BECKMAN COULTER

# SAFETY DATA SHEET

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## Section 1 Identification of the Substance/mixture and of the Company/undertaking

**1.1 Product Identifier**

**Product Name** MicroScan Peptidase

**Part Number** 10444446, 10444542, 10444559, 6659-30/W, B1012-30B, B1015-30, B1015-55

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

**Product Use** For In Vitro Diagnostic Use. See product literature for details.

**1.3 Details of the supplier of the safety data sheet**

**Manufacturer**

Beckman Coulter, Inc.
250 S. Kraemer Blvd
Brea, CA 92821, U.S.A.
Tel: 800-854-3633

**EC REP Address**

Beckman Coulter Eurocenter S.A.
22, rue Juste-Oliver, Case Postale 1044,
CH-1260 Nyon 1, Switzerland.
Telephone +41 (0)22 365 36 11
Monday through Friday, 9:00 am to 7:00pm)

**e-mail address** SDSNT@beckman.com

**1.4 Emergency telephone number**

**Telephone number (24H)** Chemtrec Emergency Tel No. U.S.A. 800-424-9300, International (001) 703-527-3887

**Distributor and Emergency Phone No.**

Refer to attached list, Document ID: 472050, for local distributor and emergency phone numbers.

## Section 2 Hazards Identification

**2.1 Classification of substance or mixture**

**Product Description** Mixture

Yellowish; Clear; Liquid; Pungent

**Classification according to EC 1272/2008 (CLP/GHS)**

Eye Irritation Category 2
Toxic to Reproductive Category 1B
Aquatic Hazard Long term, Category 3

**Classification according to EC Directives 1999/45/EC and 67/548/EEC**

T;R60-61

**Classification according to US-OSHA (HCS 29 CFR 1910.1200) and UN GHS**

Aquatic Hazard Long term, Category 3

## Section 2 Hazards Identification (Continued)

**2.2 Label Elements**

**According to EC 1272/2008 (CLP/GHS), US-OSHA and UN GHS**

**Hazardous Ingredients**

Acetic Acid
N,N-Dimethylformamide
Sodium Lauryl Sulfate
2-Methoxyethanol

**Pictogram**

**Signal Word**

DANGER

**Hazard Statements**

H319 Causes serious eye irritation.
H360 May damage fertility or the unborn child.
H412 Harmful to aquatic life with long lasting effects.

**Precautionary Statements**

P201 Obtain special instructions before use.
P273 Avoid release to the environment.
P280 Wear protective gloves, protective clothing and eye/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/national regulations
Product label will display most significant precautionary statements.

**2.3 Other hazards**

Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

*See Section 11 Toxicological Information for more detailed health information.*

## Section 3 Composition and Information on Ingredients

**3.2 Mixtures**

| Hazardous Ingredients: | | Hazard Classification of Pure Ingredients | | | |
|---|---|---|---|---|---|
| **Chemical Name** | **% by wt.** | **EU-67/548/EEC** | **EU 1272/2008 CLP/GHS** | **GHS** | |

