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SDS for this Kit

Fast Food Frenzy Kit

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FLINN SCIENTIFIC, INC.
Safety Data Sheet (SDS)

SDS #: 646.00
Revision Date: January 16, 2014

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Potassium Permanganate Solution

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261
CHEMTREC Emergency Phone Number: (800) 424-9300

Signal Word: N/A

Pictograms

SECTION 2 — HAZARDS IDENTIFICATION

This chemical is considered nonhazardous according to GHS classifications for the Hazard Communication Standard. Treat all laboratory chemicals with caution.

Although this material is considered to be nonhazardous, unpredictable reactions among chemicals are always possible. Prudent laboratory practices should be observed.

SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

| Chemical Name | CAS Number | Formula | Formula Weight | Concentration |
|------------------------|------------|-------------------|----------------|---------------|
| Potassium permanganate | 7722-64-7 | KMnO ₄ | 158.04 | 0.2-3% |
| Water | 7732-18-5 | H ₂ O | 18.00 | 99.8% |

SECTION 4 — FIRST AID MEASURES

Call a POISON CENTER or physician if you feel unwell.
If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.
If on skin: Wash with plenty of water.
If swallowed: Rinse mouth. Call a POISON CENTER or physician if you feel unwell.

SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable, noncombustible solution. **NFPA Code:** None established.
In case of fire: Use a dry-class dry chemical fire extinguisher.

SECTION 9 — ACCIDENTAL RELEASE MEASURES

Ventilate area. Contain spill with sand or absorbent material, deposit in sealed bag or container. See Sections 8 and 13 for further information.

SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Inorganic #8. Store with borates, chromates, manganates and permanganates.

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection. Wash hands thoroughly after handling.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Dark, blue-violet liquid. Odorless.

SECTION 10 — STABILITY AND REACTIVITY

Shelf life: Good.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Irritant. ORL-RAT LD₅₀: 1090 mg/kg as potassium permanganate
 Chronic effects: N/A. IH-RAT LC₅₀: N/A.
 Target organs: N/A. SKN-RBT LD₅₀: N/A.

N/A = Not available, not all health aspects of this substance have been fully investigated.

SECTION 12 — ECOLOGICAL INFORMATION

Data not yet available.

SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply before proceeding.
 Flinn Suggested Disposal Method #12a is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping name: Not regulated. Hazard class: N/A. UN number: N/A.

N/A = Not applicable.

SECTION 15 — REGULATORY INFORMATION

Not listed.

SECTION 16 — OTHER INFORMATION

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Consult your copy of the *Flinn Science Catalog/Reference Manual* for additional information about laboratory chemicals.
 Revision Date: January 16, 2014

FLINN SCIENTIFIC, INC.
Safety Data Sheet (SDS)

SDS #: 412.00
 Revision Date: March 25, 2014

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Iodine Solution, Gram

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261
 CHEMTREC Emergency Phone Number: (800) 424-9300 Signal Word: **WARNING**

Pictograms



SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Skin and serious eye damage, corrosion or irritation (Category 2, 2B). Causes skin and eye irritation (H315-H320).

SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

| Component Name | CAS Number | Formula | Purem-Weight | Concentration |
|------------------|------------|------------------|--------------|---------------|
| Iodine | 7553-56-2 | I ₂ | 253.81 | <1% |
| Potassium iodide | 7681-11-0 | KI | 166.01 | <1% |
| Water | 7732-18-5 | H ₂ O | 18.00 | >99% |

SECTION 4 — FIRST AID MEASURES

Call a POISON CENTER or physician if you feel unwell.
If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing (P305-P351-P338). If eye irritation persists: Get medical advice or attention (P337-P313).
If on skin: Wash with plenty of water (P302-P352). If skin irritation occurs: Get medical advice or attention (P332-P313).
If swallowed: Rinse mouth. Call a POISON CENTER or physician if you feel unwell.

SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable, noncombustible solution. NFPA Code: None established.
 In case of fire: Use a tri-class dry chemical fire extinguisher.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Ventilate area. Contain the spill with sand or absorbent material and deposit in a sealed bag or container. See Sections 8 and 13 for further information.

