and soap and rinse thoroughly.

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Reviewed On: 11/09/2009

Product name: Palladium Catalyst Sachet
(GasPak Plus Bulk Kit)

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- **After eye contact** Rinse opened eye for 15 minutes under running water. Then consult a doctor.
- **After swallowing** Immediately call a doctor.

5 Fire fighting measures

- **Suitable extinguishing agents**
CO2, ABC multipurpose dry chemical or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:** Wipe up with damp sponge or mop.
- **Measures for cleaning/collecting:** No special measures required.
- **Additional information:**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Handling**
- **Information for safe handling:** Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:** Keep respiratory protective device available.
- **Storage**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Store away from oxidizing agents.
- **Further information about storage conditions:** None.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Personal Protective Equipment**
- **General protective and hygienic measures**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
- **Breathing equipment:**
In case of brief exposure, use a chemical fume hood or a NIOSH/MSHA-approved respirator.

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Product name: Palladium Catalyst Sachet
(GasPak Plus Bulk Kit)

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· **Protection of hands:**



Chemical resistant gloves (i.e. nitrile, or equivalent).

· **Eye protection:** Safety glasses

· **Body protection:** Protective work clothing (lab coat).

9 Physical and chemical properties:

· **General Information**

Form: Solid.
Color: According to product specification
Odor: Characteristic

· **Change in condition**

Melting point/Melting range: Not determined

Boiling point/Boiling range: Not determined

· **Flash point:** Not applicable

· **Auto igniting:** Product is not self igniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Density:** Not determined

· **Solubility in / Miscibility with**

Water: Soluble

· **Solvent content:**

· **Solids content:** 100.0 %

10 Stability and reactivity

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

· **Materials to be avoided:** Incompatible material: strong oxidizers.

· **Dangerous products of decomposition:** Hydrogen chloride (HCl)

11 Toxicological information

· **Acute toxicity:**

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

7646-79-9 cobalt dichloride

Oral	LD50	80 mg/kg (rat)
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· **Primary irritant effect:**

· **on the skin:** No irritating effect.

· **on the eye:** No irritating effect.

· **Sensitization:** No sensitizing effects known.

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Product name: Palladium Catalyst Sachet
(GasPak Plus Bulk Kit)

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- **Other information (about experimental toxicology):**
This product has a calculated LD50 of 1066.67 mg/Kg (oral-rat) based on cobalt dichloride content.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Harmful
Irritant
Carcinogenic if inhaled.

12 Ecological information:

- **Ecotoxicical effects:**
- **Other information:**
The ecological effects have not been thoroughly investigated, but currently none have been identified.
- **General notes:** Water hazard class 2 (Self-assessment): hazardous for water.

13 Disposal considerations

- **Product:**
- **Recommendation**
Must not be disposed of with solid waste.
Must adhere to official regulations.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to state and federal regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

- **DOT regulations:**
- **Hazard class:** -
- **TDG (Transport dangerous goods):**
- **TDG class:** -
- **Maritime transport IMDG:**
- **IMDG Class:** -
- **Marine pollutant:** No
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -

- **Transport/Additional information:**
If a dashed line appears in the Hazard Class section for the type of transportation, this indicates the product is not regulated for transportation.

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Material Safety Data Sheet

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Product name: Palladium Catalyst Sachet
(GasPak Plus Bulk Kit)

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15 Regulations

· **SARA Section 355 (extremely hazardous substances)**

None of the ingredients is listed.

· **SARA Section 313 (specific toxic chemical listings)**

None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act)**

7646-79-9 cobalt dichloride

· **Carcinogenicity categories**

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

· **Canadian Substance Listing**

· **Canadian Domestic Substance List (DSL)**

7646-79-9 cobalt dichloride

· **Canadian Ingredient Disclosure List (limit 0.1%)**

7646-79-9 cobalt dichloride

· **Canadian Ingredient Disclosure List (limit 1%)**

None of the ingredients is listed.

· **Product related hazard information:**

This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR), and the MSDS contains all of the information required by the CPR.

· **Hazard symbols:**

T Toxic

· **Hazard-determining components of labeling:**

cobalt dichloride

· **Risk phrases:**

49 May cause cancer by inhalation.

42/43 May cause sensitization by inhalation and skin contact.

· **Safety phrases:**

53 Avoid exposure - obtain special instructions before use.

22 Do not breathe dust.

24 Avoid contact with skin.

37 Wear suitable gloves.

20 When using do not eat or drink.

45 In case of accident or if you feel unwell, seek medical advice immediately.

60 This material and its container must be disposed of as hazardous waste.

· **National regulations**

· **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

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Product name: Palladium Catalyst Sachet
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16 Other information:

To the best of our knowledge, the information contained herein is accurate. However, neither Becton, Dickinson and Company or any of its subsidiaries assumes any liabilities 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 can not guarantee that these are the only hazards that exist.

- **Department issuing MSDS:**
Safety and Environment Department
MSDS created by Michael J. Spinazzola
- **Contact:** Technical Service Representative

CDN