## Section 3 Composition and Information on Ingredients (Continued)

| | | | | | |
|---|---|---|---|---|---|
| 2-Methoxyethanol<br>CAS # 109-86-4<br>EINECS # 203-713-7<br>Index # 603-011-00-4 | 1 - 5 | T;R10-20/21/22-47-60-61<br>Repr. Cat. 2 | Acute Tox. Dermal 4<br>Acute Tox. Inhal. 4<br>Acute Tox. Oral 4<br>Flam. Liq. 3<br>Repr. 1B<br>H226; H302; H312; H332; H360 | Acute Tox. Dermal 4<br>Acute Tox. Inhal. 4<br>Acute Tox. Oral 4<br>Flam. Liq. 3<br>Repr. 1B<br>H226; H302; H312; H332; H360 | |
| Acetic Acid<br>CAS # 64-19-7<br>EINECS # 200-580-7<br>Index # 607-002-00-6 | 1 - <3 | C;R10-35 | Flam. Liq. 3<br>Skin Corr. 1A<br>H226; H314 | Flam. Liq. 3<br>Skin Corr. 1A<br>H226; H314 | |
| Sodium Lauryl Sulfate<br>CAS # 151-21-3<br>EINECS # 205-788-1<br>Index # Not available | 1 - 5 | F;R11<br>Xn;R21/22-36/37/38 | Acute Tox. Oral 4<br>Eye Irrit. 2A<br>Flam. Sol. 2<br>Skin Irrit. 2<br>H228; H302; H315; H319 | Acute Tox. Oral 4<br>Eye Irrit. 2A<br>Flam. Sol. 2<br>Skin Irrit. 2<br>H228; H302; H315; H319 | |
| N,N-Dimethylformamide<br>CAS # 68-12-2<br>EINECS # 200-679-5<br>Index # 616-001-00-X | 1 - 3 | T;R61-20/21-36<br>Repr. Cat. 2 | Acute Tox. Dermal 4<br>Acute Tox. Inhal. 4<br>Eye Irrit. 2<br>Flam. Liq. 3<br>Repr. 1B<br>H226; H312; H319; H332; H360 | Acute Tox. Dermal 4<br>Acute Tox. Inhal. 4<br>Eye Irrit. 2<br>Flam. Liq. 3<br>Repr. 1B<br>H226; H312; H319; H332; H360 | SVHC |

SVHC - Substance of very high concern

*See section 8 for available Occupational exposure limits*
*See Section 15 for additional regulatory information*
*See Section 16 for hazard class, hazard statements and risk phrase description*

## Section 4 First Aid Measures

### 4.1 Description of first aid measures

**Inhalation** — If product is inhaled, move exposed individual to fresh air. If individual is not breathing, begin artificial respiration immediately and obtain medical attention.

**Eye Contact** — If product enters eyes, wash eyes gently under running water for 15 minutes or longer, making sure that the eyelids are held open. If pain or irritation occur, obtain medical attention.

**Skin Contact** — In case of skin contact, flush with copious amounts of water for at least 15 minutes. If pain or irritation occur, obtain medical attention.

**Ingestion** — If ingested, wash mouth out with water. If irritation or discomfort occurs, seek medical attention.

### 4.2 Most important symptoms and effects, both acute and delayed

May cause eye irritation.
See Section 11 Toxicological Information for more detailed health information.

### 4.3 Indication of any immediate medical attention and special treatment needed

No specific medical attention or treatment required.

## Section 5 Fire Fighting Measures

**Flammable Properties** Nonflammable aqueous solution.

**5.1 Extinguishing Media** In case of fire use carbon dioxide (CO2), dry chemical, water spray or foam.
For large fires use extinguishing media suitable for surrounding fire.

**5.2 Special hazards arising from the substance or mixture**

**Special Fire and Explosion Hazards**

No special hazards determined.

**Hazardous Combustion Products**

No combustion products posing significant hazards are expected from this product (an aqueous solution).

**5.3 Advice for fire fighters**

**Protective Equipment** Self-contained breathing apparatus is recommended for firefighters in all chemical fire situations.

**5.4 Additional information** No further relevant information available.

## Section 6 Accidental Release Measures

**6.1 Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Observe general safety guidelines for protection; avoid eye and skin contact.
Wear protective gloves, protective clothing and tightly sealed eye/face protection.

**6.2 Environmental Precautions** Contain spill to prevent migration.
Do not allow the undiluted product to enter sewers/surface or ground water.
Dispose of contents/container in accordance with local regulations

**6.3 Methods and material for containment and cleaning up**

**Spill and Leak Procedures** Absorb spilled material with an appropriate inert, non-flammable absorbent and dispose according to local regulations.

