

## **SAFETY DATA SHEETS**

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

078225479

**The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).**

078926571

**The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).**

078079708

# SAFETY DATA SHEET

## 1. Identification

<b>Product identifier</b>	<b>Fel-O-Vax® LvK/FIV</b>
<b>Other means of identification</b>	
<b>Synonyms</b>	Feline Immunodeficiency-Leukemia Virus Vaccine
<b>Recommended use</b>	Indicated for vaccination of healthy cats in the prevention of infection with feline immunodeficiency virus and as an aid in the prevention of disease caused by feline leukemia virus.
<b>Recommended restrictions</b>	Not for human use.
<b>Manufacturer/Importer/Supplier/Distributor information</b>	
<b>Manufacturer</b>	Boehringer Ingelheim Vetmedica, Inc.
<b>Address</b>	2621 North Belt Hwy St. Joseph, MO 64506-2002
<b>Transportation emergency</b>	For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-527-3887 (collect calls accepted) (866)638-2226
<b>Medical Emergency (24HR):</b>	
<b>Non-Emergency calls:</b>	(800) 821-7467

## 2. Hazard(s) identification

<b>Physical hazards</b>	Not classified.
<b>Health hazards</b>	Not classified.
<b>OSHA defined hazards</b>	Not classified.
<b>Label elements</b>	
<b>Hazard symbol</b>	None.
<b>Signal word</b>	None.
<b>Hazard statement</b>	The mixture does not meet the criteria for classification.
<b>Precautionary statement</b>	
<b>Prevention</b>	Observe good industrial hygiene practices.
<b>Response</b>	Wash hands after handling.
<b>Storage</b>	Store away from incompatible materials. Keep at a temperature between 2 - 7°C Do not freeze.
<b>Disposal</b>	Dispose of waste and residues in accordance with local authority requirements.
<b>Hazard(s) not otherwise classified (HNOC)</b>	None known.
<b>Supplemental information</b>	Not applicable.

## 3. Composition/information on ingredients

### Mixtures

Chemical name	CAS number	%
Feline Immunodeficiency- Leukemia killed virus	Not Applicable	Proprietary
Proprietary adjuvant	Not Applicable	Trade Secret

**Composition comments** Thimerosal, neomycin and polymyxin B added as preservatives.

## 4. First-aid measures

<b>Inhalation</b>	Move to fresh air. Call a physician if symptoms develop or persist.
<b>Skin contact</b>	Wash off with soap and water. Get medical attention if irritation develops and persists.
<b>Eye contact</b>	Rinse with water. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Rinse mouth. Get medical attention if symptoms occur.
<b>Most important symptoms/effects, acute and delayed</b>	Direct contact with eyes may cause temporary irritation.
<b>Indication of immediate medical attention and special treatment needed</b>	Not for human use. For use in felines only.
<b>General information</b>	Persons developing anaphylactic (life-threatening) reactions, such as difficulty in breathing or unconsciousness, must receive immediate medical attention.

## 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards arising from the chemical</b>	During fire, gases hazardous to health may be formed.
<b>Special protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Fire fighting equipment/instructions</b>	Move containers from fire area if you can do so without risk.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>General fire hazards</b>	No unusual fire or explosion hazards noted.

## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.
<b>Methods and materials for containment and cleaning up</b>	<p>Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.</p> <p>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.</p> <p>Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.</p>
<b>Environmental precautions</b>	Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

<b>Precautions for safe handling</b>	Observe good industrial hygiene practices.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in original tightly closed container. Keep at a temperature between 2 - 7°C (33 - 45° F). Store away from foodstuffs. Protect from direct sunlight. Protect from freezing. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

<b>Occupational exposure limits</b>	No exposure limits noted for ingredient(s).
<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
<b>Appropriate engineering controls</b>	Good general ventilation (typically 10 air changes per hour) should be used. 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>Individual protection measures, such as personal protective equipment</b>	
<b>Eye/face protection</b>	Not generally required when handling containers. If containers are compromised or exposure to the mixture is likely: Wear safety glasses with side shields (or goggles).

<b>Skin protection</b>	
<b>Hand protection</b>	Not generally required when handling containers. If containers are compromised or exposure to the mixture is likely: Wear suitable gloves.
<b>Other</b>	Not generally required when handling containers. If containers are compromised or exposure to the mixture is likely: Wear lab coat, apron or appropriate clothing to prevent skin contact.
<b>Respiratory protection</b>	Not generally required when handling vials or containers. If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Respirator type: NIOSH approved organic vapor respirator.
<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.
<b>General hygiene considerations</b>	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

<b>Appearance</b>	Reddish-white liquid
<b>Physical state</b>	Liquid.
<b>Form</b>	Killed virus in an injectable solution
<b>Color</b>	Reddish-white
<b>Odor</b>	Odorless.
<b>Odor threshold</b>	Not available.
<b>pH</b>	6 - 8
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	Not available.
<b>Flash point</b>	Not available.
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Soluble
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.

## 10. Stability and reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	Contact with incompatible materials.
<b>Incompatible materials</b>	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	No hazardous decomposition products are known.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation</b>	No adverse effects due to inhalation are expected.
<b>Skin contact</b>	No adverse effects due to skin contact are expected. May cause an allergic skin reaction.
<b>Eye contact</b>	Direct contact with eyes may cause temporary irritation.
<b>Ingestion</b>	Expected to be a low ingestion hazard.

**Symptoms related to the physical, chemical and toxicological characteristics** In case of accidental injection, wash the site thoroughly. Contact a physician immediately.

### Information on toxicological effects

<b>Acute toxicity</b>	This product is considered nontoxic.
<b>Skin corrosion/irritation</b>	Prolonged skin contact may cause temporary irritation.
<b>Serious eye damage/eye irritation</b>	Direct contact with eyes may cause temporary irritation.
<b>Respiratory or skin sensitization</b>	
<b>Respiratory sensitization</b>	Not available.
<b>Skin sensitization</b>	This product is not expected to cause skin sensitization.
<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
<b>Carcinogenicity</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

<b>Reproductive toxicity</b>	This product is not expected to cause reproductive or developmental effects.
<b>Specific target organ toxicity - single exposure</b>	Not classified.
<b>Specific target organ toxicity - repeated exposure</b>	Not classified.
<b>Aspiration hazard</b>	Due to partial or complete lack of data the classification is not possible.
<b>Chronic effects</b>	Possible hypersensitization (development of abnormal sensitivity).

## 12. Ecological information

<b>Ecotoxicity</b>	No ecotoxicity data noted for the ingredient(s).
<b>Persistence and degradability</b>	No data is available on the degradability of this product.
<b>Bioaccumulative potential</b>	No data available.
<b>Mobility in soil</b>	This product has not been tested.
<b>Other adverse effects</b>	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

<b>Disposal instructions</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
<b>Local disposal regulations</b>	Dispose in accordance with all applicable regulations.
<b>Hazardous waste code</b>	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Waste from residues / unused products</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## 14. Transport information

### DOT

Not regulated as dangerous goods.

## IATA

Not regulated as dangerous goods.

## IMDG

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not available.

## 15. Regulatory information

### US federal regulations

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

#### CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

<b>Hazard categories</b>	Immediate Hazard - No
	Delayed Hazard - No
	Fire Hazard - No
	Pressure Hazard - No
	Reactivity Hazard - No

#### SARA 302 Extremely hazardous substance

Not listed.

<b>SARA 311/312 Hazardous chemical</b>	No
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#### SARA 313 (TRI reporting)

Not regulated.

### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

<b>Safe Drinking Water Act (SDWA)</b>	Not regulated.
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### US state regulations

#### US. Massachusetts RTK - Substance List

Not regulated.

#### US. New Jersey Worker and Community Right-to-Know Act

Not listed.

#### US. Pennsylvania Worker and Community Right-to-Know Law

Not listed.

#### US. Rhode Island RTK

Not regulated.

#### US. California Proposition 65

Not Listed.

### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No

Country(s) or region	Inventory name	On inventory (yes/no)*
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

**Issue date** 27-April-2015  
**Revision date** -  
**Version #** 01  
**HMIS® ratings** Health: 0  
Flammability: 0  
Physical hazard: 0

### NFPA ratings



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

Product Code: J326AS

Effective Date:

**SEP 21 2009**

24 Hour Emergency Telephone:

CMB: (800)535-5053

All non-emergency questions may be directed to customer service @ 1-970-669-2500 or fax 1-970-663-5042

**HAZARDOUS INFORMATION****Product Identification****Acid Fast Stain Set Solution 1, Kinyoun Carbol Fuchsin**

Hazardous Ingredient: Phenol, 7.5%	CAS #: 108-95-2	Molecular Weight: 94.11	Chemical Formula: $C_6H_5OH$
Ethanol, 15%	CAS #: 64-17-5	Molecular Weight: 46.07	Chemical Formula: $CH_3CH_2OH$
Basic Fuchsin, 3%	CAS #: 569-61-9	Molecular Weight: 323.8	Chemical Formula: $C_{19}H_{18}NiCl$

**Acid Fast Stain Set Solution 2, Methanol**

Hazardous Ingredient: Methanol, 100%  
Synonyms: methyl alcohol, wood alcohol, carbinol  
CAS #: 67-56-1  
Molecular Weight: 32.04  
Chemical Formula:  $CH_3OH$

**Acid Fast Stain Set Solution 3, Ethanol, 50%**

Hazardous Ingredient: Denatured Ethanol, 50%  
Synonyms: doubly denatured ethanol, modified 3A alcohol, alcohol anhydrous  
CAS #: 64-17-5  
Molecular Weight: 46.07  
Chemical Formula:  $CH_3CH_2OH$

**Acid Fast Stain Set Solution 4, Sulfuric Acid, 1%**

Hazardous Ingredient: Sulfuric Acid, 1%  
Synonyms: oil of vitriol, babcock acid.  
CAS #: 7664-93-9  
Molecular Weight: 98.08  
Chemical Formula:  $H_2SO_4$

**Acid Fast Stain Set Solution 5, Loeffler's Methylene Blue**

Hazardous Ingredient: Denatured Ethanol, 23%  
Synonyms: doubly denatured ethanol, modified 3A alcohol, alcohol anhydrous  
CAS #: 64-17-5  
Molecular Weight: 46.07  
Chemical Formula:  $CH_3CH_2OH$

**HAZARDS IDENTIFICATION****Emergency Overview****Acid Fast Stain Set Solution 1, Kinyoun Carbol Fuchsin:**

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

SAFETY RATINGS: Health: 3, Severe (Poison) Reactivity: 0, None  
Flammability: 1, Slight Contact: 2, Moderate

Protective Equipment: Goggles, Lab Coat or Apron, Gloves, Local or General Exhaust Ventilation.

Storage Code: Blue: Health Hazard.

**Acid Fast Stain Set Solution 2, Methanol:**

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



Product #: J326AS

## Acid Fast Stain Set

**SAFETY RATINGS:** Health: 3, Severe (Poison) Reactivity: 1, Slight  
Flammability: 4, Extreme (Flammable) Contact: 1, Slight  
**Protective Equipment:** Goggles, Lab Coat or Apron, Gloves, Local or General Exhaust Ventilation.  
**Storage Code:** Red: Flammable Hazard.

### Acid Fast Stain Set Solution 3, Ethanol, 50%:

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

**SAFETY RATINGS:** Health: 3, Severe (Poison) Reactivity: 1, Slight  
Flammability: 2, Moderate (Flammable) Contact: 1, Slight  
**Protective Equipment:** Safety Glasses or Goggles, Lab Coat or Apron, Gloves.  
**Storage Code:** Red: Flammable Hazard.

### Acid Fast Stain Set Solution 4, Sulfuric Acid, 1%:

**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.

**SAFETY RATINGS:** Health: 1, Slight Reactivity: 0, None  
Flammability: 0, None Contact: 1, Slight  
**Protective Equipment:** Safety Glasses or Goggles, Lab Coat or Apron, Gloves.  
**Storage Code:** Green: Minimal Hazard.

### Acid Fast Stain Set Solution 5, Loeffler's Methylene Blue:

**POISON! DANGER! MAY BE FATAL OR CAUSE BLINDNESS IF SWALLOWED. HARMFUL IF INHALED OR ABSORBED THROUGH SKIN. CANNOT BE MADE NONPOISONOUS. MAY CAUSE IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. AFFECTS CENTRAL NERVOUS SYSTEM, LIVER AND KIDNEYS. May stain skin and clothing.**

**SAFETY RATINGS:** Health: 3, Severe (Poison) Reactivity: 1, Slight  
Flammability: 2, Moderate (Flammable) Contact: 1, Slight  
**Protective Equipment:** Safety Glasses or Goggles, Lab Coat or Apron, Gloves.  
**Storage Code:** Red: Flammable Hazard.

