

Safety Data Sheet

1. IDENTIFICATION

Product Identifier: Sudan III Stain

Product Code(s): N/A

Synonyms: Mixture.

Recommended Use: For manufacturing, industrial, and laboratory use only. Use as laboratory reagent.

Uses Advised Against: Not for food, drug, or household use.

Supplier: Rocky Mountain Reagents, Inc.
4621 Technology Drive, Golden, CO 80403
Phone: (303) 762-0800 Fax: (303) 762-1240

Emergency Phone Number: (800) 255-3924 (CHEM-TEL)

2. HAZARDS IDENTIFICATION

Hazard Classifications:

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|---|-------------|
| Eye Damage/Irritation: | Category 2A |
| Specific Target Organ Toxicity (Single Exposure): | Category 1 |
| Flammable Liquids: | Category 2 |

Signal Word: DANGER

Hazard Statements: Causes serious eye irritation.
Causes damage to organs.
Highly flammable liquid and vapor.

Pictograms:



Precautionary Statements:

Prevention: Wash thoroughly after handling.
Wear protective gloves, protective clothing, eye protection, and face protection.
Do not breathe fumes, mists, vapors, or spray.
Do not eat, drink, or smoke when using this product.
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 exposed: Call a poison center or doctor.
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 locked up.
Store in a well-ventilated place. Keep cool.

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

Hazards Not Otherwise Classified: This product may be toxic to humans. Primates are especially susceptible to the toxic effects of methanol, which are not reflected through toxicity data (see Section 11).
May cause adverse reproductive effects and mutagenic effects based on human and animal data.

Toxicity Statement: This product contains >1% ingredients whose acute toxicities are unknown.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

| Component | Common Name / Synonyms | CAS# | Chemical Formula | % by Weight |
|-------------|------------------------|-----------|--|-------------|
| Acetone | 2-Propanone | 67-64-1 | C ₃ H ₆ O | 50.7 |
| Ethanol | Ethyl Alcohol | 64-17-5 | C ₂ H ₅ OH | 32.1 |
| Water | Water | 7732-18-5 | H ₂ O | 12.6 |
| Isopropanol | Isopropyl Alcohol | 67-63-0 | C ₃ H ₇ OH | 1.77 |
| Methanol | Methyl Alcohol | 67-56-1 | CH ₃ OH | 1.60 |
| Sudan III | Solvent Red 23 | 85-86-9 | C ₂₂ H ₁₆ N ₄ O | 1.28 |

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. Get medical attention immediately if feeling unwell or 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 poison center or physician.

Skin Contact: Remove contaminated clothing and shoes. Wash skin with plenty of water for at least 15 minutes. Wash clothing before reuse. Call a physician 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. Call a physician.

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: Inhalation may cause drowsiness, dizziness, suffocation, and shortness of breath. Ingestion may cause visual disturbances, motor impairment, nausea, vomiting, diarrhea, abdominal pain, and blindness. Skin contact may cause irritation and dryness. Eye contact may cause severe irritation.

**Immediate Medical Care/
Special Treatment:** Get medical attention immediately if feeling unwell or concerned. Treat symptomatically. Symptoms may be delayed.

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, nitrogen 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. This material may evaporate and leave a flammable residue if spilled. 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: Evacuate surrounding personnel as needed. 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 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. Residues from spills can be absorbed with alcohol or acetone. Never return spills in original containers for reuse. Clean up in accordance with all applicable regulations.

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| 7. HANDLING AND STORAGE |
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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. 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.

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| 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION |
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Exposure Limits:

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| Acetone: | ACGIH: TWA: 500 ppm STEL: 750 ppm OSHA: TWA: 750 ppm PEL: 1000 ppm NIOSH: REL: 250 ppm |
| Ethanol: | ACGIH: STEL: 1000 ppm OSHA: PEL: 1000 ppm 1900 mg/m ³ |
| Water | No information found. |
| Isopropanol: | ACGIH: TWA: 200 ppm STEL: 400 ppm BEL: 40 mg/L OSHA: PEL: 400 ppm 980 mg/m ³ |
| Methanol: | ACGIH: TWA: 200 ppm STEL: 250 ppm BEL: 15 mg/L OSHA: PEL: 200 ppm 260 mg/m ³ |
| Sudan III: | No information found. |

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 safety goggles. Wear 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

Unless otherwise indicated, all properties are given at 25 °C and standard pressure.

Appearance: Opaque, red liquid.
Odor: Alcoholic.
Odor Threshold: No information found.
Formula Weight: Mixture.
pH: No information found.
Melting/Freezing Point: -85 °C (estimate)
Boiling Point/Range: 70 °C (estimate)
Decomposition Temperature: No information found.
Flash Point: 1 °C (estimate)
Auto-ignition Temperature: No information found.
Flammability: Explosive as vapor; flammable as liquid.
Flammability/Explosive Limits: No information found.
Solubility: Miscible with water, acetone, alcohol.
Vapor Pressure: < 184 mmHg at 20 °C (estimate)
Vapor Density: No information found.
Specific Gravity: 0.780 (Water = 1)
Evaporation Rate: No information found.
Viscosity: No information found.
Partition Coefficient (n-octanol/water): No information found.

