



Kit Summary

Product Code(s) VB-3024
Product name Southgate Mucicarmine Stain Kit (Mucin Stain)

Hematoxylin(Maver's Solution)

Chemical Name	EC-No	CAS-No	Weight%	Classification (Reg. 1272/2008)	REACH Registration Number
Glycerol	200-289-5	56-81-5	30	-	-
Aluminum sulfate	-	7784-31-8	5	Eye Dam. 1 (H318)	-
Acetic acid	200-580-7	64-19-7	2	Skin Corr. 1A (H314) Flam Liq. 3 (H226)	-
Hematoxylin	-	517-28-2	1	Eye Irrit. 2 (H319)	-

Mucicarmine solution

ChemicalName	EC-No	CAS-No	Weight%	Classification(Reg. 1272/2008)	REACH Registration Number
Ethanol	200-578-6	64-17-5	50	Flam Liq. 2 (H225)	-
Carmine, Alum Lake		1390-65-4		This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)	
AluminiumHydroxide	244-492-7	1330-44-5		Not a hazardous substance or mixture	

Metanil Yellow Solution

Chemical Name	EC-No	CAS-No	Weight%	Classification(Reg. 1272/2008)	REACH Registration Number
Acetic acid	200-580-7	64-19-7	0.5	Skin Corr. 1A (H314) Flam Liq. 3 (H226)	-
Metanil Yellow	-	587-98-4		Serious eye damage (Category 1), H318 Short-term (acute) aquatic hazard (Category 2), H401 Long-term (chronic) aquatic hazard (Category 3), H412	-

GHS/ CLP - GHS - Classification



Signal Word

Warning

Hazard statements

H315- Causes skin irritation

H319 - Causes serious eye

irritationH226- Flammable liquid and

vapor

Precautionary Statements-EU (§28, 1272/2008) P270 - Do not

eat, drink or smoke when using this productP280-

Wearprotectivegloves/eye protection/face protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/shower

P501- Dispose of contents/container to location in accordance with local/regional/national/international regulations.

2.3 Other information

As safety data sheet follows for all potentially hazardous components—all other components are non-hazardous.

TRANSPORTINFORMATION

<u>DOT</u>	Limited Quantity
Proper shipping name	Ethanol solution
Hazard class	3
UN/IDNo	UN1170
Packing group	III

<u>IATA</u>	Limited Quantity
UN/IDNo	UN1170
Proper shipping name	Ethanol solution
Hazard class	3
Packing group	III

<u>ADR</u>	Limited Quantity
Proper shipping name	Ethanol solution
Hazard class	3
UN/IDNo	UN1170
Packing group	III



Revision Date: Jan-01-2021 Version 2

1. PRODUCT AND COMPANY IDENTIFICATION

Product name Hematoxylin (Mayer's Solution)

Recommended use: For research use only

Address: 405 E. Gude Dr., Suite 214, Rockville, MD 20850

Phone: 301-500-0499

Fax: 844-248-6208

Email: info@vitrovivo.com

2. HAZARDS IDENTIFICATION

GHS- Classification

Serious eye damage/eye irritation

Category2

GHS Label elements, including precautionary statements



Signal Word

Warning

Hazard statements

H319- Causes serious eye irritation

Precautionary Statements-EU(\$28,1272/2008)

P280- Wear protective gloves/ eye protection/ face protection

P264- Wash face, hands and any exposed skin thoroughly after handling

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337+ P313 - If eye irritation persists: Get medical advice/ attention

Other information

No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Chemical Name	CAS-No	Weight%	Classification(Reg. 1272/2008)
Glycerol	56-81-5	15-40	-
Aluminum sulfate	7784-31-8	3-7	Eye Dam. 1 (H318)
Acetic acid	64-19-7	1-5	Skin Corr. 1A (H314) Flam Liq. 3 (H226)
Hematoxylin	517-28-2	1-5	Eye Irrit. 2 (H319)

For the full text of the H-Statements mentioned in this Section, see Section 16

4. FIRST AID MEASURES

General advice	Immediate medical attention is required.
Eye contact	immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Immediate medical attention is required.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Immediate medical attention is required.
Inhalation	Move to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Immediate medical attention is required.
Ingestion	Rinse mouth. Do NOT induce vomiting. Immediate medical attention is required.
Notes to physician	Treat symptomatically.
Protection of first-aiders	Use personal protective equipment. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. FIRE-FIGHTING MEASURES

Flammable properties	Not flammable.
Flashpoint	not determined
Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Explosion Data	
Sensitivity to Mechanical Impact	None.
Sensitivity to Static Discharge	None.
Protective equipment and precautions for fire fighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear to prevent contact with skin and eyes.

6.ACCIDENTAL RELEASE MEASURES

Personal precautions Use personal protective equipment. Avoid contact with the skin and the eyes. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Environmental precautions Try to prevent the material from entering drains or water courses.