## Potential Health Effects

### Acid Fast Stain Set Solutions 1, Kinyoun's; 2, Methanol; 3, Ethanol, 50%:

#### **INHALATION:**

**Methanol & Ethanol:** Slight irritants 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. **Phenol:** The major hazard of Phenol is its ability to penetrate the skin rapidly, particularly when liquid, causing severe injury which can be fatal. Phenol also has a strong corrosive effect on body tissue causing severe chemical burns. Due to its local anesthetizing properties, skin burns may be painless.

#### **INGESTION:**

**Methanol & Ethanol:** Toxic! Symptoms parallel inhalation. Can intoxicate and cause blindness. Usual fatal dose: 100-125 milliliters. **Phenol:** Toxic! Symptoms may include burning pain in mouth and throat, abdominal pain, nausea, vomiting, headache, dizziness, muscular weakness, central nervous system effects, increase in heart rate, irregular breathing, coma, and possibly death. Acute exposure is also associated with kidney and liver damage. Ingestion of 1 gram has been lethal to humans.

#### **SKIN CONTACT:**

**Methanol & Ethanol:** Defatting agents and may cause skin to become dry and cracked. Skin absorption can occur, symptoms may parallel inhalation exposure. **Phenol:** May cause irritation or burns. Rapidly absorbed through the skin with systemic poisoning effects to follow, symptoms may parallel inhalation exposure.

#### **EYE CONTACT:**

**Methanol & Ethanol:** Irritant. Continued exposure may cause eye lesions. **Phenol:** Eye burns with redness, pain, blurred vision may occur. May cause severe damage and blindness.

**CHRONIC EXPOSURE:**

**Methanol & Ethanol:** Marked impairment of vision and enlargement of the liver have been reported. Repeated or prolonged exposure may cause skin irritation. **Phenol:** Repeated exposure may cause symptoms described for acute poisoning as well as eye & skin discoloration.

**AGGRAVATION of PRE-EXISTING CONDITIONS:**

Persons with pre-existing skin, eye or central nervous system disorders, or impaired liver, kidney, or pulmonary function may be more susceptible to the effects of the substance.

**Acid Fast Stain Set Solutions 4, Sulfuric Acid, 1% & 5, Loeffler's Methylene Blue:****INHALATION:**

No known effects.

**INGESTION:**

May be harmful. May cause nausea, intoxication, blindness, 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

**Acid Fast Stain Set Solutions 1, Kinyoun's; 2, Methanol; 3, Ethanol, 50%:****INHALATION:**

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

**INGESTION:**

**Methanol & Ethanol:** Induce vomiting immediately as directed by medical personnel. **Phenol:** Immediately administer castor oil or other vegetable oil. Never give anything by mouth to an unconscious person. Be ready to induce vomiting at the advice of physician or poison control center. Castor oil or vegetable oil dosage should be between 15 & 30 cc. 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 advise 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.

**Acid Fast Stain Set Solutions 4, Sulfuric Acid, 1% & 5, Loeffler Methylene Blue:****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 advise 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 advise if irritation develops.

## FIRE FIGHTING MEASURES

**FIRE:**

Flash Point: No information available.

Autoignition Temperature: No information available.

Flammable Limits in Air % by Volume: No information available.

**EXPLOSION:**

**Methanol:** 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.

**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.

**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. Collect liquid in an appropriate container or absorb with a paper towel for proper disposal. Do not flush to sewer! Wash area with soap and water.

## 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

**Acid Fast Stain Set:****AIRBORNE EXPOSURE LIMITS, METHANOL:**

OSHA; Permissible Exposure Limit (PEL): 200 ppm (TWA).

ACGIH; Threshold Limit Value (TLV): 200 ppm (TWA).  
200 ppm (STEL) skin.

**AIRBORNE EXPOSURE LIMITS, ETHANOL:**

OSHA; Permissible Exposure Limit (PEL): 1000 ppm (TWA).

ACGIH; Threshold Limit Value (TLV): 1000 ppm (TWA).

