

## SAFETY DATA SHEETS

**This SDS packet was issued with item:**

078024422

N/A

**MSDS****Material Safety Data****JorVel™****Jorgensen Laboratories, Inc.**1450 North Van Buren Avenue  
Loveland, CO 80538**Dip Quick Stain Set**

Product Codes: J322 &amp; J322A

Effective Date: **SEP 15 2009**

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: CH<sub>3</sub>OH**Dip Quick Stain Set Solutions 2, Eosin & 3, Thiazine**

Hazardous Ingredient: Sodium Azide, 0.01%

Synonyms: azide, azlum, snite

CAS #: 26628-22-8

Molecular Weight: 65.02

Chemical Formula: NaN<sub>3</sub>**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.

## Dip Quick Stain Set MSDS

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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

## Dip Quick Stain Set MSDS

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### **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

## **Dip Quick Stain Set MSDS**

Product #: J322 & J322A

### **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: 5626 mg/kg; Inhalation rat LC50: 64000 ppm/4H; Skin rabbit LD50: 16800 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:**

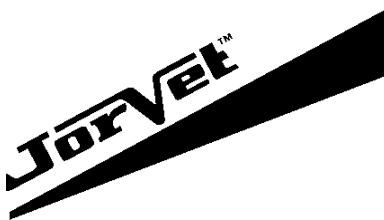
#### **TRANSPORT (Land, DOT):**

Not regulated.

### **PRODUCT USE:**

Laboratory Reagent

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**SDS**

## Safety Data Sheet

### 1. IDENTIFICATION

**Product Identifier:** DipQuick Stain #1 – Fixative

**Product Code(s):** J03221, J0322A1

**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:**

Acute Toxicity – Oral:	Category 3
Acute Toxicity – Dermal:	Category 3
Acute Toxicity – Inhalation:	Category 3
Specific Target Organ Toxicity (Single Exposure):	Category 1
Flammable Liquids:	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.

**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
Methyl Alcohol	Methanol	67-56-1	CH <sub>3</sub> OH	≥ 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.

<b>Skin Contact:</b>	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.
<b>Eye Contact:</b>	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.
<b>General Advice:</b>	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.
<b>Symptoms and Effects:</b>	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.
<b>Immediate Medical Care/ Special Treatment:</b>	If you feel unwell or are concerned, call a physician or poison control center immediately. Treat symptomatically.

## 5. FIREFIGHTING MEASURES

<b>Suitable Extinguishing Media:</b>	Water spray, dry powder, alcohol resistant foam, carbon dioxide.
<b>Unsuitable Extinguishing Media:</b>	Do not use a solid (straight) water stream, as it may scatter and spread fire.
<b>Hazardous Combustion Products:</b>	Carbon oxides, toxic fumes.
<b>Specific Hazards:</b>	Highly flammable. Vapors may cause 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.
<b>Special Protective Equipment/ Precautions for Firefighters:</b>	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

<b>Personal Precautions and Protective Equipment:</b>	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.
<b>Emergency Procedures:</b>	In case of chemical emergency, or if unsure how to address an accidental release, consult a professional (see Section 1).



<b>Methods for Containment:</b>	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.
<b>Methods for Cleanup:</b>	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

<b>Handling:</b>	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.
<b>Storage:</b>	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

<b>Exposure Limits:</b>	Color:	No information found.		
	Methanol:	ACGIH:	TWA:	200 ppm
			STEL:	250 ppm
			BEL:	15 mg/L
		OSHA:	PEL:	200 ppm
				260 mg/m <sup>3</sup>
<b>Engineering Controls:</b>	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.			
<b>Personal Protective Measures:</b>				
<b>Eye/Face Protection:</b>	Wear safety glasses with side shields or goggles and a face shield. Maintain approved eye wash station and accessible rinse facilities in work area.			
<b>Skin Protection:</b>	Wear appropriate chemical resistant clothing (with long sleeves) and appropriate chemical resistant gloves.			
<b>Respiratory Protection:</b>	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  
Equipment:**

