



Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 01/11/2006

Reviewed on 06/14/2005

1 Identification of substance:

- **Product name:** Nitrate C Reagent
- **Catalog number:** 261207
- **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:**
7440-66-6 zinc powder 100.00%
- **Identification number(s):**
- **EINECS Number:** 231-175-3
- **EU Number:** 030-001-00-1

3 Hazards identification

- **Hazard description:**



F Highly flammable

- **Information pertaining to particular dangers for man and environment**
R 15 Contact with water liberates extremely flammable gases.
R 17 Spontaneously flammable in air.
R 36/38 Irritating to eyes and skin.
- **NFPA ratings (scale 0-4)**



Health = 3
Fire = 4
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.
- **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** Call a doctor immediately.

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USA



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- **Personal Protective Equipment**
- **General protective and hygienic measures** Wash hands before breaks and at the end of work.
- **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: Powder
Color: Silver gray
Odor: Odorless

· Change in condition

Melting point/Melting range: 419.5°C (787°F)
Boiling point/Boiling range: 907°C (1665°F)

· **Flash point:** Not applicable

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

· **Auto igniting:** Spontaneously flammable in air.

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

· **Density:** Not determined

· Solubility in / Miscibility with

Water: Insoluble

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Materials to be avoided:**
Incompatible materials: :



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Zinc oxide (ZnO)

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11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Subacute to chronic toxicity:** Target organs: respiratory system
- **Additional toxicological information:**

Irritant

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 danger class 3 (SEW-assessment): extremely hazardous for water.



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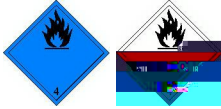
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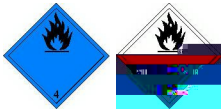
· Remarks: This product can be transported using the "small quantity" exception. This package conforms to 49 CFR 173.4. The Hazard Class, Identification number, and Packing group listed above is for informational purposes only.

· Land transport ADR/RID (cross-border)



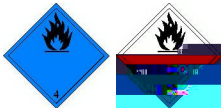
· ADR/RID class: 4.3 (WS) Substances which, in contact with water, emit flammable gases
· Danger code (Kemler): 423
· UN-Number: 1436
· Packaging group: II
· Description of goods: 1436 ZINC POWDER

· Maritime transport IMDG:



· IMDG Class: 4.3
· UN Number: 1436
· Label 4.3 +4.2
· Packaging group: II
· EMS Number: F-G,S-O
· Marine pollutant: No
· Proper shipping name: ZINC POWDER

· Air transport ICAO-TI and IATA-DGR:



· ICAO/IATA Class: 4.3
· UN/ID Number: 1436
· Label 4.3 +4.2
· Packaging group: II
· Proper shipping name: ZINC POWDER
· 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)

Substance is not listed.

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· 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.

· NTP (National Toxicology Program)

Substance is not listed.

· TLV (Threshold Limit Value established by ACGIH)

Substance is not listed.

· Product related hazard information:

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

· Hazard symbols:

F Highly flammable

· Hazard-determining components of labeling:

zinc powder

· Risk phrases:

15 Contact with water liberates extremely flammable gases. Spontaneously flammable (bols: TjET85.68 440.28 m526.56 440.28 IS85.68 440.28)

· HooTDis: