

MSDS**Material Safety Data****JorVel™****Jorgensen Laboratories, Inc.**1450 North Van Buren Avenue
Loveland, CO 80538**Dip Quick Stain Set**Product Codes: J322 & J322A
Effective Date: January 1, 2006
24 Hour Emergency Telephone:
CMB: (800)535-5053

All non-emergency questions may be directed to customer service @ (970)669-2500 or fax (970)663-5042

HAZARDOUS IDENTIFICATION**Dip Quick Stain Set Solution 1, Fixative**

Hazardous Ingredient: Methanol, 100%

Synonyms: methyl alcohol, wood alcohol, carbinol

CAS #: 67-56-1

Molecular Weight: 32.04

Chemical Formula: CH₃OH**Dip Quick Stain Set Solutions 2, Eosin & 3, Thiazine**

Hazardous Ingredient: Sodium Azide, 0.01%

Synonyms: azide, azium, smite

CAS #: 26628-22-8

Molecular Weight: 65.02

Chemical Formula: NaN₃**EMERGENCY OVERVIEW****Dip Quick Stain Set Solution 1, Fixative (Methanol):**

POISON! DANGER! VAPOR HARMFUL! MAY BE FATAL OR CAUSE BLINDNESS IF SWALLOWED. HARMFUL IF INHALED OR ABSORBED THROUGH SKIN. CANNOT BE MADE NONPOISONOUS. FLAMMABLE LIQUID AND VAPOR. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. AFFECTS CENTRAL NERVOUS SYSTEM AND LIVER.

SAFETY RATINGS:

Health: 3, Severe (Poison)

Reactivity: 1, Slight

Flammability: 4, Extreme (Flammable)

Contact: 1, Slight

Protective Equipment:

Safety Glasses, Lab Coat or Apron, Gloves, Local or General Exhaust Ventilation.

Storage Code:

Red: Flammable Hazard.

Dip Quick Stain Set Solutions 2, Eosin & 3, Thiazine:

HARMFUL IF SWALLOWED! As part of good industrial hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing. May stain skin and clothing. **WARNING!** These solutions contain sodium azide. Sodium azide may react with lead and copper plumbing to form highly explosive metal azides. If discarded into sink, flush with a large volume of water to prevent azide buildup.

SAFETY RATINGS:

Health: 1, Slight

Reactivity: 0, None

Flammability: 0, None

Contact: 1, Slight

Protective Equipment:

Safety Glasses, Lab Coat or Apron, Gloves.

Storage Code:

Green: Minimal Hazard.

POTENTIAL HEALTH EFFECTS**Dip Quick Stain Set Solution 1, Fixative (Methanol):****INHALATION:**

A slight irritant to the mucous membranes. Toxic effects exerted upon nervous system, particularly the optic nerve. Once absorbed into the body, it is very slowly eliminated. Symptoms of overexposure may include headache, drowsiness, nausea, vomiting, blurred vision, blindness, coma, and death.

INGESTION:

Toxic! Symptoms parallel inhalation. Can intoxicate and cause blindness. Usual fatal dose: 100 - 125 milliliters.

SKIN CONTACT:

Methyl Alcohol is a defatting agent and may cause skin to become dry and cracked. Skin absorption can occur, symptoms may parallel inhalation exposure.

EYE CONTACT:

Irritant. Continued exposure may cause eye lesions.

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CHRONIC EXPOSURE:

Marked impairment of vision and enlargement of the liver have been reported. Repeated or prolonged exposure may cause skin irritation.

AGGRAVATION of PRE-EXISTING CONDITIONS:

Persons with pre-existing skin disorders or eye problems or impaired liver or kidney function may be more susceptible to the effects of the substance.

Dip Quick Stain Set Solutions 2, Eosin & 3, Thiazine:

INHALATION:

No known effects.

INGESTION:

May be harmful. May cause nausea, vomiting, headache and diarrhea

SKIN CONTACT:

May cause irritation

EYE CONTACT:

May cause irritation

CHRONIC EXPOSURE:

No information available.

AGGRAVATION of PRE-EXISTING CONDITIONS:

No information available.

FIRST AID MEASURES

Dip Quick Stain Set Solution 1, Fixative (Methanol):

INHALATION:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

INGESTION:

Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

SKIN CONTACT:

Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Get medical advice if irritation develops.

EYE CONTACT:

Immediately flush eyes with gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

Dip Quick Stain Set Solutions 2, Eosin & 3, Thiazine:

INHALATION:

Remove to fresh air if effects occur.

INGESTION:

Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

SKIN CONTACT:

Wash with mild soap and water. Get medical advice if irritation develops.

EYE CONTACT:

Immediately flush eyes with gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical advice if irritation develops.

FIRE FIGHTING MEASURES

(Methanol)

FIRE:

Flash Point: 11°C (52°F) CC.

