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# Material Safety Data Sheet

## QUICKLYSER-II (QLS-200A)

Health	Flammability	Reactivity	Contact
2	0	0	1

1 = Slight, 2 = Moderate, 3 = Severe, 4 = Extreme

**1. PRODUCT IDENTIFICATION**

QUICKLYSER-II™ reagent is a lytic reagent for *In Vitro* WBC and HGB analysis using designated Sysmex semi-automated hematology instruments. It is provided in 6 mL brown plastic ampoules.

**2. HAZARDOUS INGREDIENTS**

	Percent	C.A.S. Number	DOT Status
Potassium Cyanide	0.55%	151-50-8	Non-Hazardous

- Toxicity Estimate: Oral rat LD<sub>50</sub> 1.8 g/kg.  
This toxicity is based on the product, not a pure or concentrated compound.  
Toxicity value is extrapolated from toxicology databases, not animal studies.
- OSHA Permissible Exposure Level (PEL): Cyanide 5 mg/m<sup>3</sup> TWA skin.
- Carcinogen Data: No data listed

**3. PHYSICAL DATA**

Clear aqueous solution, easily foamed, slight musty odor. Exact physical properties of this aqueous solution have not been determined, but are expected to approximate water, which is its major component.

**4. FIRE AND EXPLOSION DATA**

Not combustible. Fire conditions may generate poisonous hydrogen cyanide gas and toxic NO<sub>x</sub> fumes.

**5. REACTIVITY DATA**

Stable solution. Avoid acidification of solution that may generate hydrogen cyanide gas.

**6. HEALTH HAZARD DATA**

Moderate "Health" rating is for acute exposure by ingestion, which can be fatal – symptoms include initial flushing, increased heart beat, rapid respiration, headache, dizziness – this proceeds to agitation, combative behavior, stupor, coma, seizures, slow heartbeat, low blood pressure, pulmonary edema, and death. Though no significant vapor occurs under normal conditions, acidification or generation of a mist may be toxic as per ingestion and an irritant to the respiratory tract. Solution may be mild irritant to skin, cyanide may be absorbed through the skin, prolonged or repeated skin exposure may cause rash.

### **HEALTH HAZARD DATA (continued)**

This material is relatively safe when used by laboratory professionals in the instrument system as intended. Small volume per ampoule limits possible exposure. Wear gloves and lab coat in routine use to avoid exposure. Practice good chemical hygiene – avoid touching eyes when handling this reagent, and wash hands after use. To remove top of ampoule, use a sharp scissors, other methods may create a splash – in unusual conditions where a splash is reasonably anticipated, also wear plastic apron and eye protection.

### **Suggested First Aid Procedures**

- o Ingestion: Do not induce emesis. Patient needs immediate professional medical attention (100% Oxygen, antidote administration, gastric lavage, activated charcoal/cathartic). If not breathing, give artificial respiration but avoid self-poisoning. Keep person warm and at rest until medical help arrives. Lilly Cyanide Antidote kits containing multiple antidote materials are available for oral exposures.
- o Inhalation of mist / vapor from acidified solution: Move patient to fresh air. Get medical attention. If not breathing give artificial respiration but avoid self-poisoning. Keep person warm and at rest until medical help arrives.
- o Skin Contact: Remove contaminated clothing. Wash affected area with soap and water. Avoid prolonged exposures; cyanide can be absorbed through the skin.
- o Eye Contact: Wash eyes with water, lifting lower and upper eyelids. Continue rinsing until all trace of irritation is gone. Where irritation persists get medical evaluation.

### **7. SPILLS LEAKS AND DISPOSAL PROCEDURES**

Wear gloves and lab coat. A few drops is the typical spill size, which may be absorbed with a paper wipe moistened with household bleach to decompose the cyanide. For large spills contain and absorb the spill with neutral absorbent material, place in a closed container for disposal. Dispose of waste in accordance with applicable local, state and federal environmental regulations.

### **8. STORAGE AND SPECIAL INFORMATION**

Store separate from acids. Store at 2-8°C away from direct sunlight, to ensure good product performance.

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