



Safety Data Sheet

1. IDENTIFICATION

Product Identifier: Gram's Stain Kit #3 -- Decolorizer

Product Code(s): J0323D3

Synonyms: Mixture

Recommended Use: For invitro veterinary use only.

Uses Advised Against: Not for use on humans.

Supplier: Jorgensen Laboratories
1450 Van Buren Avenue, Loveland, CO 80538
Phone: (970) 669-2500 or (800) 525-5614 Fax: (970) 663-5042

Emergency Phone Number: U.S. and Canada: (800) 535-5053 International: (352) 323-3500 (INFOTRAC)

2. HAZARDS IDENTIFICATION

Hazard Classifications: Eye Damage/Irritation: Category 2A
Specific Target Organ Toxicity (Single Exposure): Category 3
Flammable Liquids: Category 2

Signal Word: DANGER

Hazard Statements: Causes serious eye irritation.
May cause drowsiness or dizziness.
Highly flammable liquid and vapor.

Pictograms:



Precautionary Statements:

Prevention: Wash thoroughly after handling.
Wear protective gloves, protective clothing, eye protection, and face protection.
Avoid breathing fumes, mists, vapors, or spray.
Use only outdoors or in a well-ventilated area.
Keep away from heat, sparks, open flames, and hot surfaces. – No smoking.
Keep container tightly closed.

Ground container and receiving equipment.
Use explosion-proof electrical, ventilating, lighting and transportation equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.

Response: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
In case of fire, use water spray, dry powder, alcohol resistant foam, or carbon dioxide to extinguish.

Storage: Store in a well-ventilated place. Keep container tightly closed. Keep cool.
Store locked up.

Disposal: Dispose of contents and container in accordance with local, regional, national, and international regulations.

Hazards Not Otherwise Classified: Not applicable.

Toxicity Statement: Not applicable.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

| Component | Common Name / Synonyms | CAS# | Chemical Formula | % by Weight |
|-------------|------------------------|---------|----------------------------------|-------------|
| Isopropanol | Isopropyl Alcohol | 67-63-0 | C ₃ H ₇ OH | 74.9 |
| Acetone | 2-Propanone | 67-64-1 | C ₃ H ₆ O | 25.1 |

Trade Secret Statement: Not applicable.

4. FIRST AID MEASURES

First Aid Procedures:

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. WARNING! It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious, or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician immediately if you feel unwell or are concerned.

Ingestion: Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, keep head low so that vomit does not enter lungs. Never give anything by mouth to an unconscious person. Call a physician or poison control center if symptoms occur.

Skin Contact: Remove contaminated clothing and shoes. Wash skin with plenty of water for at least 15 minutes. Wash clothing before reuse. Get medical attention if symptoms occur.

Eye Contact: Check for and remove contact lenses if present and easy to do. Immediately flush eyes with gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention if symptoms occur.

General Advice: Poison information centers in each state can provide additional assistance for scheduled poisons. Ensure that medical personnel and those providing first aid are aware of the material(s) involved and take precautions to protect themselves.

Symptoms and Effects: May cause irritation, visual disturbances, drowsiness, dizziness, cough, nausea, vomiting, diarrhea, abdominal pain. May affect the skin, liver, kidneys, and central nervous system.

**Immediate Medical Care/
Special Treatment:** If you feel unwell or are concerned, call a physician or poison control center immediately. Treat symptomatically.

5. FIREFIGHTING MEASURES

Suitable Extinguishing Media: Water spray, dry powder, alcohol resistant foam, carbon dioxide.

Unsuitable Extinguishing Media: Do not use a solid (straight) water stream as it may scatter and spread fire.

**Hazardous Combustion
Products:** Carbon oxides.

Specific Hazards: Highly flammable. Vapors may cause flash fire or ignite explosively. Burns vigorously if ignited easily by heat, sparks, or flames. Material may burn with an invisible flame. Sealed containers may explode when heated or involved in fire. Material is sensitive to static discharge. Vapors may travel considerable distance to source of ignition and flash back. Vapor from the solvent may accumulate in container headspace, resulting in flammability hazard.

**Special Protective Equipment/
Precautions for Firefighters:** As in any fire, wear MSHA/NIOSH-approved (or equivalent), self-contained, positive-pressure or pressure-demand breathing apparatus and full protective gear. Use water spray to cool unopened containers. Move containers from fire area if you can do so without risk. Some of these materials, if spilled, may evaporate and leave a flammable residue. In the event of fire and/or explosion, do not breathe fumes.