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. After cleaning, flush away traces with water. Prevent product from entering drains. Dam up.

7. HANDLING AND STORAGE

Advice on safe handling Ensure adequate ventilation. Wear personal protective equipment. Use only in area provided with appropriate exhaust ventilation. Do not breathe vapors or spray mist.

Technical measures/Storage conditions Keep container tightly closed. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers.

8. EXPOSURECONTROLS/PERSONAL PROTECTION

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits Established by the region specific regulatory bodies.

Chemical Name	ACGIHTLV	OSHAPEL	NIOSHIDLH
Glycero 156-81- 5	TWA:10 mg/m ³ mist	TWA:15 mg/m ³ mist, total particulate TWA: 5 mg/m ³ mist, respirable fraction (vacated)TWA: 10mg/m ³ mist, total particulate (vacated) TWA: 5mg/m ³ mist, respirable fraction	
Acetic acid64- 19-7	STEL:15 ppm TWA: 10ppm	TWA: 10 ppm TWA: 25 mg/m ³ (vacated) TWA: 10 ppm (vacated)TWA:25 mg/m ³	IDLH:50 ppm TWA:10ppmTWA:25 mg/m ³ STEL:15ppm STEL:37mg/m ³

Engineering measures Showers
Eye wash stations
Ventilation systems

Personal protective equipment

Eye/face protection tightly fitting safety goggles. Face-shield.

Skin and body protection Long sleeved clothing. Protective gloves.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygienemeasures When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use.Provide regular cleaning of equipment, work area and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	No information available.	Odor	No information available.
Odor Threshold	No information available	PhysicalState@20°C	Liquid
pH	No information available		
Flashpoint	No information available	Auto ignition temperature	No information available
Decomposition temperature	No information available	Boiling point/boiling range	No information available
Melting point/range	No information available		
		Flammability Limits in Air	No information available
Explosion limits	No information available		
		solubility	No information available.
Specific Gravity	No data available	Vapor Pressure @20°C (kPa)	No information available
Evaporation rate	No information available	VOContent(%)	32
Vapor density	No data available		

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions.
Incompatible products	None known based on information supplied.
Conditions to avoid	None known based on information supplied.
Hazardous decomposition products	None known based on information supplied.
Hazardous polymerization	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product Information	Irritating to eyes
Eye contact	severely irritating to eyes

Chemical Name	LD50Oral	LD50Dermal	LC50Inhalation
Acetic acid	3310mg/kg(Rat)	1060mg/kg (Rabbit)	11.4 mg/L(Rat) 4 h

Chronic toxicity

Chronic toxicity	Avoid repeated exposure
Target Organ Effects	None known.

VB-3024-1 Hematoxylin Mayer's Solution)

Chemical Name	CWA - Reportable Quantities	CWA- Toxic Pollutants	CWA- Priority Pollutants	CWA - Hazardous Substances
Acetic acid	5000lb			X

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Acetic acid	5000lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

U.S.State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S.State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Glycerol	X	X	X		X
Acetic acid	X	X	X		X

International Regulations

Chemical Name	Carcinogen Status	Exposure limits
Glycerol		Mexico: TWA 10 mg/m ³
Acetic acid		Mexico: TWA 10 ppm Mexico: TWA 25mg/m ³ Mexico: STEL 15 ppm Mexico: STEL 37mg/m ³

WHMIS Note:

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

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

H319-Causes serious eye irritation H314-Causes severe skin burns and eye damage H226- Flammable liquid and vapor H318 -Causes serious eye damage

Hazard statements

H319- Causes serious eye irritation

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.



Safety Data Sheet

Revision Date: Jan-01-2021 Version 2

1. PRODUCT AND COMPANY IDENTIFICATION

Product name	Mucicamine solution
Recommended use	For research use only
Address:	405 E. Gude Dr., Suite 214, Rockville, MD 20850
Phone:	301-500-0499
Fax:	844-248-6208
Email:	info@vitrovivo.com

2. HAZARDS IDENTIFICATION

GHS- Classification

Flammable liquids

Category3

GHS Label elements, including precautionary statements



Signal Word

Warning

Hazard statements

H226- Flammable liquid and vapor

Precautionary Statements-EU(\$28,1272/2008)

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smokingP403+

P235 - Store in a well-ventilated place. Keep cool

P370+ P378 - In case of fire: Use foam for extinction

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/shower

P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomitingP501-

Dispose of contents/ container to an approved waste disposal plant

Other information

No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Chemical Name	CAS-No	Classification (Reg. 1272/2008)
Ethanol	64-17-5	Flam. Liq. 2 (H225)
Carmine, Alum Lake	1390-65-4	This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)
Aluminum Hydroxide	1330-44-5	Not a hazardous substance or mixture

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

Eye contact

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes.

