SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

1.1 Product Identifier
Product Name   BaseScope™ Duplex AMP 4
Product No    323814

1.2 Relevant identified uses of the substance or mixture and uses advised against
Identified uses   For Research Use Only. Not for diagnostic use.

Details of the supplier of the safety data sheet
Supplier    Advanced Cell Diagnostics
            7707 Gateway Blvd.
            Newark, CA 94560
            Tel: (510) 576-8800

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
Classification (EC 1272/2008)
- Physical and Chemical  Not classified
- Human health   Repr. 1B – H360D
- Environment   Not classified

Classification (1999/45/EEC)  Repr. Cat. 2; R61.
The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

2.2 Label elements
Contains FORMAMIDE
Label In Accordance with (EC) No. 1272/2008

Signal word  Danger
Hazard statements
- H360D   May damage the unborn child.

Precautionary Statements
- P201  Obtain special instructions before use.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P501  Dispose of contents/container in accordance with national regulations.

Supplemental Precautionary Statements
- P202  Do not handle until all safety precautions have been read and understood.
- P281  Use personal protective equipment as required.
- P405  Store locked up.

Supplemental label information
- RCH002  Restricted to professional users

2.3 Other Hazards
Not classified as PBT/vPvB by current EU criteria.
SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Formamide</td>
<td>75-12-7</td>
<td>200-842-0</td>
<td>Repr. 1B – H360D</td>
<td>Classification (67/548/EEC)</td>
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<td></td>
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<tr>
<td>Sodium Hydroxide</td>
<td>1310-73-2</td>
<td>215-185-5</td>
<td>Classif. 1A – H314 – C3R35</td>
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</tbody>
</table>

The full text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: FIRST AID AND MEASURES

4.1 Description of first aid measures

General information
Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

Inhalation
Move the exposed person to fresh air at once. Provide rest, warmth, and fresh air. Get medical attention if any discomfort continues. Perform artificial respiration if breathing has stopped. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.

Ingestion
DO NOT INDUCE VOMITING! NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Rinse mouth thoroughly. Provide rest, warmth and fresh air. Get medical attention.

Skin Contact
Remove affected person from source of contamination. Wash the skin immediately with soap and water. Get medical attention if symptoms occur after washing.

Eye Contact
Remove victim immediately from source of exposure. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

General information
No specific information

4.3 Indication of any immediate medical attention and special treatment needed

Treat Symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

5.1 Extinguishing Media

Extinguishing Media
This product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products
Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

5.3 Advice for fire fighters

Special Fire Fighting Procedures
Cool containers exposed to flames with water until well after the fire is out. Move container from fire area if it can be done without risk. Dike and collect extinguishing water.

Protective equipment for fire fighters
Self contained breathing apparatus and full protective clothing must be worn in case of fire.
SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear protective clothing as described in Section 8 of this safety data sheet.

6.2 Environmental Precautions
Do not discharge into drains, water courses or onto the ground.

6.3 Methods and material for containment and cleaning up
Small spills may be contained and cleaned up with paper towels or absorbent pads. Absorb large spills with sand or vermiculite and place in a closed container for waste disposal. Avoid physical contact during removal.

6.4 Reference to other sections
Wear protective clothing as described in Section 8 of this safety data sheet.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with eyes, skin and clothing. Do not ingest. Wash hands thoroughly after use.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed. Keep container in a cool, well-ventilated area.

7.3 Specific end user(s)
The identified uses for this product are detained in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>STD</th>
<th>TWA – 8 Hrs</th>
<th>STEL – 15 Min</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formamide</td>
<td>WEL</td>
<td>20 ppm</td>
<td>37 mg/m$^3$</td>
<td></td>
</tr>
<tr>
<td>Sodium Hydroxide</td>
<td>WEL</td>
<td>30 ppm</td>
<td>56 mg/m$^3$</td>
<td></td>
</tr>
</tbody>
</table>

WEL = Workplace Exposure Limit

8.2 Exposure controls
Protective equipment

Engineering measures
Provide adequate general and local exhaust ventilation.

Respiratory Equipment
No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit.

Hand Protection
Use protective gloves.

Eye Protection
Use approved safety goggles or face shield.

Other Protection
Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapor contact.

Hygiene measures
DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap & water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties
Appearance Clear liquid

9.2 Other information
Not available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity
No specific reactivity hazards associated with this product.

Chemical stability
Stable under normal temperature conditions and recommended use.

10.2 Possibility of hazardous reactions
Not determined.
10.3 **Conditions to avoid**
Avoid head, flames and other sources of ignition. Avoid contact with strong oxidizers. Avoid contact with strong reducing agents.

10.4 **Incompatible Materials**
Materials to avoid
Strong oxidizing substances. Strong reducing agents.

10.5 **Hazardous decomposition products**
Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

**SECTION 11: TOXICOLOGICAL INFORMATION**

11.1 **Information on toxicological effects**
**Toxicological information**
This material is toxic.

**Health warnings**
INGESTION: May cause stomach pain or vomiting. INHALATION: May cause irritation to the respiratory system. SKIN CONTACT: May cause skin irritation/eczema. May cause sensitization by skin contact. EYE CONTACT: Irritating to eyes.

**SECTION 12: ECOLOGICAL INFORMATION**

**Eco toxicity**
There are no data on the ecotoxicity of this product.

12.1 **Toxicity**
No data available.

12.2 **Persistence and degradability**
No data available.

12.3 **Bio accumulative potential**
Bio accumulative potential
No data available on bioaccumulation

12.4 **Mobility in soil**
Mobility
No data available.

12.5 **Results of PBT and vPvB assessment**
Not classified as PBT/vPvB by current EU criteria.

12.6 **Other adverse effects**
Not determined.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**General Information**
Waste is classified as hazardous waste. Dispose to licensed waste disposal site in accordance with the local Waste Disposal Authority.

13.1 **Waste treatment methods**
Dispose of waste and residues in accordance with local authority requirements.

**SECTION 14: TRANSPORT INFORMATION**

14.1 **UN Number**
Not applicable.

14.2 **UN proper shipping name**
Not applicable.

14.3 **Transport hazard class(es)**
ADR/RID/AND Class
Not classified for transportation.

14.4 **Environmental hazards**
Environmentally Hazardous Substance/Marine Pollutant
No.

14.5 **Special precautions for user**
Not applicable.

14.6 **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**
Not applicable.
SECTION 15: REGULATORY INFORMATION

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

Environmental Listing

Statutory Instruments

Approved Code of Practice
Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations.

Guidance Notes
Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. CHIP HSG(108).

EU Legislation

15.2 Chemical Safety Assessment
No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Risk Phrases in Full
R35 Causes severe burns.
R61 May cause harm to the unborn child.

Hazard Statements in Full
H314 Causes skin irritation
H360D May damage the unborn child.

Disclaimer
This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company’s knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user’s responsibility to satisfy himself as to the suitability of such information for his own particular use.