10. STABILITY AND REACTIVITY

Reactivity Data: Highly flammable. See Section 9.

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| Chemical Stability: | Stable under normal conditions. |
| Conditions to Avoid: | Heat, flames, sparks, sources of ignition, incompatible materials. |
| Incompatible Materials: | Oxidizers, metals, halogens, isocyanates, inorganic salts, inorganic hydrides, organic materials, hydrazine, bases, acids, ammonia. |
| Hazardous Decomposition Products: | Carbon oxides, nitrogen 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

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| Routes of Exposure: | Inhalation, ingestion, skin contact, eye contact. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acute Effects: | May be harmful if swallowed, inhaled, or absorbed through the skin. Causes irritation to the eyes, skin, respiratory tract, and gastrointestinal tract. May cause blindness or visual disturbances if absorbed into the blood stream May affect the blood, brain, urinary system, liver, spleen, eyes, kidneys, cardiovascular system, and pancreas. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chronic Effects: | Prolonged or repeated exposure may cause liver, kidney, brain, cardiovascular system, nervous system, blood, spleen, and heart damage; may cause blindness, adverse reproductive effects, mutagenic effects, and dermatitis. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Toxicological Data: | <table> <tr> <td>Acetone:</td> <td>LD₅₀ Oral, Rat:</td> <td>5800 mg/kg</td> </tr> <tr> <td></td> <td>LD₅₀ Dermal, Rabbit:</td> <td>20,000 mg/kg</td> </tr> <tr> <td></td> <td>LC₅₀ Inhalation, Rat:</td> <td>50.1 mg/L 8 h</td> </tr> <tr> <td></td> <td colspan="2">Causes skin and eye irritation based on animal data.</td> </tr> <tr> <td>Ethanol:</td> <td>LD₅₀ Oral, Rat:</td> <td>7060 mg/kg</td> </tr> <tr> <td></td> <td>LC₅₀ Inhalation, Rat:</td> <td>124.7 mg/L 4 h</td> </tr> <tr> <td>Water:</td> <td colspan="2">Not applicable.</td> </tr> <tr> <td>Isopropanol:</td> <td>LD₅₀ Oral, Rat:</td> <td>5045 mg/kg</td> </tr> <tr> <td></td> <td>LD₅₀ Dermal, Rabbit:</td> <td>12,800 mg/kg</td> </tr> <tr> <td></td> <td>LC₅₀ Inhalation, Rat:</td> <td>72.6 mg/L 4 h</td> </tr> <tr> <td>Methanol:</td> <td>LD₅₀ Oral, Rat:</td> <td>5628 mg/kg</td> </tr> <tr> <td></td> <td>LD₅₀ Dermal, Rabbit:</td> <td>15,800 mg/kg</td> </tr> <tr> <td></td> <td>LC₅₀ Inhalation, Rat:</td> <td>87.5 mg/L 6 h</td> </tr> <tr> <td></td> <td colspan="2">Causes</td> </tr> <tr> <td>Sudan III:</td> <td colspan="2">May cause mutagenic effects based on animal data.</td> </tr> </table> | Acetone: | LD ₅₀ Oral, Rat: | 5800 mg/kg | | LD ₅₀ Dermal, Rabbit: | 20,000 mg/kg | | LC ₅₀ Inhalation, Rat: | 50.1 mg/L 8 h | | Causes skin and eye irritation based on animal data. | | Ethanol: | LD ₅₀ Oral, Rat: | 7060 mg/kg | | LC ₅₀ Inhalation, Rat: | 124.7 mg/L 4 h | Water: | Not applicable. | | Isopropanol: | LD ₅₀ Oral, Rat: | 5045 mg/kg | | LD ₅₀ Dermal, Rabbit: | 12,800 mg/kg | | LC ₅₀ Inhalation, Rat: | 72.6 mg/L 4 h | Methanol: | LD ₅₀ Oral, Rat: | 5628 mg/kg | | LD ₅₀ Dermal, Rabbit: | 15,800 mg/kg | | LC ₅₀ Inhalation, Rat: | 87.5 mg/L 6 h | | Causes | | Sudan III: | May cause mutagenic effects based on animal data. | |
| Acetone: | LD ₅₀ Oral, Rat: | 5800 mg/kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | LD ₅₀ Dermal, Rabbit: | 20,000 mg/kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | LC ₅₀ Inhalation, Rat: | 50.1 mg/L 8 h | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Causes skin and eye irritation based on animal data. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethanol: | LD ₅₀ Oral, Rat: | 7060 mg/kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | LC ₅₀ Inhalation, Rat: | 124.7 mg/L 4 h | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Water: | Not applicable. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Isopropanol: | LD ₅₀ Oral, Rat: | 5045 mg/kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | LD ₅₀ Dermal, Rabbit: | 12,800 mg/kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | LC ₅₀ Inhalation, Rat: | 72.6 mg/L 4 h | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Methanol: | LD ₅₀ Oral, Rat: | 5628 mg/kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | LD ₅₀ Dermal, Rabbit: | 15,800 mg/kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | LC ₅₀ Inhalation, Rat: | 87.5 mg/L 6 h | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Causes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sudan III: | May cause mutagenic effects based on animal data. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Symptoms of Exposure: | Irritation, skin dryness, unconsciousness, visual disturbances, metabolic acidosis, drowsiness, dizziness, suffocation, shortness of breath, nervous system effects, cardiovascular effects, cough, nausea, vomiting, diarrhea, abdominal pain, constipation, blindness, and respiration effects. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinogenic Effects: | No component of this product is considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| ACGIH: | Isopropanol: | A4 – Not classifiable as a human carcinogen |
| IARC: | Isopropanol: | Group 3 – Not classifiable as to its carcinogenicity to humans |
| | Sudan III: | Group 3 – Not classifiable as to its carcinogenicity to humans |