VB-3024-2 Mucicamine solution

Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Inhalation	Move to fresh air.
Ingestion	Clean mouth with water. Drink plenty of water.
Notes to physician	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flammable properties	flammable.
Flashpoint	not determined
Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<u>Explosion Data</u>	
Sensitivity to Mechanical Impact	None.
Sensitivity to Static Discharge	None.

Protective equipment and precautions for firefighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear to prevent contact with skin and eyes.
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6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Ensure adequate ventilation.
Environmental precautions	Try to prevent the material from entering drains or water courses.
Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice.
Technical measures/Storage conditions	Keep containers tightly closed in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

This product does not contain any hazardous materials with occupational exposure limits Established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethanol 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m ³ (vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m ³	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m ³

Engineering measures

Showers Eye Wash
stations
Ventilation systems

Personal protective equipment**Eye/face protection**

tightly fitting safety goggles. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin and body protection

Long sleeved clothing. Protective gloves.

Respiratory protection

If exposure limits are exceeded or irritation is experienced; NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	No information available.	Odor	No information available.
Odor Threshold	No information available	Physical State @ 20°C	Liquid
pH	No information available	Auto ignition temperature	No information available
Flashpoint	No information available	Boiling point/boiling range	No information available
Decomposition temperature	No information available	Flammability Limits in Air	No information available
Melting point/range	No information available	solubility	No information available.
Explosion limits	No information available	Vapor Pressure @ 20°C (kPa)	No information available
Specific Gravity	No data available		
Evaporation rate	No information available		

10. STABILITY AND REACTIVITY

Stability Stable under recommended storage conditions.

Incompatible products None known based on information supplied.

Conditions to avoid None known based on information supplied.

Hazardous decomposition products None known based on information supplied.

Hazardous polymerization Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acutotoxicity

Product Information Product does not present an acute toxicity hazard based on known or supplied information

Chemical Name	LD50Oral	LD50Dermal	LC50Inhalation
Ethanol	7060mg/kg(Rat)		124.7mg/L(Rat) 4 h

Chronic toxicity

Chronic toxicity May cause adverse liver effects Contains a known or suspected reproductive toxin

Chemical Name	ACGIH	IARC	NTP	OSHA
Ethanol	A3		Known	X

ACGIH :(American Conference of Governmental Industrial Hygienists)

A3- Animal Carcinogen

IARC :(International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

NTP: (National Toxicity Program)

Known- Known Carcinogen

OSHA :(Occupational Safety & Health Administration)

X - Present

Target Organ Effects None known.

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
Ethanol		12.0- 16.0: 96 h Oncorhynchusmykiss mL/L LC50static 100: 96 h Pimephalespromelas mg/L LC50static 13400 - 15100: 96h Pimephales promelas mg/LLC50 flow-through		9268- 14221: 48 h Daphnia magnamg/L LC50 10800: 24h Daphnia magna mg/L EC502: 48 h Daphnia magnamg/L EC50 Static
ChemicalName		log Pow		
Ethanol		-0.32		

13. DISPOSAL CONSIDERATIONS

VB-3024-2 Mucicamine solution

Waste disposal methods Dispose of in accordance with federal, state, and local regulations.

Contaminated packaging Do not re-use empty containers.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
Ethanol	Toxic Ignitable

14. TRANSPORT INFORMATION

DOT Limited Quantity
Proper shipping name Ethanol solution
Hazard class 3
UN/IDNo UN1170
Packing group III

IATA Limited Quantity
UN/IDNo UN1170
Proper shipping name Ethanol solution
Hazard class 3
Packing group III

ADR Limited Quantity
Proper shipping name Ethanol solution
Hazard class 3
UN/ID No UN1170
Packing group III

15. REGULATORY INFORMATION

U.S. Federal Regulations

SARA313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA311/312 Hazard Categories

Acute Health Hazard	no
Chronic Health Hazard	no
Fire Hazard	no
Sudden Release of Pressure Hazard	no
Reactive Hazard	no

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

VB-3024-2 Mucicamine solution

Chemical Name	CAS-No	California Prop. 65
Ethanol	64-17-5	Carcinogen Developmental 1

U.S.State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Ethanol	X	X	X		X

International Regulations

Chemical Name	Carcinogen Status	Exposure limits
Ethanol		Mexico: TWA 1000 ppm Mexico: TWA 1900mg/m ³

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

16.OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

H225- Highly flammable liquid and vapor

Hazard statements

H226- Flammable liquid and vapor

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.



1. PRODUCT AND COMPANY IDENTIFICATION

Product name Metanil Yellow solution

Recommended use For research use only

Address: 405 E. Gude Dr., Suite 214, Rockville, MD 20850

Phone: 301-500-0499

Fax: 844-248-6208

Email: info@vitrovivo.com

2. HAZARDS IDENTIFICATION

GHS- Classification

Ozone	Not applicable
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GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) statements

Serious eye damage (Category1), H318, Short-term (acute) aquatic hazard (Category 2), H401Long-term(chronic) aquatic hazard(Category3),H412

GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)
H318

Causes serious eye damage.