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

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Blue-green, transparent liquid.
<b>Odor:</b>	Pungent, alcoholic.
<b>Odor Threshold:</b>	100 ppm
<b>Formula Weight:</b>	Mixture.
<b>pH:</b>	No information found.
<b>Melting/Freezing Point:</b>	-97.8 °C
<b>Boiling Point/Range:</b>	64.7 °C
<b>Decomposition Temperature:</b>	No information found.
<b>Flash Point:</b>	9.7 °C
<b>Auto-ignition Temperature:</b>	455 °C
<b>Flammability:</b>	Explosive as vapor; flammable as liquid.
<b>Flammability/Explosive Limits:</b>	Lower: 6% by volume Upper: 36% by volume
<b>Solubility:</b>	Miscible with water, alcohol, ether, benzene, chloroform.
<b>Vapor Pressure:</b>	97.7 mmHg at 20 °C; 410 mmHg at 50 °C
<b>Vapor Density:</b>	1.11 (Air = 1)
<b>Specific Gravity:</b>	0.791 (Water = 1)
<b>Evaporation Rate:</b>	5.2 (Ether = 1)
<b>Viscosity:</b>	No information found.
<b>Partition Coefficient (n-octanol/water):</b>	-0.77

## 10. STABILITY AND REACTIVITY

<b>Reactivity Data:</b>	Highly flammable. See Section 9.
<b>Chemical Stability:</b>	Stable under normal conditions.
<b>Conditions to Avoid:</b>	Heat, flames, sparks, sources of ignition, incompatible materials.
<b>Incompatible Materials:</b>	Oxidizing agents, metals, reducing agents, acids.
<b>Hazardous Decomposition Products:</b>	Carbon oxides, toxic fumes.

<b>Possibility of Hazardous Reactions:</b>	May react vigorously, violently, or explosively if exposed to extreme thermal conditions or in contact with the incompatible materials listed above.
<b>Hazardous Polymerization:</b>	Will not occur.

## 11. TOXICOLOGICAL INFORMATION

<b>Routes of Exposure:</b>	Inhalation, ingestion, skin contact, eye contact.		
<b>Acute Effects:</b>	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.		
<b>Chronic Effects:</b>	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.		
<b>Toxicological Data:</b>	Color:	LD50 Oral, Rat:	> 2000 mg/kg May be mutagenic based on microorganism data. May cause cancer based on animal data.
	Methanol:	LD50 Oral, Rat:	5628 mg/kg
		LC50 Inhalation, Rat:	87.6 mg/L 6 h
		LD50 Dermal, Rabbit:	15,800 mg/kg
		LDL Oral, Human:	143 mg/kg
<b>Symptoms of Exposure:</b>	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.		
<b>Carcinogenic Effects:</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.		
<b>IARC:</b>	Color:	3 – Not classifiable for human	

## 12. ECOLOGICAL INFORMATION

Ecotoxicological Data:	Color:	No information found.		
	Methanol:	EC50 Water Flea (Daphnia magna):		> 10,000 mg/L 48 h
		LC50 Fathead Minnow (Pimephales promelas):		> 100 mg/L 96 h
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:** II

**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

**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:**

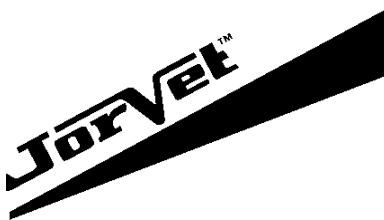
Jorgensen Laboratories provides the information in this Safety Data Sheet in the belief that it is reliable but assumes no responsibility for its completeness or accuracy. The physical properties reported in this SDS are obtained from literature and do not constitute product specifications. Jorgensen Laboratories 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:**

March 2, 2015

**Reason for Revision:**

Update of Section 2, 11 over 02/18/15 version.

**SDS**

## Safety Data Sheet

### 1. IDENTIFICATION

**Product Identifier:** DipQuick Stain #2 – Stain Solution

**Product Code(s):** J03222, J0322A2

**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:** This product is classified as not hazardous under OSHA's Hazard Communication Standard, 29 CFR 1910.1200 (HCS) and the United Nations' Globally Harmonized System of Classification and Labeling of Chemicals (GHS). However, all chemicals handled and used in the workplace should be treated with caution.