**AIRBORNE EXPOSURE LIMITS, PHENOL:**

OSHA; Permissible Exposure Limit (PEL): 5 ppm (TWA) skin.

ACGIH; Threshold Limit Value (TLV): 5 ppm (TWA) 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

APPEARANCE:	Characteristic.
ODOR:	Characteristic.
SOLUBILITY:	No information available.
SPECIFIC GRAVITY:	No information available.
pH:	No information available.
% VOLATILES by VOLUME:	No information available.
BOILING POINT:	No information available.
MELTING POINT:	No information available.
VAPOR DENSITY (Air =1):	No information available.
VAPOR PRESSURE (mm Hg):	No information available.
EVAPORATION RATE (BuAc=1):	No information available.

## STABILITY AND REACTIVITY

### STABILITY:

Stable under ordinary conditions of use and storage.

### HAZARDOUS DECOMPOSITION PRODUCTS:

No information available.

### HAZARDOUS POLYMERIZATION:

Will not occur.

### INCOMPATIBILITIES:

Strong oxidizing agents and bases. Avoid heat, flame and other sources of ignition.

### CONDITIONS to AVOID:

Heat, flames, ignition sources and incompatibles.

## TOXICOLOGICAL INFORMATION

### TOXICOLOGICAL DATA:

**Methanol:** 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.

**Ethanol:** Oral rat LD50: 7060 mg/kg; Inhalation rat LC50: 20000 ppm/10H; Irritation data: Standard Draize Test, Eye rabbit: 500 mg/24hr., moderate. Investigated as a mutagen, reproductive effector.

**Phenol:** Oral rat LD50: 317 mg/kg; Inhalation rat LC50: 316 mg/m<sup>3</sup>; Skin rabbit LD50: 630 mg/kg. Irritation data: Standard Draize Test, Skin rabbit: 500 mg/24hr., severe; Eye rabbit: 5 mg/<sup>30S</sup>rinse, mild. Investigated as a tumorigen, mutagen, reproductive effector.

## ECOLOGICAL INFORMATION

When released into the soil, this material may leach into ground water.

### ENVIRONMENTAL TOXICITY:

This material is expected to be 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

**Acid Fast Stain Set Solution 2, Methanol:**

TRANSPORT (Land, DOT):

Methanol, 3, UN1230, II

**Acid Fast Stain Set Solutions 3, Ethanol 50%:**

TRANSPORT (Land, DOT):

Alcohols, n.o.s. (denatured ethanol), 3, 1987, II

**Acid Fast Stain Set Solutions 5, Leoffler's Methylene Blue:**

TRANSPORT (Land, DOT):

Alcohols, n.o.s. (denatured ethanol), 3, 1987, III

**Acid Fast Stain Set Solutions 1, Kinyoun Carbol Fuchsin & 4, Sulfuric Acid 1%:**

TRANSPORT (Land, DOT):

Not Regulated

**PRODUCT USE:**

Laboratory Reagent.

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**SDS**

## Safety Data Sheet

### 1. IDENTIFICATION

**Product Identifier:** Loeffler's Methylene Blue

**Product Code(s):** J0326ASD4

**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:** Flammable Liquids: Category 3

**Signal Word:** WARNING

**Hazard Statements:** Flammable liquid and vapor.

**Pictograms:**



**Precautionary Statements:**

**Prevention:** 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.  
Wear protective gloves, protective clothing, eye protection, and face protection.

**Response:** If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

In case of fire: Use water spray, dry powder, alcohol resistant foam, or carbon dioxide to extinguish.

**Storage:** Store in a well-ventilated place. Keep cool.

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

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

**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	80.7
Ethanol	Ethyl Alcohol	64-17-5	C <sub>2</sub> H <sub>5</sub> OH	17.0
Methanol	Methyl Alcohol	67-56-1	CH <sub>3</sub> OH	0.848
Isopropanol	Isopropyl Alcohol	67-63-0	C <sub>3</sub> H <sub>7</sub> OH	0.942
Methylene Blue	Basic Blue 9	7220-79-3	C <sub>16</sub> H <sub>18</sub> N <sub>3</sub> SCl • 3H <sub>2</sub> O	0.397
Potassium Hydroxide	Caustic Potash	1310-58-3	KOH	0.0446

**Trade Secret Statement:** Not applicable.

### 4. FIRST AID MEASURES

#### First Aid Procedures:

**Inhalation:** Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. 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 immediately if you feel unwell or are concerned.