FLINN SCIENTIFIC, INC.
 Safety Data Sheet Iodine Solution, Gram

SDS #: 412.00
 Revision Date: March 25, 2014

SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Inorganic #2. Store with acetates, halides, sulfates, sulfites, thioacetates and phosphates. Store away from heat and direct light.

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264). Will stain skin, clothing, and surfaces.
 Exposure guidelines: (as iodine) Ceiling 0.1 ppm (OSHA); TLV 0.01 ppm (inhalable fraction and vapor) (ACGIH)

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Deep brown liquid. Iodine odor. Biological stain, Gram formulation.

SECTION 10 — STABILITY AND REACTIVITY

Shelf life: Fair to poor. See Section 7 for further information.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Irritant, stomach cramps. ORL-HUM LD₅₀: 2-4 g as iodine
 Chronic effects: N/A. IH-RAT LC₅₀: N/A.
 Target organ: Thyroid. SKN-RBT LD₅₀: N/A.

N/A - Not available, not all health aspects of this substance have been fully investigated.

SECTION 12 — ECOLOGICAL INFORMATION

Data not yet available.

SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply before proceeding.
 Flinn Suggested Disposal Method #12a is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping name: Not regulated. Hazard class: N/A. UN number: N/A.

N/A - Not applicable

SECTION 15 — REGULATORY INFORMATION

Not listed.

SECTION 16 — OTHER INFORMATION

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 Revision Date: March 25, 2014

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FLINN SCIENTIFIC, INC.
Safety Data Sheet (SDS)

SDS #: 121.00
Revision Date: March 21, 2014

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Buret Test Solution

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261
CHEMTREC Emergency Phone Number: (800) 424-9300

Signal Word: DANGER

Pictograms



SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Skin corrosion or irritation (Category 1). Causes severe skin burns and eye damage (H314). Do not breathe mist, vapors or spray (P260).

Hazard class: Corrosive to metals (Category 1). May be corrosive to metals (H290).

SECTION 3 — COMPOSITION INFORMATION ON INGREDIENTS

| Component Name | CAS Number | Formula | Pure Weight % | Concentration |
|---------------------------------|------------|--------------------------------------|---------------|---------------|
| Copper(II) sulfate pentahydrate | 7758-99-8 | CuSO ₄ ·5H ₂ O | 249.69 | 0.2% |
| Sodium hydroxide | 1310-73-2 | NaOH | 39.997 | 30% |
| Water | 7732-18-5 | H ₂ O | 18.00 | 70% |

SECTION 4 — FIRST AID MEASURES

Immediately call a POISON CENTER or physician (P310).
If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing (P304-P340).
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing (P305-P351-P338).
If on skin (or hair): Immediately remove all contaminated clothing. Rinse skin with water (P303+P361-P353).
If swallowed: Rinse mouth. Do NOT induce vomiting (P301+P330+P331).

SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable, noncombustible solution. NFPA Code: None established.
In case of fire: Use a tri-class dry chemical fire extinguisher.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Ventilate area. Contain the spill with sand or absorbent material and deposit in a sealed bag or container. See Sections 8 and 13 for further information.

FLINN SCIENTIFIC, INC.

Safety Data Sheet Buret Test Solution

SDS #: 121.00

Revision Date: March 21, 2014

SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Inorganic #4. Store with hydroxides, oxides, silicates and carbonates. Store in a Flinn Chem-Safe™ bag.

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264).

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Blue liquid. Slight acid odor. pH: basic.
Used to test for proteins.

SECTION 10 — STABILITY AND REACTIVITY

Shelf life: Good, if stored properly.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Corrosive. ORL-RAT LD₅₀: 500 mg/kg (as sodium hydroxide)
Chronic effects: N/A. IRL-RAT LC₅₀: N/A.
Target organs: N/A. SKN-RBT LD₅₀: 30 mg/24H (as sodium hydroxide)

N/A - Not available, not all health aspects of this substance have been fully investigated.

SECTION 12 — ECOLOGICAL INFORMATION

Data not yet available.

SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply before proceeding.
Flinn Suggested Disposal Method #10 is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping name: Not regulated. Hazard class: N/A. UN number: N/A.

N/A - Not applicable

SECTION 15 — REGULATORY INFORMATION

Not listed.

SECTION 16 — OTHER INFORMATION

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