**Signal Word:** Not applicable.

**Hazard Statements:** Not applicable.

**Pictograms:** Not applicable.

**Precautionary Statements:**

**Prevention:** Not applicable.

**Response:** Not applicable.

**Storage:** Not applicable.

**Disposal:** Flush with large volumes of water to prevent azide buildup.

**Hazards Not Otherwise Classified:** Contains 0.01% Sodium Azide which may react with lead and copper plumbing to form explosive metal azides.

**Toxicity Statement:** Not applicable.

### 3. COMPOSITION AND INFORMATION ON INGREDIENTS

Component	Common Name / Synonyms	CAS#	Chemical Formula	% by Weight
Water	Water	7732-18-5	H <sub>2</sub> O	98.9
Sodium Azide	Hydrozoic Acid, Sodium Salt	26628-22-8	NaN <sub>3</sub>	0.01
Nonhazardous ingredients	Trade Secret	N/A	N/A	<1.1

**Trade Secret Statement:** The identifiers and concentrations of the “nonhazardous ingredients” have been withheld under a trade secret. These components are either nonhazardous or are present at sufficiently low concentrations such that they do 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. 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:** 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. Ingestion may cause nausea, vomiting, diarrhea, abdominal pain, and nervous system effects.

**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, nitrogen oxides, sodium oxides, potassium oxides, phosphorus compounds, toxic fumes.

**Specific Hazards:** Excessive thermal conditions may cause decomposition and yield hazardous decomposition products listed above.

**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. In the event of fire and/or explosion, do not breathe fumes.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions and Protective Equipment:</b>	Isolate hazard area and keep unnecessary and unprotected personnel away from the area of the leak or spill. Wear appropriate personal protective equipment (see Section 8). Avoid contact with eyes, skin, and clothing.
<b>Emergency Procedures:</b>	In case of chemical emergency, or if unsure how to address an accidental release, consult a professional (see Section 1).
<b>Methods for Containment:</b>	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.
<b>Methods for Cleanup:</b>	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. Spills can be dissolved with alcohol or acetone solution. Never return spills in original containers for reuse. Clean up in accordance with all applicable regulations.

## 7. HANDLING AND STORAGE

<b>Handling:</b>	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. 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.
<b>Storage:</b>	Store in a cool, dry, ventilated area. Limit exposure to light. 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. 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:	Water:	No information found.	
	Nonhazardous Ingredients:	No information found.	
	Sodium Azide:	ACGIH: TLV:	0.29 mg/m <sup>3</sup>
		OSHA: PEL:	0.1 ppm
		NIOSH: CEIL:	0.3 mg/m <sup>3</sup>
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 if any other circumstances exist 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

<b>Appearance:</b>	Red, opaque liquid.
<b>Odor:</b>	Not applicable.
<b>Odor Threshold:</b>	No information found.
<b>Formula Weight:</b>	Mixture.
<b>pH:</b>	6.7
<b>Melting/Freezing Point:</b>	< 0 °C
<b>Boiling Point/Range:</b>	> 100 °C
<b>Decomposition Temperature:</b>	No information found.
<b>Flash Point:</b>	Not applicable.
<b>Auto-ignition Temperature:</b>	Not applicable.
<b>Flammability:</b>	Not flammable or explosive.
<b>Flammability/Explosive Limits:</b>	Not applicable.
<b>Solubility:</b>	Miscible with water.
<b>Vapor Pressure:</b>	No information found.
<b>Vapor Density:</b>	No information found.
<b>Specific Gravity:</b>	1.01 (Water = 1)
<b>Evaporation Rate:</b>	No information found.
<b>Viscosity:</b>	No information found.
<b>Partition Coefficient (n-octanol/water):</b>	No information found.

## 10. STABILITY AND REACTIVITY

<b>Reactivity Data:</b>	No information found.
<b>Chemical Stability:</b>	Stable under normal conditions. Sensitive to air.
<b>Conditions to Avoid:</b>	Heat, incompatible materials.
<b>Incompatible Materials:</b>	Oxidizing agents, acids, bases.
<b>Hazardous Decomposition Products:</b>	Carbon oxides, nitrogen oxides, sodium oxides, potassium oxides, phosphorus compounds, toxic fumes.

