

06/27/2003

## Kit components

Product code	Description
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<b>271040</b>	<b>GasPak Plus Bulk Kit</b>
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Components:

271040a	Sodium Borohydride Tablet
271040b	Sodium Bicarbonate Plus Citric Acid Table
271040c	Palladium Catalyst Sachet

### 1 Identification of substance:

- **Product details:**
- **Product name:** Sodium Borohydride Tablet  
(GasPak Plus Bulk Kit)
- **Catalog number:** 271040
- **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
- **Identification number(s):**
- **EINECS Number:** 2410044
- **Chemical characterization**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

· **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.

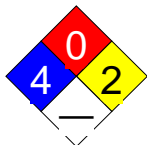
R 22 Harmful if swallowed.

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 = 4  
Fire = 0  
Reactivity = 2



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

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*The substance demonstrates unusual reactivity with water.*

#### **4 First aid measures**

· **General information**

*Symptoms of poisoning may even occur after several hours; therefore provide medical observation for at least 48 hours after the accident.*

· **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** *Immediately call a doctor.*

· **Information for doctor** *Show this label.*

· **Danger**

*Danger of gastric perforation.*

*Danger of impaired breathing.*

#### **5 Fire fighting measures**

· **Suitable extinguishing agents** *CO<sub>2</sub>, sand, extinguishing powder. Do not use water.*

· **For safety reasons unsuitable extinguishing agents** *Water.*

· **Special hazards caused by the material, its products of combustion or resulting gases:**

*During heating or in case of fire poisonous gases may be produced.*

· **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.*

· **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 ignition sources away - Do not smoke.*

· **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.*

*Store away from water.*

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

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· **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.
- **Protection of hands:**



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

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

### 9 Physical and chemical properties:

· **General Information**

<b>Form:</b>	Solid.
<b>Color:</b>	Whitish
<b>Odor:</b>	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.

· **Vapor pressure:** Not applicable

· **Density:** Not determined

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

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- |  |          |
|--|----------|
| · <b>Solubility in / Miscibility with Water:</b> | Soluble  |
| · <b>pH-value:</b>                               | Alkaline |

### 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **Dangerous reactions** Contact with water releases flammable gases
- **Dangerous products of decomposition:**  
Flammable gases/vapors  
Borane/Borane oxides  
sodium oxide

### 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:**  
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.  
Must adhere to state and federal regulations.  
Disposal must be made according to the regulations found in 40 CFR 261.

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

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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:** I
- **Hazardous substance:** 1 lbs, 0.454 kg
- **Proper shipping name (technical name):** WATER-REACTIVE SOLID, N.O.S. (SODIUM BOROHYDRIDE)
- **Label:** 4.3
- **Remarks:**

*This package conforms to the conditions and limitations specified in the 49 CFR 173.4.*

*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:** I
- **Description of goods:** 2813 WATER-REACTIVE SOLID, N.O.S. (SODIUM BOROHYDRIDE)

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

(Contd. of page 5)

**· Maritime transport IMDG:**



· <b>IMDG Class:</b>	4.3
· <b>UN Number:</b>	2813
· <b>Label</b>	4.3
· <b>Packaging group:</b>	I
· <b>EMS Number:</b>	F-G,S-N
· <b>Marine pollutant:</b>	No
· <b>Proper shipping name:</b>	WATER-REACTIVE SOLID, N.O.S. (SODIUM BOROHYDRIDE)

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



· <b>ICAO/IATA Class:</b>	4.3
· <b>UN/ID Number:</b>	2813
· <b>Label</b>	4.3
· <b>Packaging group:</b>	I
· <b>Proper shipping name:</b>	WATER-REACTIVE SOLID, N.O.S. (SODIUM BOROHYDRIDE)

**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

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

None of the ingredients is listed.

**· California Proposition 65 - Chemicals known to cause reproductive 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.

**· MAK (German Maximum Workplace Concentration)**

None of the ingredients is listed.



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

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· **Product related hazard informations:**

*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 labelling:**

*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 BD 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*

### 1 Identification of substance:

- **Product details:**
- **Product name:** Sodium Bicarbonate Plus Citric Acid Table  
(GasPak Plus Bulk Kit)
- **Catalog number:** 271040
- **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.
- **Information for doctor** Show this label.

### 5 Fire fighting measures

- **Suitable extinguishing agents**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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

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· **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. latex, nitrile, or equivalent).

