

## SDS Safety Data Sheet

### Section 1 Substrate Identification / Company / Undertaking

**Name:** SenSafe™ Manganese Check, Strip #2  
**Product code:** 481020-2

#### Company Name:

Industrial Test Systems, Inc.  
1875 Langston Street, Rock Hill, SC 29730 USA  
Phone: (800) 861-9712, (803) 329-9712  
Fax: (803) 329-9743  
eMail: its@sensafe.com

### Section 2 Composition / Information on Ingredients

**Contains:** Sodium Hydroxide, CAS#: 1310-73-2 (about 40mg / strip)  
Potassium Cyanide, CAS#: 151-50-8 (about 40mg / strip)

### Section 3 Hazards Identification

**Main Hazards:** Potassium Cyanide is contained in test strip pad (about 40mg / strip). Do not expose pads to acid/acid fumes. Potassium Cyanide is harmful if swallowed or inhaled.

### Section 4a First Aid: Potential Health Effects

**Skin Contact:** There may be mild irritation at the site of contact.

**Eye Contact:** There may be irritation and redness.

**Ingestion:** There may be soreness and redness of the mouth and throat. There may be difficulty swallowing. Nausea and stomach pain may occur. There may be vomiting.

**Inhalation:** Absorption through the lungs can occur causing symptoms similar to those of ingestion.

### Section 4b First Aid Measures (Action)

**Skin Contact:** Flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing. Call physician.

**Eye Contact:** Flush with copious amounts of water for at least 15 minutes. Call physician.

**Ingestion:** Break an amyl nitrite pearl in cloth and hold lightly under nose for 15 seconds. Repeat every 5 minutes. Administer artificial respiration with 100% oxygen. Transport to hospital immediately.

**Inhalation:** Break an amyl nitrite pearl in cloth and hold lightly under nose for 15 seconds. Repeat 5 times at 15-second intervals. Transport to hospital immediately.

### Section 5 Fire Fighting Measures

**Extinguishing media:** Not applicable since the amount of Cyanide in kit is negligible.

**Exposure hazards:** Not applicable since the amount of Cyanide in kit is negligible.

**Protection of fire-fighters:** Not applicable since the amount of Cyanide in kit is negligible.

### Section 6 Accidental Release Measures

**Environmental precautions:** Do not discharge into drains or rivers.

**Clean-up Techniques:** Sweep up material. Dilute with a large excess of water. Adjust pH with an alkali such as soda ash or sodium bicarbonate. Decontaminate area of spill with a bleach solution.

### Section 7 Handling and Storage

**Handling requirements:** Ensure there is adequate ventilation in the area. Avoid direct contact with the substance with eyes, skin, and clothing. Do not breathe any off-gassing that may occur.

**Storage conditions:** Store in cool, well ventilated area. Keep away from Acid/acid fumes and Combustible materials

**Practices:** Maintain general industrial hygiene practices when using this product.

### Section 8 Exposure Controls / Protective Equipment

**Skin Protection:** Protective clothing.

**Eye Protection:** Safety glasses. Ensure eye wash station is available.

**Engineering measures:** Ensure there is adequate ventilation.

## SDS Continued Safety Data Sheet

### Section 9 Physical and Chemical Properties

**State:** Solid. **Solubility in water:** Soluble. **Odor:** Almond smell.

**Color:** Creamy yellow paper pad affixed to PVC carrier. **pH:** >12

**Melting point/range °C:** N/A **Acid:** Soluble, releases Cyanide gas.

### Section 10 Stability and Reactivity

**Stability:** Stable under normal conditions.

**Conditions to avoid:** Heat, light, moisture.

**Materials to avoid:** Acids.

**Haz. decomp. products:** In combustion emits toxic fumes.

### Section 11 Toxicological Information

**Engineering Measures:** SenSafe™ Manganese Check, Strip #2, Potassium Cyanide, ORAL RAT LD50 10 mg/kg  
SenSafe™ Manganese Check, Strip #2, Sodium Hydroxide ORAL RABBIT LD50 500 mg/kg

**Respiratory protection:** Refer to section 4 of MSDS for routes of exposure and corresponding symptoms.

### Section 12 Ecological Information

**Ecotoxicity:** No ecological information available for this product

### Section 13 Disposal Considerations

**Disposal operations:** Dilute 5 times the sample volume with cold water. Adjust pH with an alkali, such as soda ash or bicarbonate. Open cold-water tap completely, slowly pour the reacted material down the drain. Allow cold water to run for 5 minutes and completely flush the system.