**Possibility of Hazardous Reactions:** May react vigorously or violently if exposed to extreme thermal conditions or if contacted 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:** May be harmful if swallowed. May cause irritation to the eyes, skin, respiratory tract, and gastrointestinal tract. May affect the nervous system.

**Chronic Effects:** Prolonged or repeated exposure may affect the liver, kidneys, cardiovascular system, and nervous system. May cause mutagenic effects.

**Toxicological Data:**

Water:	No information found.
Nonhazardous Ingredients:	No information found.
Sodium Azide:	LD50 Oral, Mouse: 27 mg/kg LD50 Dermal, Rabbit: 20 mg/kg May be mutagenic based on animal data.

**Symptoms of Exposure:** Irritation, nausea, vomiting, diarrhea, abdominal pain, nervous system effects.

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

## 12. ECOLOGICAL INFORMATION

**Ecotoxicological Data:**

Water:	No information found.
Nonhazardous Ingredients:	No information found.
Sodium Azide:	No information found.

**Persistence and Degradability:** May not be readily biodegradable.

**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.

## 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. Offer rinsed packaging material to local recycling facilities.

**Waste Codes:** No information found.

## 14. TRANSPORT INFORMATION

**DOT:** Not regulated.

**Other Transport Precautions:** No information found.

## 15. REGULATORY INFORMATION

### U.S. Federal Regulations:

**OSHA:** This product is not 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:** Extremely hazardous substance: Sodium Azide

#### Sections 311/312:

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

**Section 313:** Sodium Azide

**CERCLA Reportable Quantities:** Sodium Azide: 1000 lbs

### 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:**

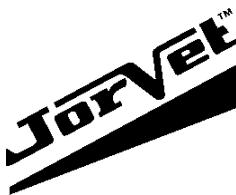
Jorgensen Laboratories provides the information in this Safety Data Sheet in the belief that it is reliable but assumes no responsibility for its completeness or accuracy. The physical properties reported in this SDS are obtained from literature and do not constitute product specifications. Jorgensen Laboratories 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:**

October 15, 2014

**Reason for Revision:**

Not applicable.

**SDS**

## Safety Data Sheet

### 1. IDENTIFICATION

**Product Identifier:** DipQuick Stain #3 – Counter Stain

**Product Code(s):** J03223, J0322A3

**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:** This product is classified as not hazardous under OSHA's Hazard Communication Standard, 29 CFR 1910.1200 (HCS) and the United Nations' Globally Harmonized System of Classification and Labeling of Chemicals (GHS). However, all chemicals handled and used in the workplace should be treated with caution.

**Signal Word:** Not applicable.

**Hazard Statements:** Not applicable.

**Pictograms:** Not applicable.

**Precautionary Statements:**

**Prevention:** Not applicable.

**Response:** Not applicable.

**Storage:** Not applicable.

**Disposal:** Flush with large volumes of water to prevent azide buildup.

**Hazards Not Otherwise Classified:** Contains 0.01% Sodium Azide which may react with lead and copper plumbing to form explosive metal azides.

**Toxicity Statement:** Not applicable.

### 3. COMPOSITION AND INFORMATION ON INGREDIENTS

Component	Common Name / Synonyms	CAS#	Chemical Formula	% by Weight
Water	Water	7732-18-5	H <sub>2</sub> O	98.9
Sodium Azide	Hydrozoic Acid, Sodium Salt	26628-22-8	NaN <sub>3</sub>	0.01
Nonhazardous Ingredients	Trade Secret	N/A	N/A	<1.1

**Trade Secret Statement:** The identifiers and concentrations of the “nonhazardous ingredients” have been withheld under a trade secret. These components are either nonhazardous or are present at sufficiently low concentrations such that they do 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. 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:** 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. Ingestion may cause nausea, vomiting, diarrhea, abdominal pain, and nervous system effects.

**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, nitrogen oxides, sodium oxides, potassium oxides, phosphorus compounds, toxic fumes.

**Specific Hazards:** Excessive thermal conditions may cause decomposition and yield hazardous decomposition products listed above.

