1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Name: **Trichrome, McLetchie, Aniline Blue Stain Kit**
Part Number: 9177
CAS-No.: Not applicable
SDS Number: 6330

1.2 Recommended Use: Laboratory Chemicals

1.3 Company:
NEWCOMER SUPPLY
1020 PRAIRIE VIEW CT
WAUNAKEE WI 53597-8512
Telephone: 1-800-383-7799
Fax: 1-608-831-0866
Website: www.newcomersupply.com
Email: info@newcomersupply.com

24 HOUR EMERGENCY CONTACT
CALL CHEMTREC: 1-800-424-9300
Contact CHEMTREC only in the event of an emergency involving a chemical spill, leak, fire, exposure or other accident.

2. HAZARD(S) IDENTIFICATION

2.1 Classification of the substance or mixture
GHS Classification, (in accordance with 29 CFR1910.1200)
Flammable liquid, Category 2
Acute toxicity (oral), Category 4
Acute toxicity (dermal), Category 4
Acute toxicity (inhalation), Category 4
Serious eye damage, Category 1
Skin corrosion, Category 1
Specific Target Organ Toxicity – Single exposure, Category 2
Specific Target Organ Toxicity – Repeated exposure, Category 1

2.2 GHS Label elements
Signal Word DANGER

Pictogram

Hazard Statement(s):
- Highly flammable liquid and vapour
- Harmful if swallowed
- Harmful in contact with skin
- Harmful if inhaled
- Causes severe skin burns and eye damage
- May cause damage to organs
- Causes damage to organs through prolonged or repeated exposure

Precautionary Statement(s):
Prevention:
- Keep away from heat/sparks/open flames/hot surfaces – No smoking.
- Keep container tightly closed.
- Ground/bond container and receiving equipment.
- Use explosion-proof fume hood/electrical/ventilating/light equipment.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Wash skin thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Use only outdoors or in a well-ventilated area.
- Do not breathe dust/fume/gas/mist/vapours/spray.

Response:

· In case of fire use carbon dioxide, dry chemical or alcohol-resistant foam.
· IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
· IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
· Wash contaminated clothing before reuse.
· IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
· IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
· IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
· Specific treatment: see first aid measures in section 4.
· Immediately call a POISON CENTER or doctor/physician.

Storage:

· Store in a well ventilated place. Keep container tightly closed.
· Store locked up.

Disposal:

· Dispose of contents/ container to an approved waste disposal plant.

2.3 Description of any hazards not otherwise classified None

2.4 >1% of mixture with unknown acute toxicity None

3. COMPOSITION/INFORMATION ON INGREDIENTS

See component SDS

4. FIRST-AID MEASURES

See component SDS

5. FIRE-FIGHTING MEASURES

See component SDS

6. ACCIDENTAL RELEASE MEASURES

See component SDS

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Keep away from heat/sparks/open flames/hot surfaces – No smoking. Do not breathe dust/fume/gas/mist/vapours/spray.Wear protective gloves/protective clothing/eye protection/face protection.

7.2 Conditions for safe storage, including any incompatibilities

Refer to Section 2.2 for proper storage temperature. Store the tightly closed container in a cool, dry, well-ventilated area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

See component SDS

9. PHYSICAL AND CHEMICAL PROPERTIES

See component SDS

10. STABILITY AND REACTIVITY

See component SDS

11. TOXICOLOGICAL INFORMATION

See component SDS

12. ECOLOGICAL INFORMATION

See component SDS

13. DISPOSAL CONSIDERATIONS

See component SDS

14. TRANSPORT INFORMATION

14.1 DOT (US)

UN-Number	UN1170
Proper shipping name	Ethanol
	
Hazard class	3
Packing group	II
Environmental hazards	No data available

15. REGULATORY INFORMATION

See component SDS

16. OTHER INFORMATION

Preparation Information
Newcomer Supply Inc.
800-383-7799
www.newcomersupply.com

SAFETY DATA SHEET (SDS)