H401
H412

Toxic to aquatic life.
Harmful to aquatic life with long lasting effects.

Precautionary statement(s)
P273
P280
P305+P351+P338+P310

Avoid release to the environment.
Wear eye protection/face protection.

VB-3024-3 Metanil Yellow Solution

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
P501 Dispose of contents /container to an approved waste disposal plant.

Other information

No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Chemical Name	CAS-No	Weight%	Classification(Reg. 1272/2008)
Acetic acid	64-19-7	0.1-1	Skin Corr. 1A (H314)Flam Liq. 3 (H226)
Metanil Yellow	587-98-4		Serious eye damage (Category 1), H318 Short-term (acute) aquatic hazard (Category 2), H401 Long-term (chronic) aquatic hazard (Category 3), H412

For the full text of the H-Statements mentioned in this Section, see Section 16

4. FIRST AID MEASURES

Eye contact: immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes.

Skin contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

Inhalation: Move to fresh air.

Ingestion: Clean mouth with water. Drink plenty of water.

Notes to physician: Treat symptomatically

5. FIRE-FIGHTING MEASURES

Extinguishing media Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture

Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides, Sodium oxides

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Explosion Data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

Protective equipment and precautions for fire fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Method and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

Conditions for safe storage, including any incompatibilities: Keep container tightly closed in a dry and well-ventilated place. Storage class (TRGS 510): 13: Non Combustible Solids Specific end uses(s). Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures: Showers; Eye wash stations; Ventilation systems

Personal protective equipment Eye/face protection: Tightly fitting safety goggles. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin and body protection: Long-sleeved clothing. Protective gloves.

Respiratory protection: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	No information available	Odor	No information available
Odor Threshold	No information available	Physical State @ 20°C	Liquid
pH	No information available	Auto ignition temperature	No information available
Flash Point	No information available	Boiling point/boiling range	No information available
Decomposition Temperature	No information available	Flammability Limits in Air	No information available
Melting Point/range	No information available		
Explosion limits	No information available		
Specific Gravity	No data available		
Evaporation rate	No information available		
Vapor density	No data available		
Solubility:	No information available		
apor Pressure @ 20°C (kPa)	No information available		
VOC Content (%)	0.5		

10. STABILITY AND REACTIVITY

Stability Stable under recommended storage conditions.

Incompatible products None known based on information supplied.

Conditions to avoid None known based on information supplied.

VB-3024-3 Metanil Yellow Solution

Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides, Sodium oxides. Other decomposition products - No data available In the event of fire: see section 5

Hazardous polymerization

Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION**Toxicological effects/ acute toxicity**

LD50 Oral - Rat - > 2,000 mg/kg Remarks :(

External MSDS)

LD50 Dermal - Rat - > 2,000 mg/kg Remarks :

(External MSDS)

Skin corrosion/irritation

Skin- Rabbit

Result: No skin irritation Remarks :(

External MSDS)

Serious eye damage/eye irritation

Eyes-Rabbit Result: Eye

irritation

Remarks :(External MSDS)

Respiratory or skin sensitization Germ cell**mutagenicity**

No data available

Carcinogenicity

IARC: No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product presents at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No components of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity**Specific target organ toxicity - single exposure Specific target organ toxicity -****repeated exposure Aspiration hazard****Additional Information**

RTECS: DB7329500

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION**Ecotoxicity****Toxicity**

Toxicity to fish

LC50 - Poecilia reticulata (guppy) - 10 - 100 mg/l- 96 remarks :(External MSDS)

Persistence and degradability

Biodegradability

Result:-Not readily biodegradable.

Remarks :(External MSDS)

Bioaccumulative potential**Mobility in soil****Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

VB-3024-3 Metanil Yellow Solution

Other adverse effects

An environmental hazard can not be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life.

13.DISPOSAL CONSIDERATIONS

Waste disposal methods Dispose of in accordance with federal, state, and local regulations.

Contaminated packaging Do not re-use empty containers.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

14.TRANSPORT INFORMATION

DOT Not dangerous goods

IATA Not dangerous goods

ADR Not dangerous goods

15.REGULATORY INFORMATION

U.S.Federal Regulations

SARA313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA).This product does not contain anychemicalswhich are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA311/312 Hazard Categories

Acute Health Hazard	no
Chronic Health Hazard	no
Fire Hazard	no
Sudden Release of Pressure Hazard	no
Reactive Hazard	no

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

International Regulations

WHMIS Note:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contain all the information required by the

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

H314- Causes severe skin burns and eye damage H226 - Flammable liquid and vapor