

CYANTEK CORPORATION

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PD-8650

Material Safety Data Sheet

1 Product and Company Identification:

- **Product name:** PD-8650 Negative Developer
- **Manufacturer:**
CYANTEK CORPORATION
3055 Osgood Court
Fremont, CA 94538
(510) 651-3341
- **24 Hour Emergency Telephone Number:**
CHEMTREC: (800) 424-9300 (North America): (703) 527-3887 (Int'l.)

2 Composition/Information on Ingredients:

- **Chemical formula:** KOH + C₆H₆O₂ + Na₂SO₃ + KBr + C₉H₁₀N₂O + H₂O
- **Hazardous components:**

Component	Percent by wt.	CAS Number
Potassium Hydroxide	1%	1310-58-3
Sodium Sulfite	4%	7757-83-7
Hydroquinone	1%	123-31-9
Potassium Bromide	<1%	7758-02-3
Phenidone	<1%	92-43-3
Water	93%	7732-18-5

3 Hazards identification

- **Hazard description:** Irritant
- Irritating to eyes, skin and respiratory system.
- **Classification system**
The classification was made from the hazardous components' MSDS's.

4 First aid measures

- **Inhalation:** Supply fresh air; consult doctor in case of complaint.
- **Skin contact:** Flush affected areas with plenty of water, remove contaminated clothing, get medical attention if irritation persists.
- **Eye contact:** Rinse opened eye for several minutes under running water. If irritation persists, consult a doctor.
- **Ingestion:** Give large amounts of water. Consult a doctor immediately.

5 Fire fighting measures

- **Suitable extinguishing agents:** CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment** Wear goggles, rubber gloves and boots, self contained breathing apparatus, and caustic resistant protective clothing.

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6 Accidental release measures

- **Personal precautions:** Wear goggles, rubber boots and gloves, and caustic resistant protective clothing
- **Environmental precautions:** Do not allow substance to enter sewage system, surface or ground water.
- **Methods for cleaning up:** Contain the spill by diking/absorbing with liquid-binding material (sand, diatomite, caustic binders, universal binders). Ensure adequate ventilation.

7 Handling and storage

Handling

- **Information for safe handling:**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**
No special measures required.

Storage

- Store between 50 and 77 Degrees F.
- Keep containers tightly sealed (solution oxidizes upon contact with air)
- Store away from strong acids

8 Exposure controls and personal protection

- **Engineering controls:**
No further data; see section 7.
Exposure limits (threshold limit values):

Potassium Hydroxide: 2.0 mg/m³ (ceiling)
Sodium Sulfite: None established
Hydroquinone: 2.0 mg/m³ (TWA)
Potassium Bromide: None established
Phenidone: None established
- **General protective and hygienic measures:**
Keep away from foodstuffs and beverages.
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 or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- **Protection of hands:** Caustic resistant gloves.
- **Eye protection:** Tightly sealed goggles.
- **Body protection:** Caustic resistant protective work clothing.

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9 Physical and chemical properties:

- **Physical state:** Liquid
- **Color:** Clear, light yellow
- **Odor:** Odorless
- **Boiling point:** Unknown
- **Flash point:** Not applicable
- **Self ignition temperature:** Not applicable
- **Danger of explosion:** Product does not present an explosion hazard.
- **Vapor pressure** at (20 °C): Unknown
- **Density** at (20 °C): 1.04
- **Solubility in water:** Fully soluble

10 Stability and reactivity

- **Thermal decomposition avoided:** No decomposition
- **Dangerous reactions:** Incompatible with strong acids and oxidizers.
- **Dangerous products of decomposition:** Releases toxic gases if heated to complete evaporation.
- **Avoid boiling of product**

11 Toxicological information

- **Acute toxicity:** Irritant to skin and eyes.
- **Primary irritant effect on the skin and eye:** Irritant
- **Sensitization:** Ingestion or exposure to skin may cause an allergic reaction.

12 Ecological information:

- **General notes:**
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.

13 Disposal considerations

- Do not allow product to reach sewage system.
- Dispose of product (including packagings) in accordance with applicable regulations.

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14 Transportation information

Land (CFR 49), Maritime (IMDG), Air (ICAO)

- **Class:** Not regulated
- **UN Number:** N/A
- **Proper Shipping Name:** N/A
- **Packing Group:** N/A

15 Regulations

- **CERCLA Hazardous Substances (with reportable quantity):** Potassium Hydroxide (1000#), Hydroquinone (100#)
- **Extremely Hazardous Substances (with threshold quantity):** Hydroquinone (100#)
- **Toxic Chemicals (Section 313):** Hydroquinone
- **TSCA Inventory:** All ingredients on TSCA inventory
- **Proposition 65 List:** None
- **Clean Water Act Hazardous Substance List (with reportable quantity):** Potassium Hydroxide (1000#)
- **Clean Air Act Synthetic Organic Chemical (CAA SOCM):** Hydroquinone
- **Clean Air Act Accidental Release Prevention Substance, section 112 r (with threshold quantity):** None
- **PSM Highly Hazardous Chemical List (with threshold quantity):** None
- **Clean Air Act (CAA) Hazardous Air Pollutants:** Hydroquinone (HAP code XOY)

- **Safety phrases:**

Do not breathe fumes.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Wear suitable protective clothing.

In case of accident seek medical advice immediately.

16 Other information:

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.