Revision Date: 1/5/2025
Version 1.7

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Name: **Trichrome, McLetchie, Aniline Blue Stain Kit, Sol'n A: Biebrich Scarlet-Acid Fuchsin Stain, Aqueous**

Part Number: 9177
CAS-No.: Not applicable
SDS Number: 2420

1.2 Recommended Use: Laboratory Chemicals

1.3 Company:
NEWCOMER SUPPLY
1020 PRAIRIE VIEW CT
WAUNAKEE WI 53597-8512
Telephone: 1-800-383-7799
Fax: 1-608-831-0866
Website: www.newcomersupply.com
Email: info@newcomersupply.com

24 HOUR EMERGENCY CONTACT
CALL CHEMTREC: 1-800-424-9300
Contact CHEMTREC only in the event of an emergency involving a chemical spill, leak, fire, exposure or other accident.

2. HAZARD(S) IDENTIFICATION

2.1 Classification of the substance or mixture
GHS Classification, (in accordance with 29 CFR1910.1200)
Skin irritation, Category 2
Serious Eye Damage/Eye irritation, Category 2

2.2 GHS Label elements
Signal Word WARNING

Pictogram

Hazard Statement(s):
- Causes serious eye irritation
- Causes skin irritation

Precautionary Statement(s):
Prevention:
- Wear protective gloves/protective clothing/eye protection/face protection.
- Wash skin thoroughly after handling.

Response:
- IF ON SKIN: Gently wash with soap and water.
- Take off contaminated clothing and wash before reuse.
- If skin irritation occurs: Get medical advice/attention.
- IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- If eye irritation persists get medical advice/attention.
- Specific treatment: see first aid measures in section 4.

2.3 Description of any hazards not otherwise classified None

2.4 >1% of mixture with unknown acute toxicity None

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixture
Hazardous Components

Component		Concentration
Name	Acetic Acid Glacial	
CAS-No.	64-19-7	1%
Name	Acid Fuchsin	
CAS-No.	3244-88-0	<1%

Name	Biebrich Scarlet	
CAS-No.	4195-99-0	<1%

4. FIRST-AID MEASURES

4.1 Description of necessary measures

Inhalation (breathing)
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

Skin Contact
IF ON SKIN: Gently wash with soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical advice/attention.

Eye Contact
IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists get medical advice/attention.

Ingestion (swallowed)
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Get medical advice/attention if you feel

4.2 Most important symptoms and or effects, acute and delayed
The most important symptoms/effects are presented in Section 2 and or Section 11.

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media
Carbon dioxide, dry chemical, water spray, alcohol-resistant foam.

5.2 Specific hazards arising from the substance or mixture
No data available

5.3 Protective equipment and precautions for fire-fighters
Wear a positive-pressure self-contained breathing apparatus if necessary. Wear chemical resistant clothing as recommended by clothing manufacturer.

NFPA Rating

Health hazard:	Fire hazard:	Reactivity hazard:
0	0	0

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Apply personal protective equipment (see Section 8). Use in a properly ventilated area. Avoid breathing vapors. Avoid skin contact. Avoid eye contact. Wash hands after use.

6.2 Methods and material for containment and cleaning up
Apply personal protective equipment (see Section 8). Contain spill. Prevent further leakage if possible and safe to do so. Ensure proper ventilation. For small amounts, wipe or absorb spill using inert material and dispose of according to local regulations. For large amounts, evacuate area and limit access. Prevent entry of material into sewage drains and confined areas. Dispose of any contaminated materials according to local regulations.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing.