**6.4 Reference to other sections** Refer sections 8 and 13.

## Section 7 Handling and Storage

**7.1 Precautions for safe handling** Use good laboratory procedures; avoid eye and skin contact.

**7.2 Conditions for safe storage, including any incompatibilities**

Store at 2 to 8°C , as directed on the product label.
To maintain product quality, store according to the instructions in the product labeling.
Store away from strong acids, strong bases, strong oxidizers and incompatible materials (section 10).

**7.3 Specific end uses** No further relevant information available.

# Section 8 Exposure Controls and Personal Protection

## 8.1 Control parameters

### Exposure Limits

### US OSHA

| | |
|---|---|
| Acetic Acid<br>CAS # 64-19-7 | 10 ppm TWA; 25 mg/m3 TWA |
| N,N-Dimethylformamide<br>CAS # 68-12-2 | 10 ppm TWA; 30 mg/m3 TWA; prevent or reduce skin absorption |
| 2-Methoxyethanol<br>CAS # 109-86-4 | 25 ppm TWA; 80 mg/m3 TWA; prevent or reduce skin absorption |

### ACGIH

| | |
|---|---|
| Acetic Acid<br>CAS # 64-19-7 | 15 ppm STEL; 10 ppm TWA |
| N,N-Dimethylformamide<br>CAS # 68-12-2 | 10 ppm TWA; Skin - potential significant contribution to overall exposure by the cutaneous route |
| 2-Methoxyethanol<br>CAS # 109-86-4 | 0.1 ppm TWA; Skin - potential significant contribution to overall exposure by the cutaneous route |

### DFG MAK

| | |
|---|---|
| Acetic Acid<br>CAS # 64-19-7 | 20 ppm Peak; 50 mg/m3 Peak; 10 ppm TWA MAK; 25 mg/m3 TWA MAK |
| N,N-Dimethylformamide<br>CAS # 68-12-2 | 10 ppm Peak; 30 mg/m3 Peak; skin notation; 5 ppm TWA MAK; 15 mg/m3 TWA MAK |
| 2-Methoxyethanol<br>CAS # 109-86-4 | 8 ppm Peak; 25.6 mg/m3 Peak; skin notation; 1 ppm TWA MAK; 3.2 mg/m3 TWA MAK |

### Ireland

| | |
|---|---|
| Acetic Acid<br>CAS # 64-19-7 | 10 ppm TWA; 25 mg/m3 TWA; 15 ppm STEL; 37 mg/m3 STEL |
| N,N-Dimethylformamide<br>CAS # 68-12-2 | 10 ppm TWA; 30 mg/m3 TWA; 20 ppm STEL; 60 mg/m3 STEL; Potential for cutaneous absorption |
| 2-Methoxyethanol<br>CAS # 109-86-4 | 1 ppm TWA; 3 ppm STEL (calculated); Potential for cutaneous absorption |

### IOELVs

| | |
|---|---|
| N,N-Dimethylformamide<br>CAS # 68-12-2 | 10 ppm STEL; 30 mg/m3 STEL; 5 ppm TWA; 15 mg/m3 TWA; Possibility of significant uptake through the skin |
| 2-Methoxyethanol<br>CAS # 109-86-4 | 1 ppm TWA; Possibility of significant uptake through the skin |

### NIOSH

| | |
|---|---|
| Acetic Acid<br>CAS # 64-19-7 | 50 ppm IDLH; 15 ppm STEL; 37 mg/m3 STEL; 10 ppm TWA; 25 mg/m3 TWA |
| N,N-Dimethylformamide<br>CAS # 68-12-2 | 500 ppm IDLH; 10 ppm TWA; 30 mg/m3 TWA |
| 2-Methoxyethanol<br>CAS # 109-86-4 | 200 ppm IDLH; 0.1 ppm TWA; 0.3 mg/m3 TWA |

## Section 8 Exposure Controls and Personal Protection (Continued)

**Japan**

| | |
|---|---|
| Acetic Acid<br>CAS # 64-19-7 | 10 ppm OEL; 25 mg/m3 OEL |
| N,N-Dimethylformamide<br>CAS # 68-12-2 | 10 ppm OEL; 30 mg/m3 OEL |
| 2-Methoxyethanol<br>CAS # 109-86-4 | 0.1 ppm OEL; 0.31 mg/m3 OEL |