**Strip Disposal:** Dispose of strip as normal trash keeping away from children and animals.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

### Section 14 Transportation Information

**Shipping name:** "Not subject to ADR"

### Section 15 Regulatory Information

**Hazard symbols:** Harmful.

**Risk phrases:**

**R22:** Harmful if swallowed.

**R36/37/38:** Irritating to eyes, respiratory system and skin.

**R31:** Contact with acids liberates toxic gas.

**R52:** Harmful to aquatic organisms.

**Safety phrases:**

**S36/37/39:** Wear suitable protective clothing, gloves and eye / face protection.

**S26:** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**S45:** In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

**S61:** Avoid release to the environment. Refer to special instructions / safety data sheets.

**NOTE:** The regulatory information given above only indicates the principle regulations specifically applicable to the product described in the material safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

### Section 16 Other Information

**Risk phrases used in s.2:** **R22:** Harmful in swallowed.

**R36/37/38:** Irritating to eyes, respiratory system and skin.

**R31:** Contact with acids liberates toxic gas.

**R52:** Harmful to aquatic organisms.

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product

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### Section 9 Physical and Chemical Properties

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**Color:** Creamy yellow paper pad affixed to PVC carrier. **pH:** >12

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**Ecotoxicity:** No ecological information available for this product

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### Section 2 Composition / Information on Ingredients

**Contains:** Sodium Hydroxide, CAS#: 1310-73-2 (about 40mg / strip)  
Potassium Cyanide, CAS#: 151-50-8 (about 40mg / strip)

### Section 3 Hazards Identification

**Main Hazards:** Potassium Cyanide is contained in test strip pad (about 40mg / strip). Do not expose pads to acid/acid fumes. Potassium Cyanide is harmful if swallowed or inhaled.

### Section 4a First Aid: Potential Health Effects

**Skin Contact:** There may be mild irritation at the site of contact.

**Eye Contact:** There may be irritation and redness.

**Ingestion:** There may be soreness and redness of the mouth and throat. There may be difficulty swallowing. Nausea and stomach pain may occur. There may be vomiting.

**Inhalation:** Absorption through the lungs can occur causing symptoms similar to those of ingestion.

### Section 4b First Aid Measures (Action)

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**Ingestion:** Break an amyl nitrite pearl in cloth and hold lightly under nose for 15 seconds. Repeat every 5 minutes. Administer artificial respiration with 100% oxygen. Transport to hospital immediately.

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### Section 5 Fire Fighting Measures

**Extinguishing media:** Not applicable since the amount of Cyanide in kit is negligible.

**Exposure hazards:** Not applicable since the amount of Cyanide in kit is negligible.

**Protection of fire-fighters:** Not applicable since the amount of Cyanide in kit is negligible.

### Section 6 Accidental Release Measures

**Environmental precautions:** Do not discharge into drains or rivers.

**Clean-up Techniques:** Sweep up material. Dilute with a large excess of water. Adjust pH with an alkali such as soda ash or sodium bicarbonate. Decontaminate area of spill with a bleach solution.

### Section 7 Handling and Storage

**Handling requirements:** Ensure there is adequate ventilation in the area. Avoid direct contact with the substance with eyes, skin, and clothing. Do not breathe any off-gassing that may occur.

**Storage conditions:** Store in cool, well ventilated area. Keep away from Acid/acid fumes and Combustible materials

**Practices:** Maintain general industrial hygiene practices when using this product.

### Section 8 Exposure Controls / Protective Equipment

**Skin Protection:** Protective clothing.

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**Ecotoxicity:** No ecological information available for this product

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