Autoignition Temperature: 464°C (867°F).

Flammable Limits in Air % by Volume: lel: 6.0; uel: 36.

Flammable Liquid & Vapor

EXPLOSION:

Above flash point, vapor-air mixtures are explosive within flammable limits noted above. Moderate explosion hazard and dangerous fire hazard when exposed to heat, sparks or flames. Sensitive to static discharge.

FIRE EXTINGUISHING MEDIA:

Use alcohol foam, dry chemical or carbon dioxide. Water may be ineffective.

SPECIAL INFORMATION:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode. Vapors can flow along surfaces to distant ignition source and flash back.

NFPA RATINGS:

Health: 1

Flammability: 3

Reactivity: 0

ACCIDENTAL RELEASE MEASURES

Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment as specified in the Personal Protection Section. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e.g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials such as saw dust. Do not flush to sewer! US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. Reportable Quantity (RQ) for Methyl Alcohol is 5000 pounds.

HANDLING AND STORAGE

Store in a cool, dry, ventilated area away from flame, sources of ignition and heat. Keep containers tightly closed and upright. Protect from physical damage. Keep out of direct sunlight and separate from incompatible materials. Storage and use areas should be non-smoking.

PERSONAL PROTECTION**Dip Quick Stain Set Solution 1, Fixative (Methanol):****AIRBORNE EXPOSURE LIMITS:**

OSHA; Permissible Exposure Limit (PEL):	200 ppm (TWA).
ACGIH; Threshold Limit Value (TLV):	200 ppm (TWA).
	200 ppm (STEL) skin.

VENTILATION SYSTEM:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

PERSONAL RESPIRATORS (NIOSH) APPROVED:

If the exposure limit is exceeded, a full face piece respirator, air lined hood or full-face piece self-contained breathing apparatus. This substance has poor warning properties.

SKIN PROTECTION:

Wear protective clothing, gloves, lab coat or apron, as appropriate, to prevent skin contact.

EYE PROTECTION:

Use chemical safety glasses or goggles. Maintain eye wash fountain in work area.

PHYSICAL AND CHEMICAL PROPERTIES**(Methanol)**

APPEARANCE:	Clear Colorless Liquid.
ODOR:	Characteristic odor.
SOLUBILITY:	Miscible with water.
SPECIFIC GRAVITY:	0.800.
pH:	No information found
% VOLATILES by VOLUME:	100% @ 21°C (70°F).
BOILING POINT:	65°C (147°F).
MELTING POINT:	-98°C (-144°F).
VAPOR DENSITY (Air =1):	1.1
VAPOR PRESSURE (mm Hg):	97 @ 20°C (68°F).
EVAPORATION RATE (BuAc=1):	5.9.

STABILITY AND REACTIVITY**(Methanol)****STABILITY:**

Stable under ordinary conditions of use and storage

HAZARDOUS DECOMPOSITION PRODUCTS:

May form carbon dioxide, carbon monoxide, and formaldehyde when heated to decomposition

HAZARDOUS POLYMERIZATION:

Will not occur

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INCOMPATIBILITIES:

Strong oxidizing agents such as nitrated, perchlorates or sulfuric acid. Will attack some forms of plastics, rubber, and coatings. May react with metallic aluminum and generate hydrogen gas.

CONDITIONS to AVOID:

Heat, flames, ignition sources and incompatibles

TOXICOLOGICAL INFORMATION

(Methanol)

TOXICOLOGICAL DATA:

Oral rat LD50: 5628 mg/kg; Inhalation rat LC50: 64000 ppm/4H; Skin rabbit LD50: 15800 mg/kg. Irritation data: Standard Draize Test, Skin rabbit: 20 mg/24hr., moderate; Eye rabbit: 100 mg/24hr., moderate. Investigated as a mutagen, reproductive effector

ECOLOGICAL INFORMATION

(Methanol)

When released into the soil, this material may leach into ground water; it is expected to readily biodegrade and quickly evaporates. When released into water, this material is expected to have a half-life between 1 - 10 days. When released into the air, this material is expected to be readily degraded by reaction with photo chemically produced hydroxyl radicals; it is expected to have a half-life between 10 and 30 days. This material is expected to be readily removed from the atmosphere by wet deposition.

ENVIRONMENTAL TOXICITY:

This material is expected to be slightly toxic to aquatic life.

DISPOSAL INFORMATION

Dispose of container and unused contents in accordance with federal, state and local requirements. State and local disposal regulation may differ from federal disposal regulations.

OTHER INFORMATION

Dip Quick Stain Set Solution 1, Fixative (Methanol):

TRANSPORT (Land, DOT):

Methanol, 3, UN1230, II

Dip Quick Stain Set Solutions 2, Eosin & 3, Thiazine:

TRANSPORT (Land, DOT):

Not regulated.

PRODUCT USE:

Laboratory Reagent

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