**8.2 Exposure controls**

| | |
|---|---|
| **Engineering Controls** | No special engineering controls are required. Use with good general ventilation. |
| **Eye Protection** | Safety glasses or chemical goggles should be worn to prevent eye contact. Refer U.S. OSHA 29 CFR 1910.133, European Standard EN166 or appropriate government standards. |
| **Skin Protection** | Impervious gloves, such as Nitrile or equivalent, should be worn to prevent skin contact. Refer U.S. OSHA 29 CFR 1910.138, European Standard EN374 or appropriate government standards. |
| **Respiratory Protection** | Under normal conditions, the use of this product should not require respiratory protection. If overexposure should occur and ventilation is not adequate to maintain airborne concentrations at acceptable levels, the use of respiratory protection should be evaluated by a qualified professional. |

## Section 9 Physical and Chemical Properties

**9.1 Information on basic physical and chemical properties**

| | | | |
|---|---|---|---|
| **Physical State** | Liquid | **Specific Gravity (Water=1.0)** | Not determined |
| **Color** | Yellowish | **Solubility** | |
| **Transparency** | Clear | **Water** | Miscible |
| **Odor** | Pungent | **Organic** | Not determined |
| **pH** | Not determined | **Partition coefficient: n-octanol/water** | Not determined |
| **Freezing Point** | Not determined | **Auto-ignition Temp.** | Not determined |
| **Boiling Point** | Not determined | **Decomposition Temperature** | Not determined |
| **Flash Point** | 99°C (210.2°F) | **Percent Volatiles** | Not determined |
| **Evaporation Rate** | Not determined | **Vapor Pressure** | Not determined |
| **Flammability (Solid, Gas)** | Not applicable | **Viscosity** | Not determined |
| **Flammability Limits** | Not determined | **Explosive Properties** | Not applicable |
| **Vapor Density** | Not determined | **Oxidizing Properties** | Not applicable |

## Section 9 Physical and Chemical Properties (Continued)

**Odor Threshold**

Acetic Acid 0.074 ppm geometric mean air odor threshold = (detectable)

N,N-Dimethylformamide no geometric mean air odor threshold

2-Methoxyethanol 2.4 ppm geometric mean air odor threshold = (detectable); 4.4 ppm geometric mean air odor threshold = (recognizable)

**9.2 Other Information**

No further relevant information available.

## Section 10 Stability and Reactivity

**10.1 Reactivity**

No further relevant information available.

**10.2 Chemical Stability**

The product is stable in accordance with recommended storage conditions.

**10.3 Possibility of hazardous reactions**

No further relevant information available.

**10.4 Conditions to Avoid**

To maintain product performance keep away from strong acids, strong bases, strong oxidizers.

Avoid exposure to heat and direct sunlight.

**10.5 Incompatible materials**

No further relevant information available.

**10.6 Hazardous Decomposition Products**

No decomposition products posing significant hazards would be expected from this product (an aqueous solution).

## Section 11 Toxicological Information

**11.1 Information on toxicological effects**

**Toxicity Data for Hazardous Ingredients**

| | |
|---|---|
| Acetic Acid<br>CAS # 64-19-7 | Dermal LD50 Rabbit 1060 mg/kg; Inhalation LC50 Rat 11.4 mg/L 4 h; Oral LD50 Rat 3310 mg/kg |
| N,N-Dimethylformamide<br>CAS # 68-12-2 | Oral LD50 Rat 2000 mg/kg; Dermal LD50 Rat >3.2 g/kg |
| 2-Methoxyethanol<br>CAS # 109-86-4 | Dermal LD50 Rabbit 1280 mg/kg; Inhalation LC50 Rat 1478 ppm 7 h; Oral LD50 Rat 2370 mg/kg |
| Sodium Lauryl Sulfate<br>CAS # 151-21-3 | Inhalation LC50 Rat >3900 mg/m3 1 h; Oral LD50 Rat 1288 mg/kg; Dermal LD50 Rabbit 580 mg/kg |

**Primary Routes of Exposure**

Eye contact, ingestion, inhalation, and skin contact.