**Skin Contact:** Remove contaminated clothing and shoes. Wash skin with plenty of water for at least 15 minutes. Wash clothing before reuse. Call a physician immediately if you feel unwell or are concerned.

**Eye Contact:** Check for and remove contact lenses if present and easy to do. Immediately flush eyes with gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Call a physician immediately if you feel unwell or are concerned.

**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:** Irritation, nausea, vomiting, diarrhea, visual disturbances, abdominal pain, nervous system effects, drowsiness, dizziness, blindness, metabolic acidosis, unconsciousness. May cause irritation to the eyes, skin, respiratory tract, and gastrointestinal tract. May cause blindness or visual disturbances if absorbed into the blood stream. May affect the blood, brain, urinary system, liver, spleen, eyes, kidneys, cardiovascular system, and pancreas. Prolonged or repeated exposure may affect the liver, kidneys, cardiovascular system, and nervous system. May cause damage to eyesight. May cause mutagenic effects, adverse reproductive effects, and dermatitis.

**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, toxic fumes.

**Specific Hazards:** Flammable. Vapors may cause flash fire or ignite explosively. Burns if ignited by heat, sparks, or flames. Sealed containers may explode when heated or involved in fire. Material may be sensitive to static discharge. Vapors may travel considerable distance to source of ignition and flash back. Vapor from the solvent may accumulate in container headspace, resulting in flammability hazard.

**Special Protective Equipment/  
Precautions for Firefighters:** As in any fire, wear MSHA/NIOSH-approved (or equivalent), self-contained, positive-pressure or pressure-demand breathing apparatus and full protective gear. Use water spray to cool unopened containers. Move containers from fire area, if you can do so without risk. This material may evaporate and leave a flammable residue if spilled. In the event of fire and/or explosion, do not breathe fumes.

## **6. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions and Protective Equipment:** 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). Remove all sources of ignition. 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:** Do not handle near an open flame, excessive heat, or sources of ignition. Wear personal protective equipment (see Section 8). 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. 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.	
	Ethanol:	ACGIH: STEL:	1000 ppm
		OSHA: PEL:	1000 ppm
			1900 mg/m³
	Methanol:	ACGIH: TWA:	200 ppm
		STEL:	250 ppm
		BEL:	15 mg/L
	OSHA: PEL:	200 ppm	
		260 mg/m³	
	Isopropanol:	ACGIH: TWA:	200 ppm
		STEL:	400 ppm
		BEL:	40 mg/L
	OSHA: PEL:	400 ppm	
		980 mg/m³	
	Methylene Blue:	No information found.	
	Potassium Hydroxide:	OSHA: PEL:	2 mg/m³
		ACGIH: TLV:	2 mg/m³
Engineering Controls:	Ensure adequate ventilation. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.		
Personal Protective Measures:			
Eye/Face Protection:	Wear safety glasses with side shields or safety goggles. Wear a face shield. Maintain approved eye wash station and accessible rinse facilities in work area.		
Skin Protection:	Wear appropriate chemical resistant clothing (with long sleeves) and appropriate chemical resistant gloves.		
Respiratory Protection:	An air-purifying, NIOSH-approved respirator with appropriate cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Use a positive-pressure, air-supplied respirator if there is any potential for an uncontrolled release, if exposure levels are unknown, or 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

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

**Appearance:** Blue, opaque liquid.

<b>Odor:</b>	Slight, alcoholic.
<b>Odor Threshold:</b>	No information found.
<b>Formula Weight:</b>	Mixture.
<b>pH:</b>	No information found.
<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>	38 °C (estimated)
<b>Auto-ignition Temperature:</b>	No information found.
<b>Flammability:</b>	Flammable liquid and vapor.
<b>Flammability/Explosive Limits:</b>	No information found.
<b>Solubility:</b>	Miscible with water, alcohol.
<b>Vapor Pressure:</b>	No information found.
<b>Vapor Density:</b>	No information found.
<b>Specific Gravity:</b>	0.960 (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>	Flammable. See Section 9.
<b>Chemical Stability:</b>	Stable under normal conditions.
<b>Conditions to Avoid:</b>	Heat, incompatible materials.
<b>Incompatible Materials:</b>	Oxidizing agents, acids, bases, metals, organic materials.
<b>Hazardous Decomposition Products:</b>	Carbon oxides, nitrogen 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>	May be harmful if swallowed. May cause irritation to the eyes, skin, respiratory tract, and gastrointestinal tract. May cause blindness or visual disturbances if absorbed into the blood stream. May affect the blood, brain, urinary system, liver, spleen, eyes, kidneys, cardiovascular system, and pancreas.

