



Safety Data Sheet

1. IDENTIFICATION

Product Identifier: Insta-Stain™ Fixative

Product Code(s): 11005, 11007

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: Acute Toxicity – Oral: Category 3

Acute Toxicity – Dermal:

Acute Toxicity – Inhalation:

Specific Target Organ Toxicity (Single Exposure):

Flammable Liquids:

Category 1

Category 2

Signal Word: DANGER

Hazard Statements: Toxic if swallowed.

Toxic in contact with skin.

Toxic if inhaled.

Causes damage to organs. Highly flammable liquid and vapor.

ringrily harrimable liquid and vape

Pictograms:



Precautionary Statements:

Prevention: Wash thoroughly after handling.

Do not eat, drink, or smoke when using this product.

Wear protective gloves, protective clothing, eye protection, and face protection.

Do not breathe 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 swallowed: Immediately call a poison center or doctor. Rinse mouth.

If on skin (or hair): Wash with plenty of water. Call a poison center or doctor if you feel unwell. Take off immediately all contaminated clothing and wash it before reuse.

If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison

center or doctor.

If exposed: Call a poison center or doctor.

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 container tightly closed. Keep cool.

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

international regulations.

Hazards Not Otherwise

Classified:

This product is 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.

Toxicity Statement: Not applicable.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Component	Common Name / Synonyms	CAS#	Chemical Formula	% by Weight
Methanol	Methyl Alcohol	67-56-1	CH₃OH	≥ 99.8
Color	Trade Secret	N/A	N/A	<0.01

Trade Secret Statement:

The identifier and concentration of the component "Color" has been withheld under a trade secret. This component is present at a sufficiently low concentration such that it does not affect the hazard classification of this product.

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 poison center or doctor.

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. Immediate medical attention is required. Call a physician or poison

control center immediately.

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 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 to eyes, skin, respiratory tract, and gastrointestinal tract. Absorption

through skin may cause visual disturbances and metabolic acidosis. Inhalation of vapors may cause dizziness, suffocation, nervous system effects, and cardiovascular effects. May affect the blood, brain, urinary system, liver, spleen, and eyes. Ingestion may cause nausea, vomiting, diarrhea, abdominal pain, constipation, nervous system effects, blindness, and respiration effects. May affect the blood, liver, kidneys, cardiovascular system, brain,

pancreas, and eyes.

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, toxic fumes.

Specific Hazards: Highly flammable. Vapors may case flash fire or ignite explosively. Can be ignited easily by

heat, sparks, or flames and burns vigorously. 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. High vapor concentration in air may cause an explosion 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 if spilled 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 discharges. 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 noncombustible 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 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.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits: Color: No information found.

Methanol: ACGIH: TWA: 200 ppm

STEL: 250 ppm BEL: 15 mg/L

OSHA: PEL: 200 ppm

260 mg/m³

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 if any other circumstances exist where air-purifying respirators may not provide adequate protection.

Specific Requirements for Personal Protective

 $Ensure \ that \ glove \ material \ is \ compatible \ with \ this \ product. \ This \ information \ is \ available \ from$

glove manufacturers.

Equipment:

9. PHYSICAL AND CHEMICAL PROPERTIES

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

Appearance: Blue-green, transparent liquid.

Odor: Pungent, alcoholic.

Odor Threshold: 100 ppm
Formula Weight: Mixture.

pH: No information found.

Melting/Freezing Point: -97.8 °C

Boiling Point/Range: 64.7 °C

Decomposition Temperature: No information found.

Flash Point: 9.7 °C

Auto-ignition Temperature: 455 °C

Flammability: Explosive as vapor; flammable as liquid.

Flammability/Explosive Limits: Lower: 6% by volume

Upper: 36% by volume

Solubility: Miscible with water, alcohol, ether, benzene, chloroform.

Vapor Pressure: 97.7 mmHg at 20 °C; 410 mmHg at 50 °C

Vapor Density: 1.11 (Air = 1)

Specific Gravity: 0.791 (Water = 1)

Evaporation Rate: 5.2 (Ether = 1)

Viscosity: No information found.

Partition Coefficient -0.77

(n-octanol/water):

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, reducing agents, acids.

Hazardous Decomposition

Products:

Carbon oxides, toxic fumes.

Product: Insta-Stain™ Fixative Revision Date: 02/13/2017

5/8

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 or fatal if swallowed, inhaled, or absorbed through the skin or eyes. Causes

irritation to the eyes, skin, respiratory tract, and gastrointestinal tract. May cause visual disturbances or blindness if absorbed into the blood stream. May affect the blood, brain, urinary system, liver, spleen, eyes, kidneys, cardiovascular system, and pancreas.

Chronic Effects: May cause central nervous system effects. May cause damage to eyesight. Prolonged or

repeated exposure may cause liver, kidney, brain, cardiovascular system, blood, spleen, and heart damage as well as adverse reproductive effects, birth defects, mutagenic effects,

and dermatitis.

Toxicological Data: Methanol: LD₅₀ Oral, Rat: 5628 mg/kg

 $\begin{array}{lll} \text{LC}_{50} \text{ Inhalation, Rat:} & 87.6 \text{ mg/L 6 h} \\ \text{LD}_{50} \text{ Dermal, Rabbit:} & 15,800 \text{ mg/kg} \\ \text{LDL Oral, Human:} & 143 \text{ mg/kg} \\ \end{array}$

Color: LD₅₀ Oral, Rat: > 2000 mg/kg

May be mutagenic based on microorganism data.

May cause cancer based on animal data.

Symptoms of Exposure: Irritation, 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.

IARC: Color: 3 – Not classifiable for human

12. ECOLOGICAL INFORMATION

Ecotoxicological Data: Methanol: EC₅₀ Water Flea (Daphnia magna): > 10,000 mg/L 48 h

LC₅₀ Fathead Minnow (Pimephales promelas): > 100 mg/L 96 h

Color: No information found.

Persistence and Degradability: Expected to be readily biodegradable.

Bioconcentration Factor: Methanol: 1.0

Environmental Effects: Not expected to be hazardous to the environment. However, the possibility of an

environmental hazard cannot be excluded in the event of unprofessional handling or

disposal.

Partition Coefficient (n-octanol/water): -0.77

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). 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. Offer rinsed packaging material to local recycling facilities. Residual vapors may explode on ignition; do not cut, drill, grind, or weld on or near product container.

Waste Codes: U154 (US RCRA Hazardous Waste U List – Ignitable Waste)

14. TRANSPORT INFORMATION

DOT:

UN Number: UN1230

Proper Shipping Name: Methanol

Hazard Class: 3

Packing Group:

ERG Number: 127

Other Transport Precautions: Reportable Quantity: 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: Methanol

CERCLA Reportable Quantities: Methanol: 5000 lb

Canada WHMIS:

This SDS is prepared in compliance with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS). Therefore, it complies with the 2015 Workplace Hazardous Materials Information System (WHMIS) as well.

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, Jorgensen Laboratories 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: February 13, 2017

Reason for Revision: Not applicable.