

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
Tel: (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 at (410)771-0100 or (800)638-8663, or ChemTrec at (800)424-9300.

2 Composition/Data on components:

- **Chemical characterization**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

| | | |
|------------|--------------------|------|
| 16940-66-2 | sodium borohydride | 5.0% |
|------------|--------------------|------|

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 = 4
Fire = 0
Reactivity = 2

The substance demonstrates unusual reactivity with water.

4 First aid measures

- **General information** No special measures required.
- **After inhalation** Seek medical treatment in case of complaints.

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

(Contd. of page 1)

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

(Contd. on page 3)

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

(Contd. of page 2)

· **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

Borane/Borane oxides

Sodium oxide (NaOx)

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

(Contd. of page 3)

11 Toxicological information

· **Acute toxicity:**

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

16940-66-2 sodium borohydride

| | | |
|------|------|-----------------|
| Oral | LD50 | 160 mg/kg (rat) |
|------|------|-----------------|

· **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:**

Harmful

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

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

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.

Dispose of material in accordance with federal (40 CFR 261.3), state and local requirements.

RCRA hazardous waste - RCRA # D001, D003 (ignitable, reactive).

· **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

(Contd. on page 5)

USA

Material Safety Data Sheet
acc. to ISO/DIS 11014

Printing date 01/11/2006

Reviewed on 12/18/2003

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

(Contd. of page 4)

· **Proper shipping name:** WATER-REACTIVE SOLID, N.O.S. (SODIUM BOROHYDRIDE, MIXTURE)
 · **Remarks:** An approval has been granted by the United States Department of Transportation, Approval # CA-9904015. This package conforms to the conditions and limitations specified in the 49 CFR 173.4. The Hazard class, Identification Number, and Packing group listed above is for informational purposes only.
 This approval is for shipments within the United States, and from the United States to one destination within North America. The exception is not approved for secondary shipments that originate outside the United States.

· **Land transport ADR/RID (cross-border)**



· **ADR/RID 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, MIXTURE)

· **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)
 · **Remarks:** Limited quantity

· **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)
 · **Remarks:** This product can be transported using the exception: Dangerous Goods in Excepted Quantities. The Hazard class, Identification number, and Packing group listed above is for informational purposes only.

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

(Contd. on page 6)

**Material Safety Data Sheet**
acc. to ISO/DIS 11014

Printing date 01/11/2006

Reviewed on 12/18/2003

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

(Contd. of page 5)

· California Proposition 65 - Chemicals known to cause cancer

None of the ingredients is listed.

· California Proposition 65 - Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· California Proposition 65 - Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· California Proposition 65 - Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenicity categories**· IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· Product related hazard information:

The product has been classified and marked in accordance with regulations on hazardous materials.

· 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 cannot guarantee that these are the only hazards that exist.

(Contd. on page 7)

USA



Material Safety Data Sheet
acc. to ISO/DIS 11014

Printing date 01/11/2006

Reviewed on 12/18/2003

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

(Contd. of page 6)

- **Department issuing MSDS:** Safety and Environment Department
- **Contact:** Technical Service Representative

USA

1 Identification of substance:

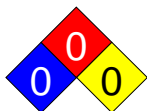
- **Product name:** One Sodium Bicarbonate Plus Citric Acid Table
(GasPak Plus Bulk Kit)
- **Catalog number:** 271041
- **Manufacturer/Supplier:**
BD Diagnostic Systems
7 Loveton Circle
Sparks, MD 21152
Tel: (410) 771-0100 or (800) 638-8663
- **Information department:** Technical Services
- **Emergency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

2 Composition/Data on components:

- **Chemical characterization:**
- **CAS No. Description:**
Not applicable

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 and the European Directive 91/155/EEC, and 93/112/EC.
- **NFPA ratings (scale 0-4)**



Health = 0
Fire = 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.

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.

(Contd. on page 2)

USA

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

(Contd. of page 1)

· **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).

9 Physical and chemical properties:

· General Information

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

(Contd. on page 3)

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

(Contd. of page 2)

- | | |
|--|---|
| · Change in condition | Undetermined |
| · 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:**
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.

13 Disposal considerations

- **Product:**
- **Recommendation**
Smaller quantities can be disposed of with solid waste.
This product is not considered a RCRA hazardous waste.
Dispose of material in accordance with federal (40 CFR 261.3), state and local requirements.

