

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: May Grunwald Stain Solution

SYNONYMS: None

PRODUCT CODES: ES925

MANUFACTURER: Azer Scientific, Inc.

ADDRESS: 701 Hemlock Rd, Morgantown, PA 19543

CHEMTREC PHONE: 800-424-9300

SUPPORT: 610-524-5810

FAX: 610-901-3046

PRODUCT USE: Laboratory Reagent

PREPARED BY: CB

SECTION 1 NOTES:

SECTION 2: HAZARDS IDENTIFICATION

GHS CLASSIFICATION: Flammable liquid Category 2; Acute Toxicity Oral Category 4, Acute Toxicity Dermal Category 4, Acute Toxicity Inhalation Category 4, Serious eye damage/eye irritation Category 2A, Specific Target Organ Toxicity Category 2



Signal Word: Danger!

Hazard Phrases	
H225	Highly flammable liquid and vapor.
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H371	May cause damage to organs.

Precautionary Phrases	
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P260	Do not breathe fumes/mist/vapors/spray.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P264	Wash hands thoroughly after handling.
P307+P311	IF exposed call a POISON CENTER or doctor/physician.

SECTION 2 NOTES:

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Description: Mixture

***May contain additional non-hazardous proprietary ingredients.**

****May contain additional active ingredients at concentrations <1% w/v**

<u>INGREDIENT:</u>	<u>CAS NO.</u>	<u>% WT</u>
Methanol	67-56-1	<100
May Grunwald stain	unknown	<1

SECTION 3 NOTES:

SECTION 4: FIRST AID MEASURES

EYES: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

SKIN: In case of contact, flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

INGESTION: Call medical doctor or poison control center immediately. Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

INHALATION: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms worsen.

SECTION 4 NOTES:

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABILITY OF THE PRODUCT: Flammable liquid

FLASH POINT: Open cup: 15.85°C (60.5°F)

AUTOIGNITION TEMPERATURE: 464°C (867.2°F)

NFPA HAZARD CLASSIFICATION

HEALTH:2 FLAMMABILITY: 3 REACTIVITY: 0
OTHER:

HMIS HAZARD CLASSIFICATION

HEALTH:2 FLAMMABILITY: 3 REACTIVITY: 0
PROTECTION: G

EXTINGUISHING MEDIA: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

NOT SUITABLE: Do not use water jet.

SPECIAL FIRE FIGHTING PROCEDURES: Flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst with the risk of a subsequent explosion. Run-off to sewer may create fire or explosion hazard.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon expected to be the primary combustion product.

SECTION 5 NOTES: Vapor may cause flash fire. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES:

Small spill and leak: Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container.

Large spill and leak: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

SECTION 6 NOTES:

SECTION 7: HANDLING AND STORAGE

HANDLING: Do not get in eyes, on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated.

STORAGE: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container, protected from direct sunlight. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Store at 15-30°C

SECTION 7 NOTES:

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

ENGINEERING CONTROLS: General mechanical ventilation or laboratory fume hood. Ensure that eyewash stations and quick drench showers are close to the workstation.

RESPIRATORY PROTECTION: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

EYE PROTECTION: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. Recommended: splash goggles

SKIN PROTECTION: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: lab coat

HANDS: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Recommended: Neoprene

ENVIRONMENTAL EXPOSURE CONTROLS: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

WORK HYGIENIC PRACTICES: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

EXPOSURE GUIDELINES:

OSHA Permissible Exposure Limits (PELs):

Reagent	CAS#	OSHA PEL TWA	Note
Methyl Alcohol	67-56-1	200ppm (260 mg/m ³)	Absorbed through skin.

ACGIH Threshold Limit values (TLVs):

Reagent	CAS#	ACGIH PEL TWA	ACGIH STEL	Note
Methyl Alcohol	67-56-1	200ppm (260 mg/m ³)	250ppm (328 mg/m ³)	Absorbed through skin.

SECTION 8 NOTES:
SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Blue
ODOR: Characteristic, alcohol-like
PHYSICAL STATE: liquid
pH AS SUPPLIED: Not available
BOILING POINT: 64.5°C (148.1°F)
MELTING POINT: Not available
FREEZING POINT: -97.8C (-144F)
VAPOR PRESSURE (mmHg): 1.11
VAPOR DENSITY (AIR = 1): Not available
EVAPORATION RATE: 2.1
SOLUBILITY IN WATER: Soluble in water
MOLECULAR WEIGHT: Mixture
VISCOSITY: Not established

SECTION 9 NOTES:
SECTION 10: STABILITY AND REACTIVITY

STABILITY: Product is stable under normal conditions of use.
CONDITIONS TO AVOID (STABILITY): Avoid heat, sparks, flames, and all other sources of ignition.
INCOMPATIBILITY (MATERIAL TO AVOID): Oxidizing agents
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Under normal conditions of storage and use, hazardous decomposition should not occur.
HAZARDOUS POLYMERIZATION: No hazardous polymerization
CONDITIONS TO AVOID (POLYMERIZATION): N/A

SECTION 10 NOTES:
SECTION 11: TOXICOLOGICAL INFORMATION
ACUTE TOXICITY:

Oral: Methyl Alcohol: LD50 (oral, mouse) = 0.4 g/kg, LD50 (oral, rat) = 6.2-13 g/kg LD50 (oral, rabbit) = 14.4 g/kg
 LDLo (Oral, human) 143 mg/kg (Signs and symptoms of dyspnea and GI disturbances such as nausea, vomiting and diarrhea)
 Inhalation: Methyl Alcohol: LC50 (Inhalation, rat) = 128.2 mg/l 4 hrs; LC50 (Inhalation, rat) = 87.6 mg/l 6 hrs
 Dermal LD50: Methyl Alcohol: Rabbit LD50 =17,100 mg/kg
Skin corrosion/irritation: No data available
Eyes: Rabbit: No eye irritation
Respiratory or skin sensitization: Maximization Test - Guinea Pig - Sensitization not displayed in laboratory animals when following OECD Test Guideline 406.
Germ cell mutagenicity: No data available
Carcinogenicity:
 Methyl Alcohol: NIOSH: Not classifiable as a human carcinogen ACGIH: Not classifiable as a human carcinogen
 NTP: Not classifiable as a human carcinogen IARC: Not classifiable as a human carcinogen
Aspiration hazard: no data available

POTENTIAL HEALTH EFFECTS:

EYES: Direct contact with the eyes produces a mild, reversible irritation, assuming treatment is initiated promptly.
SKIN: Cause moderate skin irritation. Can cause dermatitis by de-fatting the skin from prolonged or repeated contact. Methyl alcohol can be absorbed through skin and be toxic.
INGESTION: Methyl Alcohol can be fatal or cause blindness through ingestion. Ingestion may cause gastrointestinal disturbances such as nausea, vomiting and diarrhea. Cannot be made non-poisonous.
INHALATION: Toxic by inhalation. Vapor harmful. Can cause irritation to the respiratory tract.
CHRONIC HEALTH HAZARDS: Effects may be delayed. Prolonged exposure can cause liver, kidney, and heart damage. Long term exposure can cause loss of appetite, weight loss, nervousness, memory loss, mental retardation. Repeated skin exposure may cause defatting of the skin.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

Dermatitis, emphysema, bronchitis and conjunctivitis.

SIGNS AND SYMPTOMS OF EXPOSURE: Central nervous system depression, blindness

ROUTES OF ENTRY: Ingestion, Skin/eye contact, inhalation

TARGET ORGANS: CNS, optic nerve, respiratory system

SECTION 11 NOTES:

SECTION 12: ECOLOGICAL INFORMATION

TOXICITY:

Methyl Alcohol 67-56-1

Acute Fish Toxicity:

LC50 / 96 hours Lepomis macrochirus: 15,400 mg/L / LC50 / 96 hours Fathead minnow: 29,400 mg/L

Toxic to Daphnia and Other Aquatic Invertebrates:

EC50 / 48 h / Water Flea - >10,000.00 mg/L

Toxicity to Aquatic Plants:

EC50 / 96 hours Scenedesmus capricornutum 22,000 mg/L

PERSISTANCE AND DEGRADABILITY: Biodegradation is expected

BIOACCUMULATIVE POTENTIAL: Bioaccumulation is unlikely.

MOBILITY IN SOIL: No data available

PBT and vPvB ASSESSMENT: Not required.

SECTION 12 NOTES:

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Unused product: dispose as a regulated hazardous waste. Spent product or spill clean up-follow all provincial, local, state, and federal regulations.

SECTION 13 NOTES:

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

UN No.	UN1230
Proper Shipping Name	Methanol Solutions
Hazard Class	3
Packing Group	II

IATA

UN No.	UN1230
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Proper Shipping Name Methanol Solutions
Hazard Class 3
Packing Group II

IMDG: UN Number: 1230 Class: 3 Packing group: II EMS-No: F-E, S-E

Canadian TDG: UN No. 1230 Class 3 (6.1) Packing group II

Proper shipping name: Ethanol solutions

EU ADR/RID: UN Number: 1230 Class: 3 Packing group: II

SECTION 15: REGULATORY INFORMATION

United States

HCS Classification: Flammable liquid, Highly toxic material, Target organ effects, Irritating material

U.S. Federal regulations:

TSCA 8(a) IUR: Partial exemption

United States inventory (TSCA 8b): Listed on inventory.

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: Methanol

SARA 311/312 MSDS distribution - chemical inventory - hazard identification:

Methanol: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard

SARA 313 Form R - Reporting:

Product name	CAS number	Concentration
Requirements:	Methanol	67-56-1 99 - 100
Supplier notification:	Methanol	67-56-1 99 - 100

CERCLA: Methyl Alcohol: RQ 5000 lb.

DEA List I & II Chemicals

(Precursor Chemicals): Not Listed

RTK STATES: Methyl Alcohol CAS 67-56-1: MA, NJ, PA, RI, NY, FL

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. METHANOL CAS-No. 67-56-1

CANADA

WHMIS (Canada): Class B-2: Flammable liquid
 Class D-1A: Material causing immediate and serious toxic effects (Toxic).
 Class D-2B: Material causing other toxic effects (Toxic).

Canadian lists:

CEPA Toxic substances: The following components are listed: Volatile Organic compounds

Canadian ARET: None of the components are listed.

Canadian NPRI: The following components are listed: Methanol
 Volatile organic compounds

CEPA DSL / CEPA NDSL:

All components are listed or exempted.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

SECTION 16: OTHER INFORMATION

National Fire Protection Association (U.S.A.)



DISCLAIMER: This Safety Data Sheet has been prepared in accordance with the Globally Harmonized System for the Classification and Labelling of Chemicals (GHS). To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries makes any warranty of merchantability or any other warranty, expressed or implied, which respect to such information, and we assume no liability resulting from its use. In no event shall Azer Scientific be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages resulting from use of or reliance upon this information.

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