7.2 Conditions for safe storage, including any incompatibilities

Refer to Section 2.2 for proper storage temperature. Store the tightly closed container in a cool, dry, well-ventilated area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

Components with limit values that require monitoring at the workplace

Component	CAS-No.	Regulatory	Value	Parameters
Glacial Acetic Acid	64-19-7	OSHA PEL	TWA	10 ppm (25 mg/m^3)
		ACGIH TLV	TWA	10 ppm (25 mg/m^3)
		ACGIH TLV	STEL	15 ppm (37 mg/m^3)
		NIOSH REL	TWA	10 ppm (25 mg/m^3)
		NIOSH REL	STEL	15 ppm (37 mg/m^3)
		CANADA/QC	TWA	10 ppm (25 mg/m^3)
		CANADA/QC	STEL	15 ppm (37 mg/m^3)
		CANADA/ON TWAEV	TWA	10 ppm (25 mg/m^3)
		CANADA/ON TWAEV	STEL	15 ppm (37 mg/m^3)
		CANADA/BC	TWA	10 ppm (25 mg/m^3)
		CANADA/BC	STEL	15 ppm (37 mg/m^3)
		CANADA/AB	TWA	10 ppm (25 mg/m^3)
		CANADA/AB	STEL	15 ppm (37 mg/m^3)

8.2 Exposure Controls

Appropriate engineering controls

Use in a properly ventilated area. Remove/wash before reuse contaminated clothing. Wash hands upon exiting work premises. Take measures to keep concentrations below acceptable limits.

8.3 Personal Protective Equipment

Eye/Face protection

Wear chemical safety goggles and/or a full face shield if splashing is possible. Keep eye wash fountain nearby.

Skin Protection

Wear chemical-resistant gloves. Gloves should be resistant to components of product. Refer to glove manufacturer for appropriate type and glove thickness.

Body Protection

No data available

Respiratory Protection

Respirators should only be used if the employer has a written program that takes into account workplace conditions, requirements for worker training, respirator fit testing, and medical exams as described in the OSHA Respiratory Protection Standard (29 CFR 1910.134).
Where the potential exists for exposure over 10 ppm: use a NIOSH approved full facepiece respirator with an organic vapor cartridge. Increased protection is obtained from full facepiece powered-air purifying respirators. If while wearing a filter or cartridge respirator you can smell, taste, or otherwise detect acetic acid, or if while wearing particulate filters abnormal resistance to breathing is experienced, or eye irritation occurs while wearing a full facepiece respirator, leave the area immediately. Check to make sure the respirator-to-face seal is still good. It if is, replace the filter or cartridge. If the seal is no longer good, you may need a new respirator.
Where the potential exists for exposure over 100 ppm, use a NIOSH approved supplied-air respirator with a full facepiece operated in a pressure-demand or other positive-pressure mode. For increased protection use in combination with an auxiliary self-contained breathing apparatus operated in a pressure-demand or other positive-pressure mode.
In case of emergency, entry into or escape from unknown concentrations, select the highest level approved respiratory protection available.

Other Information
None

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Opaque reddish-pink liquid; no precipitate
Odor	Mild vinegar odor
Odor threshold	No data available
pH	No data available
Melting point/freezing point	ca. 0°C (ca. 32°F)
Initial boiling point and boiling range	ca. 100°C (ca. 32°F)
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper flammability or explosive limits	No data available
Lower flammability or explosive limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	Similar to water
Solubility(ies)	Water soluble
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable in a closed container within label-specified storage temperature and expiration date.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong oxidizing agents (especially chromic acid, sodium peroxide and nitric acid), strong reducing agents, metals, strong acids, and strong bases.

10.6 Hazardous decomposition products
Carbon dioxide and carbon monoxide may be released if product is heated to decomposition.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Inhalation exposure
Human data (Glacial Acetic Acid): Marked irritation of the nose, and upper respiratory tract which could not be tolerated for more than 3 minutes was noted at 816 to 1,226 ppm.

Oral exposure
No data available

Dermal exposure
No data available

Skin corrosion/irritation
Contact with glacial acetic acid can severely irritate and burn the skin.

Serious eye damage/irritation
Contact with glacial acetic acid can severely irritate and burn the eyes, leading to eye damage.

Respiratory or skin sensitization
It has been stated that repeated exposures to high concentrations of glacial acetic acid may produce respiratory tract irritation with pharyngeal edema and chronic bronchitis.