(Contd. on page 4)



Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 01/11/2006

Reviewed on 11/21/2003

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

(Contd. of page 3)

- **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:** -
- **Land transport ADR/RID (cross-border)**
- **ADR/RID 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. However, if a Hazard Class Number is listed the product is regulated.

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.
- **California Proposition 65 - Chemicals known to cause cancer**
Substance is not listed.
- **California Proposition 65 - Chemicals known to cause reproductive toxicity for females:**
Substance is not listed.
- **California Proposition 65 - Chemicals known to cause reproductive toxicity for males:**
Substance is not listed.
- **California Proposition 65 - Chemicals known to cause developmental toxicity:**
Substance is not listed.
- **Carcinogenicity categories**
- **IARC (International Agency for Research on Cancer)**
Substance is not listed.

(Contd. on page 5)



Material Safety Data Sheet
acc. to ISO/DIS 11014

Printing date 01/11/2006

Reviewed on 11/21/2003

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

(Contd. of page 4)

· **NTP (National Toxicology Program)**

Substance is not listed.

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

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.

· **National regulations**

· **Water hazard class:** *Generally not 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 cannot guarantee that these are the only hazards that exist.

· **Department issuing MSDS:** *Safety and Environment Department*

· **Contact:** *Technical Service Representative*

USA

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
Tel: (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 at (410)771-0100 or (800)638-8663, or ChemTrec at (800)424-9300.

2 Composition/Data on components:

- **Chemical characterization**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

| | | |
|-----------|-------------------|------|
| 7646-79-9 | cobalt dichloride | 7.5% |
|-----------|-------------------|------|

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

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

(Contd. on page 2)

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

(Contd. of page 1)

· **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:**

7646-79-9 cobalt dichloride

| | |
|-----|--|
| PEL | 0.1* mg/m ³ *For metal dust & fume, as Co |
| REL | 0.05* mg/m ³ *For metal dust & fume, as Co |
| TLV | 0.02,A3 mg/m ³ as Co |

- **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.

(Contd. on page 3)

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

(Contd. of page 2)

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.

· 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: | <i>Solid.</i> |
| Color: | <i>According to product specification</i> |
| Odor: | <i>Characteristic</i> |

· 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)*

USA

(Contd. on page 4)

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

(Contd. of page 3)

11 Toxicological information

· **Acute toxicity:**

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

7646-79-9 cobalt dichloride

| | | |
|------|------|----------------|
| Oral | LD50 | 80 mg/kg (rat) |
|------|------|----------------|

· **Primary irritant effect:**

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

· **on the eye:** Irritating effect.

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

· **Other information (about experimental toxicology):**

This product has a calculated LD50 of 1066.67 mg/Kg (oral-rat) based on cobalt dichloride content.

· **Subacute to chronic toxicity:** Target organs: respiratory tract, eyes, kidneys, and skin.

· **Additional toxicological information:**

Toxic

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

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.

Dispose of material in accordance with federal (40 CFR 261.3), state and local requirements.

This product is not considered a RCRA hazardous waste.

· **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:** -

· **Land transport ADR/RID (cross-border)**

· **ADR/RID class:** -

· **Maritime transport IMDG:**

· **IMDG Class:** -

· **Marine pollutant:** No

(Contd. on page 5)

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

(Contd. of page 4)

- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -

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

- **California Proposition 65 - Chemicals known to cause cancer**

None of the ingredients is listed.

- **California Proposition 65 - Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

- **California Proposition 65 - Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

- **California Proposition 65 - Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

- **Carcinogenicity categories**

- **IARC (International Agency for Research on Cancer)**

7646-79-9 cobalt dichloride

2B

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

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

None of the ingredients is listed.

- **Product related hazard information:**

The product has been classified and marked in accordance with regulations on hazardous materials.

- **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.

(Contd. on page 6)



Material Safety Data Sheet
acc. to ISO/DIS 11014

Printing date 01/11/2006

Reviewed on 11/21/2003

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

(Contd. of page 5)

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.

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 cannot guarantee that these are the only hazards that exist.

- **Department issuing MSDS:** Safety and Environment Department
- **Contact:** Technical Service Representative

USA