<b>Chronic Effects:</b>	Prolonged or repeated exposure may affect the liver, kidneys, cardiovascular system, and nervous system. May cause damage to eyesight. May cause mutagenic effects, adverse reproductive effects, and dermatitis.		
<b>Toxicological Data:</b>	Water:	Not applicable.	
	Ethanol:	LD <sub>50</sub> Oral, Rat:	7060 mg/kg
		LC <sub>50</sub> Inhalation, Rat:	124.7 mg/L 4 h
	Methanol:	LD <sub>50</sub> Oral, Rat:	5628 mg/kg
		LD <sub>50</sub> Dermal, Rabbit:	15,800 mg/kg
		LC <sub>50</sub> Inhalation, Rat:	87.5 mg/L 6 h
	Isopropanol:	LD <sub>50</sub> Oral, Rat:	5045 mg/kg
		LD <sub>50</sub> Dermal, Rabbit:	12,800 mg/kg
		LC <sub>50</sub> Inhalation, Rat:	72.6 mg/L 4 h
	Methylene Blue:	No information found.	
	Potassium Hydroxide:	LD <sub>50</sub> Dermal, Rabbit:	273 mg/kg
		Corrosive to eyes and skin based on human and animal data.	
<b>Symptoms of Exposure:</b>	Irritation, nausea, vomiting, diarrhea, visual disturbances, abdominal pain, nervous system effects, drowsiness, dizziness, blindness, metabolic acidosis, unconsciousness.		
<b>Carcinogenic Effects:</b>	No component of this product is considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.		
<b>ACGIH:</b>	Isopropanol:	A4 – Not classifiable as a human carcinogen	
<b>IARC:</b>	Isopropanol:	3 – Not classifiable as to its carcinogenicity to humans	

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicological Data:</b>	Water:	Not applicable.	
	Ethanol:		
		EC <sub>50</sub> , Water Flea ( <i>Daphnia magna</i> ):	7.7 mg/L 48 h
		LC <sub>50</sub> , Fathead Minnow ( <i>Pimephales promelas</i> ):	> 100 mg/L 96 h
	Methanol:		
		EC <sub>50</sub> , Water Flea ( <i>Daphnia magna</i> ):	> 10,000 mg/L 48 h
		LC <sub>50</sub> , Fathead Minnow ( <i>Pimephales promelas</i> ):	> 100 mg/L 96 h
	Isopropanol:		
		LC <sub>50</sub> , Western Mosquitofish ( <i>Gambusia affinis</i> ):	>1400 mg/L 96 h
	Methylene Blue:	No information found.	
	Potassium Hydroxide:		
		LC <sub>50</sub> , Western Mosquitofish ( <i>Gambusia affinis</i> ):	80 mg/L 96 h
<b>Persistence and Degradability:</b>	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:** Methanol: U154 (US RCRA Hazardous Waste U List – Ignitable Waste)

### 14. TRANSPORT INFORMATION

**DOT:**

**UN Number:** UN1987

**Proper Shipping Name:** Alcohols, n.o.s. (Denatured ethanol)

**Hazard Class:** 3

**Packing Group:** III

**ERG Number:** 127

**Environmental Hazard Regulations:** No information found.

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

### 15. REGULATORY INFORMATION

**U.S. Federal Regulations:**

**OSHA:** This product is considered a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**TSCA Inventory:** All components of this product are on the U.S. TSCA Inventory.

**U.S. EPCRA (SARA Title III):**

**Section 302:** No information found.

**Sections 311/312:**

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

**Section 313:** Isopropyl Alcohol, Methanol: De Minimis Concentration: 1.0%

**CERCLA Reportable Quantities:** Methanol: 5000 lb  
Potassium Hydroxide: 1000 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

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**Reason for Revision:** Update of Section 8, 9, 11, 12, and 15 over 03/06/2016 version.