6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions and
Protective Equipment:** Ventilate area of leak or spill. Isolate hazard area and keep unnecessary and unprotected personnel away from the area of the leak or spill. Keep upwind. Keep out of low areas. Wear appropriate personal protective equipment (see Section 8). Remove all sources of ignition. Pay attention to flashback. Take precautionary measures against static discharge. All equipment used when handling the product must be grounded. Use spark-proof tools and explosion-proof equipment. Avoid contact with eyes, skin, and clothing.

Emergency Procedures: In case of chemical emergency, or if unsure how to address an accidental release, consult a professional (see Section 1).

Methods for Containment: Eliminate all sources of ignition. Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer, basements, or confined areas. Dike the spilled material, where this is possible. Product should not be released to the environment. Contain and recover liquid when possible.

Methods for Cleanup: Absorb spill with an inert material (e.g. vermiculite, dry sand, earth, cloth, or fleece) and place in a non-combustible container for reclamation or disposal. Do not flush to sewer. Clean contaminated surface thoroughly. Never return spills in original containers for reuse. Clean up in accordance with all applicable regulations.

7. HANDLING AND STORAGE

Handling: Do not handle, store, or open near an open flame, sources of heat, or sources of ignition. Wear personal protective equipment (see Section 8). Use only in well-ventilated areas. Provide sufficient air exchange and/or exhaust in work areas. Avoid contact with skin, eyes, and clothing. Do not breathe vapors or spray mist. Do not ingest. When using, do not eat, drink, or smoke. Take precautionary measures against static discharge. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from incompatible materials (see Section 10). Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Containers of this material may be hazardous when empty, as they retain product residues (vapors, liquids). Observe all warnings and precautions listed for this product.

Storage: Store in a cool, dry, ventilated area. Store in a segregated and approved area away from incompatible materials (see Section 10). Store in original container. Keep containers tightly closed and upright. Keep away from food, drink, and animal foodstuffs. Keep out of the reach of children. Ground container and transfer equipment. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of this product.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

| | | | |
|-------------------------|--------------|-------------|-----------------------|
| Exposure Limits: | Isopropanol: | ACGIH: TWA: | 200 ppm |
| | | STEL: | 400 ppm |
| | | BEL: | 40 mg/L |
| | | OSHA: PEL: | 400 ppm |
| | | | 980 mg/m ³ |
| | Acetone: | ACGIH: TWA: | 500 ppm |
| | | STEL: | 750 ppm |
| | | OSHA: TWA: | 1000 ppm |
| | | STEL: | 1000 ppm |

Engineering Controls: Ensure adequate ventilation. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal Protective Measures:

Eye/Face Protection: Wear safety glasses with side shields or goggles and a face shield. Maintain approved eye wash station and accessible rinse facilities in work area.

Skin Protection: Wear appropriate chemical resistant clothing (with long sleeves) and appropriate chemical resistant gloves.

Respiratory Protection: An air-purifying, NIOSH-approved respirator with appropriate cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Use a positive-pressure, air-supplied respirator if there is any potential for an uncontrolled release, if exposure levels are unknown, or in any other circumstances where air-purifying respirators may not provide adequate protection.

Specific Requirements for Personal Protective Equipment: Ensure that glove material is compatible with this product. This information is available from glove manufacturers.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| Appearance: | Colorless, transparent liquid. |
| Odor: | Alcoholic. |
| Odor Threshold: | < 600 ppm |
| Formula Weight: | Mixture. |
| pH: | No information found. |
| Melting/Freezing Point: | - 90 °C (estimate) |
| Boiling Point/Range: | 75 °C (estimate) |
| Decomposition Temperature: | No information found. |
| Flash Point: | < 23 °C |
| Auto-ignition Temperature: | No information found. |
| Flammability: | Explosive as vapor; flammable as liquid. |
| Flammability/Explosive Limits: | Lower: 2% by volume (estimate) Upper: 13% by volume (estimate) |
| Solubility: | Miscible with water, ether, alcohol. |
| Vapor Pressure: | < 180 mmHg at 20 °C |
| Vapor Density: | > 1.0 (Air = 1) |
| Specific Gravity: | 0.79 (Water = 1) |
| Evaporation Rate: | > 1.0 (Butyl Acetate = 1) |
| Viscosity: | No information found. |
| Partition Coefficient (n-octanol/water): | No information found. |

10. STABILITY AND REACTIVITY

| | |
|--|--|
| Reactivity Data: | Highly flammable. See Section 9. |
| Chemical Stability: | Stable under normal conditions. |
| Conditions to Avoid: | Heat, flames, sparks, sources of ignition, incompatible materials. |
| Incompatible Materials: | Oxidizing agents, metals, halogens, bases, acids. |
| Hazardous Decomposition Products: | Carbon oxides. |
| Possibility of Hazardous Reactions: | May react vigorously, violently, or explosively if exposed to extreme thermal conditions or in contact with the incompatible materials listed above. |
| Hazardous Polymerization: | Will not occur. |

11. TOXICOLOGICAL INFORMATION

| | |
|----------------------------|---|
| Routes of Exposure: | Inhalation, ingestion, skin contact, eye contact. |
|----------------------------|---|

Acute Effects: Harmful if swallowed, inhaled, or absorbed through the skin. Causes irritation to the eyes, skin, respiratory tract, and gastrointestinal tract. May cause central nervous system disturbances if absorbed into the blood stream. May affect the liver and kidneys.