12. ECOLOGICAL INFORMATION

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| Ecotoxicological Data: | Acetone: | |
| | LC ₅₀ , Rainbow Trout (<i>Oncorhynchus mykiss</i>): | 5540 mg/L 96 h |
| | LC ₅₀ , Fathead Minnow (<i>Pimephales promelas</i>): | 9640 mg/L 96 h |
| | EC ₅₀ , Water Flea (<i>Daphnia magna</i>): | 12,100 mg/L 48 h |
| | Ethanol: | |
| | EC ₅₀ , Water Flea (<i>Daphnia magna</i>): | 7.7 mg/L 48 h |
| | LC ₅₀ , Fathead Minnow (<i>Pimephales promelas</i>): | > 100 mg/L 96 h |
| | Water: | Not applicable. |
| | Isopropanol: | |
| | LC ₅₀ , Western Mosquitofish (<i>Gambusia affinis</i>): | >1400 mg/L 96 h |
| | Methanol: | |
| | EC ₅₀ , Water Flea (<i>Daphnia magna</i>): | > 10,000 mg/L 48 h |
| | LC ₅₀ , Fathead Minnow (<i>Pimephales promelas</i>): | > 100 mg/L 96 h |
| | Sudan III: | No information found. |
| Persistence and Degradability: | Expected to be readily biodegradable. | |
| Environmental Effects: | May be hazardous to aquatic organisms. Avoid release to the environment. | |

13. DISPOSAL INFORMATION

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| Disposal Instructions: | All wastes must be handled in accordance with local, state, and federal regulations. Minimize exposure to product waste (see Section 8). Do not dispose unused waste down drains or into sewers. |
| 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: | D001: Waste flammable material (with a flash point <140 °F) |

14. TRANSPORT INFORMATION

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| DOT: | |
| UN Number: | UN1993 |
| Proper Shipping Name: | Flammable liquid, n.o.s. (Acetone, Denatured ethanol) |
| Hazard Class: | 3 |

Packing Group: II

ERG Number: 128

Environmental Hazard Regulations: No information found.

Other Transport Precautions: DOT Reportable Quantity: Acetone: 5000 lb

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: Isopropyl Alcohol, Methanol: De Minimis Concentration: 1.0%

CERCLA Reportable Quantities: Methanol: 5000 lb
Acetone: 5000 lb

International Inventories:

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

*A "Yes" indicates that the listed components of this product comply with the inventory requirements administered by the governing country or region.

16. OTHER INFORMATION

Disclaimer: Rocky Mountain Reagents, Inc. provides the information in this Safety Data Sheet in the belief that it is reliable but assumes no responsibility for its completeness or accuracy. The physical properties reported in this SDS are obtained from literature and do not constitute product specifications. Rocky Mountain Reagents, Inc. makes and gives no representations or warranties with respect to the information contained herein or the product to which it refers, whether express, implied, or statutory, including without limitation, warranties of accuracy, completeness, merchantability, non-infringement, performance, safety, suitability, stability, and fitness for a particular purpose. No warranty against infringement of any patent, copyright or trademark is made or implied. This SDS is intended only as a guide to the appropriate handling of the material by a properly trained person. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. Accordingly, Rocky Mountain Reagents, Inc. assumes no liability whatsoever for the use of or reliance upon this information including results obtained, incidental or consequential damages, or lost profits.

Issue Date: August 22, 2016

Reason for Revision: Not applicable.