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

### 9 Physical and chemical properties:

· **General Information**

<b>Form:</b>	Solid.
<b>Color:</b>	According to product specification
<b>Odor:</b>	Characteristic

· **Change in condition**                      Undetermined

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

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- |  |  |
|--|--|
| · <b>Melting point/Melting range:</b>            | <i>Not determined</i>                                |
| · <b>Boiling point/Boiling range:</b>            | <i>Not determined</i>                                |
| · <b>Flash point:</b>                            | <i>Not applicable</i>                                |
| · <b>Danger of explosion:</b>                    | <i>Product does not present an explosion hazard.</i> |
| · <b>Density:</b>                                | <i>Not determined</i>                                |
| · <b>Solubility in / Miscibility with Water:</b> | <i>Soluble</i>                                       |
| · <b>pH-value:</b>                               | <i>Not applicable</i>                                |

### 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**  
*Must adhere to state and federal regulations.*  
*Smaller quantities can be disposed of with solid waste.*  
*Disposal must be made according to the regulations found in 40 CFR 261.*  
*This product is not considered a RCRA hazardous waste.*

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

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- **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:**  
\*\*\* Note the dashed line in the Hazard Class for each mode of transport indicates the product is non-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.
- **California Proposition 65 - Chemicals known to cause cancer**  
Substance is not listed.
- **California Proposition 65 - Chemicals known to cause reproductive toxicity**  
Substance is not listed.
- **Carcinogenicity categories**
- **IARC (International Agency for Research on Cancer)**  
Substance is not listed.
- **NTP (National Toxicology Program)**  
Substance is not listed.
- **TLV (Threshold Limit Value established by ACGIH)**  
Substance is not listed.
- **MAK (German Maximum Workplace Concentration)**  
Substance is not listed.

- **Product related hazard informations:**  
The substance is not subject to classification according to the sources of literature known to us.

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

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

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*Observe the general safety regulations when handling chemicals*  
*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 BD 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 details:**

· **Product name:** Palladium Catalyst Sachet

(GasPak Plus Bulk Kit)

· **Catalog number:** 271040

· **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 chloride	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 = 0

Fire = 0

Reactivity = 0

### 4 First aid measures

· **General information** No special measures required.

· **After inhalation** Supply fresh air and seek medical advice.

· **After skin contact** Immediately wash with water and soap and rinse thoroughly.

· **After eye contact** Rinse opened eye for several minutes under running water.

(Contd. on page 2)

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

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· **After swallowing** Immediately call a doctor.

### 5 Fire fighting measures

- **Suitable extinguishing agents**  
CO<sub>2</sub>, extinguishing powder 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 chloride**

PEL	0.1* mg/m <sup>3</sup> *For metal dust & fume, as Co
REL	0.05* mg/m <sup>3</sup> *For metal dust & fume, as Co
TLV	0.02,A3 mg/m <sup>3</sup> 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.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.

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

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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. latex, nitrile, or equivalent).

· **Eye protection:** Safety glasses

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

### 9 Physical and chemical properties:

· **General Information**

<b>Form:</b>	Solid.
<b>Color:</b>	According to product specification
<b>Odor:</b>	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.

· **Vapor pressure:** Not applicable

· **Density:** Not determined

· **Solubility in / Miscibility with**

**Water:** Soluble

· **pH-value:** Not applicable

### 10 Stability and reactivity

· **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

· **Dangerous products of decomposition:** No dangerous decomposition products known

### 11 Toxicological information

· **Acute toxicity:**

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

**7646-79-9 cobalt chloride**

Oral	LD50	80 mg/kg (rat)
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**Product name: Palladium Catalyst Sachet  
(GasPak Plus Bulk Kit)**

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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:**  
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.  
Must adhere to state and federal regulations.  
Disposal must be made according to the regulations found in 40 CFR 261.  
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
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -

### 15 Regulations

- **SARA Section 355 (extremely hazardous substances)**  
None of the ingredients is listed.

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**Product name: Palladium Catalyst Sachet  
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**· SARA Section 313 (specific toxic chemical listings)**

None of the ingredients is listed.

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

7646-79-9 cobalt chloride

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

None of the ingredients is listed.

**· California Proposition 65 - Chemicals known to cause reproductive 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.

**· MAK (German Maximum Workplace Concentration)**

None of the ingredients is listed.

**· Product related hazard informations:**

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

**· Hazard symbols:**

T Toxic

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

cobalt chloride

**· 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.

USA

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

Printing date 06/27/2003

Reviewed on 06/27/2003

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

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**16 Other information:**

*To the best of our knowledge, the information contained herein is accurate. However, neither BD 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