**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. In the event of fire and/or explosion, do not breathe fumes.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions and Protective Equipment:

Isolate hazard area and keep unnecessary and unprotected personnel away from the area of the leak or spill. Wear appropriate personal protective equipment (see Section 8). 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:

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. Spills can be dissolved with alcohol or acetone solution. Never return spills in original containers for reuse. Clean up in accordance with all applicable regulations.

## 7. HANDLING AND STORAGE

### Handling:

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. 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. Limit exposure to light. 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. 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:

Water: No information found.

Nonhazardous Ingredients: No information found.

Sodium Azide: ACGIH: TLV: 0.29 mg/m<sup>3</sup>  
OSHA: PEL: 0.1 ppm  
NIOSH: CEIL: 0.3 mg/m<sup>3</sup>

### 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 if any other circumstances exist 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

<b>Appearance:</b>	Blue, opaque liquid.
<b>Odor:</b>	Not applicable.
<b>Odor Threshold:</b>	No information found.
<b>Formula Weight:</b>	Mixture.
<b>pH:</b>	6.8
<b>Melting/Freezing Point:</b>	< 0 °C
<b>Boiling Point/Range:</b>	> 100 °C
<b>Decomposition Temperature:</b>	No information found.
<b>Flash Point:</b>	Not applicable.
<b>Auto-ignition Temperature:</b>	Not applicable.
<b>Flammability:</b>	Not flammable or explosive.
<b>Flammability/Explosive Limits:</b>	Not applicable.
<b>Solubility:</b>	Miscible with water.
<b>Vapor Pressure:</b>	No information found.
<b>Vapor Density:</b>	No information found.
<b>Specific Gravity:</b>	1.01 (Water = 1)
<b>Evaporation Rate:</b>	No information found.
<b>Viscosity:</b>	No information found.
<b>Partition Coefficient (n-octanol/water):</b>	No information found.

## 10. STABILITY AND REACTIVITY

<b>Reactivity Data:</b>	No information found.
<b>Chemical Stability:</b>	Stable under normal conditions. Sensitive to air.
<b>Conditions to Avoid:</b>	Heat, incompatible materials.
<b>Incompatible Materials:</b>	Oxidizing agents, acids, bases.
<b>Hazardous Decomposition Products:</b>	Carbon oxides, nitrogen oxides, sodium oxides, potassium oxides, phosphorus compounds, toxic fumes.



**Possibility of Hazardous Reactions:** May react vigorously or violently if exposed to extreme thermal conditions or if contacted 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:** May be harmful if swallowed. May cause irritation to the eyes, skin, respiratory tract, and gastrointestinal tract. May affect the nervous system.

**Chronic Effects:** Prolonged or repeated exposure may affect the liver, kidneys, cardiovascular system, and nervous system. May cause mutagenic effects.

**Toxicological Data:**

Water:	No information found.
Nonhazardous Ingredients:	No information found.
Sodium Azide:	LD50 Oral, Mouse: 27 mg/kg LD50 Dermal, Rabbit: 20 mg/kg May be mutagenic based on animal data.

**Symptoms of Exposure:** Irritation, nausea, vomiting, diarrhea, abdominal pain, nervous system effects.

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

## 12. ECOLOGICAL INFORMATION

**Ecotoxicological Data:**

Water:	No information found.
Nonhazardous Ingredients:	No information found.
Sodium Azide:	No information found.

**Persistence and Degradability:** May not be readily biodegradable.

**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.

## 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. Offer rinsed packaging material to local recycling facilities.

**Waste Codes:** No information found.

## 14. TRANSPORT INFORMATION

**DOT:** Not regulated.

**Other Transport Precautions:** No information found.

## 15. REGULATORY INFORMATION

### U.S. Federal Regulations:

**OSHA:** This product is not 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:** Extremely hazardous substance: Sodium Azide

**Sections 311/312:**

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

**Section 313:** Sodium Azide

**CERCLA Reportable Quantities:** Sodium Azide: 1000 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:**

Jorgensen Laboratories 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. Jorgensen Laboratories 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:**

October 16, 2014

**Reason for Revision:**

Not applicable.