**Skin Corrosion/Irritation**

No data available.

**Serious eye damage/eye irritation**

May cause eye irritation.

**Respiratory/skin sensitization**

No data available.

**Carcinogenicity**

No ingredients in this product are listed as carcinogens by ACGIH, IARC, NTP, OSHA or 1272/2008 EC regulation.

**Germ cell mutagenicity**

No data available.

## Section 11 Toxicological Information (Continued)

**Reproductive Toxicity** May damage fertility or the unborn child.

**Specific target organ toxicity – single exposure**

No data available.

**Specific target organ toxicity – repeated exposure**

No data available.

**Aspiration hazard** No data available.

**Other Information** No further relevant information available.

## Section 12 Ecological Information

### 12.1 Ecotoxicity

**Fresh Water Species**

| | |
|---|---|
| Acetic Acid<br>CAS # 64-19-7 | 96 h LC50 Pimephales promelas: 79 mg/L [static]; 96 h LC50 Lepomis macrochirus: 75 mg/L [static] |
| N,N-Dimethylformamide<br>CAS # 68-12-2 | 96 h LC50 Lepomis macrochirus: 6300 mg/L; 96 h LC50 Oncorhynchus mykiss: 9800 mg/L [flow-through]; 96 h LC50 Pimephales promelas: 10410 mg/L [flow-through] |
| 2-Methoxyethanol<br>CAS # 109-86-4 | 96 h LC50 Lepomis macrochirus: 10000 mg/L [static]; 96 h LC50 Lepomis macrochirus: 9650 mg/L [static]; 96 h LC50 Oncorhynchus mykiss: 16000 mg/L [static] |
| Sodium Lauryl Sulfate<br>CAS # 151-21-3 | 96 h LC50 Pimephales promelas: 8-12.5 mg/L [static] (fry); 96 h LC50 Pimephales promelas: 15-18.9 mg/L [static] (juvenile); 96 h LC50 Pimephales promelas: 22.1-22.8 mg/L [static] (adult); 96 h LC50 Oncorhynchus mykiss: 4.3-8.5 mg/L [static]; 96 h LC50 Oncorhynchus mykiss: 4.62 mg/L [flow-through]; 96 h LC50 Oncorhynchus mykiss: 4.2 mg/L; 96 h LC50 Brachydanio rerio: 7.97 mg/L [flow-through]; 96 h LC50 Brachydanio rerio: 9.9-20.1 mg/L [semi-static]; 96 h LC50 Lepomis macrochirus: 4.06-5.75 mg/L [static]; 96 h LC50 Lepomis macrochirus: 4.2-4.8 mg/L [flow-through]; 96 h LC50 Lepomis macrochirus: 4.5 mg/L; 96 h LC50 Pimephales promelas: 5.8-7.5 mg/L [static]; 96 h LC50 Pimephales promelas: 10.2-22.5 mg/L [semi-static]; 96 h LC50 Pimephales promelas: 6.2-9.6 mg/L; 96 h LC50 Poecilia reticulata: 13.5-18.3 mg/L [semi-static]; 96 h LC50 Poecilia reticulata: 10.8-16.6 mg/L [static]; 96 h LC50 Cyprinus carpio: 1.31 mg/L [semi-static] |
| **Microtox** | No information available. |

**Water Flea**

| | |
|---|---|
| Acetic Acid<br>CAS # 64-19-7 | 48 h EC50 Daphnia magna: 65 mg/L [Static] |
| N,N-Dimethylformamide<br>CAS # 68-12-2 | 48 h EC50 Daphnia magna: 7500 mg/L; 48 h EC50 Daphnia magna: 8485 mg/L [semi-static]; 48 h EC50 Daphnia magna: 6800 - 13900 mg/L [Static] |
| Sodium Lauryl Sulfate<br>CAS # 151-21-3 | 48 h EC50 Daphnia magna: 1.8 mg/L |