Chronic Effects: May cause central nervous system effects. Prolonged or repeated exposure may cause liver and kidney damage. Prolonged or repeated exposure may cause skin inflammation.

Toxicological Data:

| | | |
|--------------|---|---------------|
| Isopropanol: | LD50 Oral, Rat: | 5045 mg/kg |
| | LC50 Inhalation, Rat: | 72.6 mg/L 4 h |
| | LD50 Dermal, Rabbit: | 12,800 mg/kg |
| | Causes eye irritation based on animal data. | |
| Acetone: | LD50 Oral, Rat: | 5800 mg/kg |
| | LC50 Inhalation, Rat: | 71 mg/L 4 h |
| | Causes eye irritation based on animal data. | |

Symptoms of Exposure: Irritation, visual disturbances, drowsiness, dizziness, cough, nausea, vomiting, diarrhea, abdominal pain.

Carcinogenic Effects: This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

ACGIH: Isopropanol: A4 – Not classifiable as a human carcinogen

IARC: Isopropanol: 3 – Not classifiable to humans

12. ECOLOGICAL INFORMATION

Ecotoxicological Data:

| | | |
|--------------|--|-----------------|
| Isopropanol: | LC50 Western Mosquitofish (<i>Gambusia affinis</i>): | >1400 mg/L 96 h |
| | LC50 Fathead Minnow (<i>Pimephales promelas</i>): | 9640 mg/L 96 h |
| Acetone: | EC50 Water Flea (<i>Daphnia magna</i>): | 8800 mg/L 48 h |
| | LC50 Rainbow Trout (<i>Oncorhynchus mykiss</i>): | 5540 mg/L 96 h |

Persistence and Degradability: Expected to be readily biodegradable.

Environmental Effects: May be hazardous to the aquatic environment.

13. DISPOSAL INFORMATION

Disposal Instructions: All wastes must be handled in accordance with local, state, and federal regulations. Minimize exposure to product waste (see Section 8).

Contaminated Packaging: Because emptied containers retain product residue, follow label warnings even after container is emptied. Residual vapors may explode on ignition; do not cut, drill, grind, or weld on or near product container. Offer rinsed packaging material to local recycling facilities.

Waste Codes: Acetone: U002 (US RCRA Hazardous Waste U List)

14. TRANSPORT INFORMATION

DOT:

UN Number: UN1993

Proper Shipping Name: Flammable liquid, n.o.s. (Acetone, Isopropanol)

Hazard Class: 3

Packing Group: II

ERG Number: 128

Environmental Hazard Regulations: No information found.

Other Transport Precautions: Components of this product may be restricted in aircraft and seacraft transport. Ensure transport in accordance with applicable regulations.

15. REGULATORY INFORMATION

U.S. Federal Regulations:

OSHA: This product is considered a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Inventory: All components of this product are on the U.S. TSCA Inventory.

U.S. EPCRA (SARA Title III):

Section 302: No information found.

Sections 311/312:

| Hazard Category | List (Yes/No) |
|----------------------------------|---------------|
| Section 311 – Hazardous Chemical | Yes |
| Immediate Hazard | Yes |
| Delayed Hazard | Yes |
| Fire Hazard | Yes |
| Pressure Hazard | No |
| Reactivity Hazard | No |

Section 313: Isopropanol: De Minimis Concentration: 1.0%

CERCLA Reportable Quantities: Isopropanol: 5000 lb

International Inventories:

| Country or Region | Inventory Name | On Inventory (Yes/No)* |
|-------------------|--|------------------------|
| Australia | Australian Inventory of Chemical Substances (AICS) | N/A |
| Canada | Domestic Substances List (DSL) | N/A |
| Canada | Non-Domestic Substances List (NDSL) | N/A |
| China | Inventory of Existing Chemical Substances in China (IECSC) | N/A |
| Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | N/A |
| Europe | European List of Notified Chemical Substances (ELINCS) | N/A |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | N/A |
| Korea | Existing Chemicals List (ECL) | N/A |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | N/A |

*A "Yes" indicates that the listed component(s) of this product comply with the inventory requirements administered by the governing country(s)

16. OTHER INFORMATION**Disclaimer:**

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Update of Section 2, 8, 11 over 11/15/2014 version.