



# Material Safety Data Sheet

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## SECTION 1 - MATERIAL IDENTIFICATION

PRODUCT NAME: **YSI 3682 Zobell Solution**

FORMULA: n/ap

Chemical Type: \_\_\_\_\_ Inorganic chloride / cyanide

CAS No. \_\_\_\_\_ n/app

## SECTION 2 - HAZARDOUS / IMPORTANT INGREDIENTS

<u>Chemical</u>	<u>CAS No.</u>	<u>PERCENT</u>	<u>PEL/TLV</u>	<u>CARCINOGEN</u> (OSHA, NTP, IARC)
Potassium chloride	7447-40-7	72 - 78%	none	no
Potassium ferrocyanide, trihydrate	14459-95-1	10 - 15%	none	no
Potassium ferricyanide	13746-66-2	10 - 15%	none	no

## SECTION 3 - CHEMICAL AND PHYSICAL PROPERTIES

Appearance: \_\_\_\_\_ white powder

Boiling Point: \_\_\_\_\_ n/av

Odor: \_\_\_\_\_ none

Melting Point: \_\_\_\_\_ n/av

pH: \_\_\_\_\_ neutral

Specific Gravity: \_\_\_\_\_ n/av

Water Solubility: \_\_\_\_\_ infinite

Vapor Pressure: \_\_\_\_\_ n/ap

Evaporation Rate: \_\_\_\_\_ n/av

Vapor Density: \_\_\_\_\_ n/ap

## SECTION 4 - FIRE AND EXPLOSION HAZARDS

Flash Point: none Explosive Limits: none

Extinguishing Media: n/ap

Special Firefighting Procedures and Hazards: Material is not combustible. May emit toxic fumes when heated, such as NOx, HCN. HCl. Wear protection as described in Section 6.

## SECTION 5 - REACTIVITY INFORMATION

Stable: X Unstable: \_\_\_\_\_ Precautions: none known

Hazardous Polymerization: Occurs: \_\_\_\_\_ Does Not Occur: X

Incompatibility: strong acids and oxidizing agents.

Hazardous Decomposition Products: When heated, possibly NOx, HCN, HCl.

**SECTION 6 - HEALTH HAZARDS / PROTECTIVE MEASURES / FIRST AID**Inhalation:

Possible irritation from dusts. (see CHRONIC below)

Use a NIOSH approved respirator for dusts. Get supplier recommendations. Provide adequate ventilation.

Minimize dusty conditions.

Remove to fresh air and provide artificial respiration if needed.

Skin:

Possible irritation from dusts. (see CHRONIC below)

Wear dust-proof gloves and other body protection as needed. Minimize dusty conditions.

Wash exposed areas with soap and water for 15 minutes. Remove contaminated clothing, and wash before re-using.

Eyes:

Possible irritation from dust.

Wear dust barrier goggles. Eliminate dusty conditions.

Flush with water for 15 minutes.

Ingestion

No effects expected from normal use and minor amounts ingested. Large amounts, over 1 tablespoon, can cause digestive system upset s. (see CHRONIC below)

Reduce dusting. Avoid mouth breathing. Use facemask. Provide adequate ventilation.

Avoid swallowing. Spit out. Drink large amounts of water. Induce vomiting if person is conscious. Otherwise, and if effects persist, get medical attention.

CHRONIC EFFECTS: None reported for this material. "Cyanides" in general are often reported as toxic to humans. Therefore, it is recommended that exposure via skin, inhalation, and ingestion be limited.

IN ALL CASES: GET MEDICAL ATTENTION IF EFFECTS PERSIST.

Most likely routes of entry: skin, eyes, ingestion.

**SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE**

Spills and Leaks: Take up powder in any container and hold for disposal. Flush residual to sewer or ground. Provide personal protection as described in Section 6.

Storage and Handling: Keep containers closed. Discard any material that may be contaminated. Minimize dusting.

Waste Disposal: Is not listed as RCRA hazardous waste at this date. Cyanides are restricted in water disposed to streams and to sewers. Therefore, landfill disposal is indicated; check with local disposal companies.

Empty Containers: Rinse well. Dispose as appropriate for glass and plastic containers.

**SECTION 8 - REGULATORY INFORMATION**

DOT: Not regulated.

SARA Title III, S.313, Form R: Nothing reportable.

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