## Section 12 Ecological Information (Continued)

**Fresh Water Algae**

| | |
|---|---|
| N,N-Dimethylformamide<br>CAS # 68-12-2 | 96 h EC50 Desmodesmus subspicatus: >500 mg/L |
| Sodium Lauryl Sulfate<br>CAS # 151-21-3 | 72 h EC50 Desmodesmus subspicatus: 53 mg/L; 96 h EC50 Desmodesmus subspicatus: 30 - 100 mg/L; 96 h EC50 Pseudokirchneriella subcapitata: 117 mg/L; 96 h EC50 Pseudokirchneriella subcapitata: 3.59 - 15.6 mg/L [static] |

**12.2 Persistence and degradability** Not determined for the product.

**12.3 Bioaccumulation** Not determined for the product.

**12.4 Mobility in soil** Not determined for the product.

**12.5 Results of PBT and vPvB assessment**

Not determined for the product. PBT: Not applicable, vPvB: Not applicable.

**12.6 Other Adverse Effects** This product is classified as environmentally hazardous. Do not allow undiluted product to enter sewer/surface or ground water. Dispose of contents/container to in accordance with local/national regulations

## Section 13 Disposal Considerations

**13.1 Waste treatment methods**

**Product Waste Disposal** Chemical residues and remains should be routinely handled as special waste. This must be disposed of in compliance with anti-pollution and other laws of the country concerned. To ensure compliance we recommend that you contact the relevant (local) authorities and/or an approved waste-disposal company for information.

**Package disposal** Dispose of waste product, unused product and contaminated packaging in compliance with federal, state and local regulations. If unsure of the applicable requirements, contact the authorities for information.

**13.2 Additional information** Suggested European waste catalogue 18 01 06* - chemicals consisting of or containing dangerous substances. Dispose in accordance with national, state and local waste regulations.

## Section 14 Transport Information

Transportation of this product is not regulated under ICAO, IMDG, US DOT, European ADR or Canadian TDG.

## Section 15 Regulatory Information

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**US Federal and State Regulations**

**SARA 313** N,N-Dimethylformamide is subject to reporting requirements of Section 313, Title III of SARA. 1.0 % de minimis concentration

2-Methoxyethanol is subject to reporting requirements of Section 313, Title III of SARA. 1.0 % de minimis concentration

**CERCLA RG's, 40 CFR 302.4** Acetic Acid is listed.

N,N-Dimethylformamide is listed.

## Section 15 Regulatory Information (Continued)

**California Proposition 65**

2-Methoxyethanol has been identified by the State of California to cause reproductive harm. The State of California has adopted a regulation which requires a warning be given to individual who may be exposed to chemicals identified by the State to cause cancer or reproductive harm.
**WARNING**: This product contains a chemical known to the State of California to cause reproductive harm.

**Massachusetts MSL**

Acetic Acid is listed.
N,N-Dimethylformamide is listed.
2-Methoxyethanol is listed.

**New Jersey Dept. of Health RTK List**

Acetic Acid is listed.
N,N-Dimethylformamide is listed.
2-Methoxyethanol is listed.

**Pennsylvania RTK**

Acetic Acid is listed.
N,N-Dimethylformamide is listed.
2-Methoxyethanol is listed.

**EU Regulations**

This SDS complies with EC Regulations 1907/2006 (REACH) and amendments.

**Water Hazard Class (Germany)** WGK 1, low water endangering

**REACH 1907/2006 EC - Annex XIV - list of substances subject to authorization.**

No ingredients listed.

**According to EC Directives (1999/45/EC and 67/548 EEC)**


**Risk and Safety Phrases**

R60 May impair fertility.
R61 May cause harm to unborn child.
S53 Avoid exposure - obtain special instructions before use.

