

1 Identification of substance:

- **Product name:** PYR Reagent Dropper
- **Catalog number:** 261196
- **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:**
- **Identification number(s):** Not applicable
- **Chemical characterization**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

109-86-4	2-methoxyethanol	4.8%
64-19-7	acetic acid	2.6%
75-12-7	formamide	2.3%

3 Hazards identification

· **Hazard description:**



T Toxic

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

R 20/22 Harmful by inhalation and if swallowed.

R 37/38 Irritating to respiratory system and skin.

R 60 May impair fertility

R 61 May cause harm to the unborn child

· **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

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4 First aid measures

- **General information** No special measures required.
- **After inhalation** Supply fresh air; consult doctor 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.
- **Information for doctor**
- **The following symptoms may occur:**
 - Headache
 - Respiratory arrest
 - Nausea
- **Danger**
 - Danger of gastric perforation.
 - Danger of impaired breathing.

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.
- **Special hazards caused by the material, its products of combustion or resulting gases:**
During heating or in case of fire toxic 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:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).
- **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:** Store in cool, dry place in tightly closed containers.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage**
- **Requirements to be met by storerooms and receptacles:** 15 - 30 C
- **Information about storage in one common storage facility:**
 - Store away from oxidizing agents.
 - Do not store together with reducing agents, heavy-metal compounds, acids and alkalis.
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed containers.

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8 Exposure controls and personal protection

· **Additional information about design of technical systems:** Not applicable

· **Components with limit values that require monitoring at the workplace:**

109-86-4 2-methoxyethanol

PEL 80 mg/m³, 25 ppm

Skin

REL 0.3 mg/m³, 0.1 ppm

Skin

TLV 16 mg/m³, 5 ppm

Skin; BEI

64-19-7 acetic acid

PEL 25 mg/m³, 10 ppm

REL Short-term value: 37 mg/m³, 15 ppm

Long-term value: 25 mg/m³, 10 ppm

TLV Short-term value: 37 mg/m³, 15 ppm

Long-term value: 25 mg/m³, 10 ppm

75-12-7 formamide

REL 15 mg/m³, 10 ppm

Skin

TLV 18 mg/m³, 10 ppm

Skin

· **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: Clear

Odor: Odorless

· **Change in condition** Undetermined

· **Melting point/Melting range:** Not determined

· **Boiling point/Boiling range:** Not determined

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· Flash point:	<i>Not applicable</i>
· Auto igniting:	<i>Product is not self igniting.</i>
· Danger of explosion:	<i>Product does not present an explosion hazard.</i>
· Density:	<i>Not determined</i>
· Solubility in / Miscibility with Water:	<i>Partly soluble</i>
· pH-value:	<i>Neutral</i>
· Solvent content: Organic solvents:	<i>9.7 %</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:**
*Carbon monoxide (CO) and carbon dioxide (CO₂)
Nitrogen oxides (NO_x)*

11 Toxicological information

· **Acute toxicity:**

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

109-86-4 2-methoxyethanol

Oral	LD50	3400 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rbt)

75-12-7 formamide

Oral	LD50	5570 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:**
 - Sensitization possible through inhalation.*
 - Sensitization possible through skin contact.*
- **Subacute to chronic toxicity:** *Target organs: respiratory tract, eyes, kidneys, and skin.*
- **Additional toxicological information:**
 - The product is not subject to OSHA classification according to internally approved calculation methods for preparations.*
 - Product is suspected to cause damage to fertility.*
 - Irritant*
 - The product shows the following dangers according to internally approved calculation methods for preparations:*

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Printing date 01/11/2006

Reviewed on 10/30/2003

Product name: PYR Reagent Dropper

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California Proposition 65 - Warning: This product was sterilized with ethylene oxide, and is known to the State of California to cause cancer.

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 not 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.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to state and federal regulations.

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.

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

109-86-4	2-methoxyethanol
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- **TSCA (Toxic Substances Control Act)**

109-86-4	2-methoxyethanol
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64-19-7	acetic acid
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151-21-3	sodium dodecyl sulfate
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75-12-7	formamide
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	p-dimethylaminocinnamaldehyde
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· 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:

109-86-4 2-methoxyethanol

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

109-86-4 2-methoxyethanol

· 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:

Observe the general safety regulations when handling chemicals

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

· Hazard symbols:

T Toxic

· Hazard-determining components of labeling:2-methoxyethanol
formamide**· Risk phrases:**

20/22 Harmful by inhalation and if swallowed.

37/38 Irritating to respiratory system and skin.

60 May impair fertility

61 May cause harm to the unborn child

· Safety phrases:

36/37 Wear suitable protective clothing and gloves.

39 Wear eye/face protection.

9 Keep container in a well-ventilated place.

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

53 Avoid exposure - obtain special instructions before use.

1/2 Keep locked up and out of the reach of children.

13 Keep away from food, drink and animal feedingstuffs.

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

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Material Safety Data Sheet
acc. to ISO/DIS 11014

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- **National regulations**
- **Additional classification according to Decree on Hazardous Materials:**
 - CERCLA: *This product contains acetic acid which has a reportable quantity (RQ) of 5,000 pounds.*
 - SARA 311/312: *Not subject to reporting.*
 - 313: *Maybe subject to reporting*
 - TSCA: *Not subject to reporting*

· Technical instructions (air):

Class	Share in %
Water	87.7
II	7.5
NK	2.3

16 Other information:

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

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