**Canada**

This product is exempt from WHMIS label and SDS requirements.

**PIN** Not applicable

**Ingredients on Ingredient Disclosure List**

Acetic Acid
N,N-Dimethylformamide
2-Methoxyethanol
Sodium Lauryl Sulfate

**Ingredients with unknown toxicological properties**

Product is exempt

**15.2 Chemical Safety Assessment** A Chemical Safety Assessment has not been carried out.

*Some hazardous ingredients listed in Section 15 are below OSHAs and WHMIS' 1.0% w/w (0.1% for carcinogens) or EU's ingredient specific concentrations required for reporting in Section 3.*

## Section 16 Other Information

| Beckman Coulter Safety Rating | | |
|---|---|---|
| | **Flammability: 0**<br>**Health: 3**<br>**Reactivity with Water: 0**<br>**Contact: 3** | Code<br>0=None<br>1=Slight<br>2=Caution<br>3=Severe |

**Hazard Class, hazard statements and risk phrase description from section 3**

C - Corrosive
F - Highly flammable
T - Toxic
Repr. Cat. 2 - Toxic for Reproduction Category 2
Xn - Harmful
R10 Flammable.
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R47 May cause birth defects.
R60 May impair fertility.
R61 May cause harm to unborn child.
R35 Causes severe burns.
R11 Highly flammable.
R21/22 Harmful in contact with skin and if swallowed.
R36/37/38 Irritating to eyes, respiratory system and skin.
R20/21 Harmful by inhalation and in contact with skin.
R36 Irritating to eyes.
Acute Tox. Dermal 4 - Acute Toxicity Dermal, Category 4
Acute Tox. Inhal. 4 - Acute Toxicity Inhalation, Category 4
Acute Tox. Oral 4 - Acute Toxicity Oral, Category 4
Eye Irrit. 2 - Eye Irritation Category 2
Eye Irrit. 2A - Eye Irritation Category 2A
Flam. Liq. 3 - Flammable Liquids, Category 3
Flam. Sol. 2 - Flammable Solids, Category 2
Skin Corr. 1A - Skin Corrosion Category 1A
Skin Irrit. 2 - Skin Irritation Category 2
Repr. 1B - Toxic to Reproductive Category 1B
H226 - Flammable liquid and vapour.
H228 - Flammable solid.
H302 - Harmful if swallowed.
H312 - Harmful in contact with skin.
H314 - Causes severe skin burns and eye damage.
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H332 - Harmful if inhaled.
H360 - May damage fertility or the unborn child.

## Section 16 Other Information (Continued)

**Abbreviations and Acronyms**

ACGIH - American Conference of Governmental Industrial Hygienists
ADR - European Agreement Concerning The International Carriage Of Dangerous Goods By Road
CERCLA - The Comprehensive Environmental Response, Compensation, and Liability Act
CLP - Classification, Labeling and Packaging
DFGMAK - Republic Germany's maximum exposure limit
GHS - Globally Harmonized System
HCS - Hazard Communication Standard
IARC - International Agency for Research on Cancer
IATA - International Air Transport Association
ICAO - International Civil Aviation Organization
IMDG - International Maritime Dangerous Goods
IOELVs - European Unions' Indicative Occupational Exposure Limit Values
NIOSH - National Institute for Occupational Safety and Health
NTP - National Toxicology Program
OSHA - Occupational Safety and Health Administration
PBT - Persistent bioaccumulative and toxic substances
SARA - Superfund Amendments and Reauthorization Act
TDG - Canadian Transportation Of Dangerous Goods Regulations.
UN GHS - United Nations Globally Harmonized System
US DOT - United States Department of Transportation
WHMIS - Workplace Hazardous Material Information System
vPvB - Very persistent and very bioaccumulative substances
LC50 - Lethal Concentration, 50%
LD50 - Lethal Dose, 50%
EC50 - Effective Concentration, 50%



For further information, please contact your local Beckman Coulter, Inc. representative.