Germ cell mutagenicity
No data available

Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Acute toxicity
Glacial Acetic Acid:
LD50 rat oral 3310 mg/kg
LD50 rabbit skin 1060uL/kg
LD50 mouse intravenous 525mg/kg
LC50 mouse inhalation 5620ppm/1H

Carcinogencity
IARC: None of the components are listed
NTP: None of the components are listed
OSHA: None of the components are listed

Additional information
RTECS: No data available

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Other adverse effects
No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste disposal methods

Contents
Dispose of contents in a safe manner to comply with local, state and federal regulations. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of packaging in a safe manner to comply with local, state and federal regulations. Contact a licensed professional waste disposal service to dispose of this material.

14. TRANSPORT INFORMATION

14.1 DOT (US)

UN-Number	Not regulated
Proper shipping name	Not regulated
Hazard class	Not regulated
Packing group	Not regulated
Environmental hazards	Not regulated

15. REGULATORY INFORMATION

15.1 Canadian Regulations
This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all information required by the HPR.

Canada DSL Inventory: Registration Status
Acetic Acid (64-19-7): LISTED
Acid Fuchsin - Benzenesulfonic acid, 2-amino-5-[(4-amino-3-sulfophenyl)(4-imino-3-sulfo-2,5-cyclohexadien-1-ylidene)methyl]-3-methyl-, disodium salt (3244-88-0): LISTED

Canada Environmental Emergency Regulations Schedule 1: Listed Substance
Acetic Acid (64-19-7): LISTED

Canada NPRI (Supplier Notification Required): Listed Substance
Not listed

Export Control List (CEPA, 1999, Schedule 3)
Not listed

Non-Regulatory Instruments
Not listed

Schedule 8 of the New Substances Notification Regulations (Chemicals and Polymers)

Not listed

16. OTHER INFORMATION

Preparation Information
Newcomer Supply Inc.
800-383-7799
www.newcomersupply.com

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Name: **Trichrome, McLetchie, Aniline Blue Stain Kit, Sol'n B: Iodine, Lugol's, Aqueous**
Part Number: 9177
CAS-No.: Not applicable
SDS Number: 3350

1.2 Recommended Use: Laboratory Chemicals

1.3 Company:
NEWCOMER SUPPLY
1020 PRAIRIE VIEW CT
WAUNAKEE WI 53597-8512
Telephone: 1-800-383-7799
Fax: 1-608-831-0866
Website: www.newcomersupply.com
Email: info@newcomersupply.com

24 HOUR EMERGENCY CONTACT
CALL CHEMTREC: 1-800-424-9300
Contact CHEMTREC only in the event of an emergency involving a chemical spill, leak, fire, exposure or other accident.

2. HAZARD(S) IDENTIFICATION

2.1 Classification of the substance or mixture
GHS Classification, (in accordance with 29 CFR1910.1200)
Skin irritation, Category 2
Serious Eye Damage/Eye irritation, Category 2
Acute toxicity (oral), Category 4
Acute toxicity (inhalation), Category 4
Acute toxicity (dermal), Category 4
Specific Target Organ Toxicity – Single exposure, Category 3
Specific Target Organ Toxicity – Repeated exposure, Category 1

2.2 GHS Label elements
Signal Word DANGER

Pictogram

Hazard Statement(s):
· Causes skin irritation
· Causes serious eye irritation
· Harmful if swallowed
· Harmful if inhaled
· Harmful in contact with skin
· May cause respiratory irritation
· May cause drowsiness or dizziness
· Causes damage to organs through prolonged or repeated exposure
Precautionary Statement(s):
Prevention:
· Wear protective gloves/protective clothing/eye protection/face protection.
· Wash skin thoroughly after handling.
· Do not eat, drink or smoke when using this product.
· Do not breathe dust/fume/gas/mist/vapors/spray.
· Use only outdoors or in a well-ventilated area.
Response:
· IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
· IF ON SKIN: Gently wash with soap and water.
· Take off contaminated clothing and wash before reuse.
· If skin irritation occurs: Get medical advice/attention.

- IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- If eye irritation persists get medical advice/attention.
- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- Rinse mouth.
- Specific treatment: see first aid measures in section 4.
- Call a POISON CENTER or doctor/physician if you feel unwell.

Storage:

- Store locked up.
- Store in a well ventilated place. Keep container tightly closed.

Disposal:

- Dispose of contents/ container to an approved waste disposal plant.

2.3 Description of any hazards not otherwise classified None

2.4 >1% of mixture with unknown acute toxicity None

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixture

Hazardous Components

Component		Concentration
Name	Iodine	
CAS-No.	7553-56-2	1%
Name	Potassium Iodide	
CAS-No.	7681-11-0	2%

4. FIRST-AID MEASURES

4.1 Description of necessary measures

Inhalation (breathing)

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin Contact

IF ON SKIN: Gently wash with soap and water. Take off contaminated clothing and wash before reuse. If eye irritation persists get medical advice/attention.

Eye Contact

IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists get medical advice/attention.

Ingestion (swallowed)

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

4.2 Most important symptoms and or effects, acute and delayed

The most important symptoms/effects are presented in Section 2 and or Section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

Carbon dioxide, dry chemical, water spray, alcohol-resistant foam.

5.2 Specific hazards arising from the substance or mixture

No data available

5.3 Protective equipment and precautions for fire-fighters

Wear a positive-pressure self-contained breathing apparatus if necessary. Wear chemical resistant clothing as recommended by clothing manufacturer.

NFPA Rating

Health hazard:	2	Fire hazard:	0	Reactivity hazard:	0

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Apply personal protective equipment (see Section 8). Use in a properly ventilated area. Avoid breathing vapors. Avoid skin contact. Avoid eye contact. Wash hands after use. In case of large spill, remove personnel to a safe area.

6.2 Methods and material for containment and cleaning up

Apply personal protective equipment (see Section 8). Contain spill. Prevent further leakage if possible and safe to do so. Ensure proper ventilation. For small amounts, wipe or absorb spill using inert material and dispose of according to local regulations. For large amounts, evacuate area and limit access. Prevent entry of material into sewage drains and confined areas. Dispose of any contaminated materials according to local regulations.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing.

7.2 Conditions for safe storage, including any incompatibilities

Refer to Section 2.2 for proper storage temperature. Store the tightly closed container in a cool, dry, well-ventilated area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

Components with limit values that require monitoring at the workplace

Component	CAS-No.	Regulatory	Value	Parameters
Iodine	7553-56-2	NIOSH REL	C	0.1 ppm (1 mg/m^3)
		OSHA PEL	C	0.1 ppm (1 mg/m^3)
		ACGIH TLV	C	0.1 ppm (1 mg/m^3)
		CANADA/QC OEL	C	0.1 ppm (1 mg/m^3)
		CANADA/ON OEL	CEV	0.1 ppm (1 mg/m^3)
		CANADA/BC OEL	C	0.1 ppm
		CANADA/AB	C	0.1 ppm (1 mg/m^3)

8.2 Exposure Controls

Appropriate engineering controls

Use in a properly ventilated area. Remove/wash before reuse contaminated clothing. Wash hands upon exiting work premises. Take measures to keep concentrations below acceptable limits.

8.3 Personal Protective Equipment

Eye/Face protection

Wear chemical safety goggles and/or a full face shield if splashing is possible. Keep eye wash fountain nearby.

Skin Protection

Wear chemical-resistant gloves. Gloves should be resistant to components of product. Refer to glove manufacturer for appropriate type and glove thickness.

Body Protection
No data available

Respiratory Protection

Respirators should only be used if the employer has implemented a written program that takes into account workplace conditions, requirements for worker training, respirator fit testing, and medical exams, as described in the OSHA Respiratory Protection Standard (29 CFR 1910.134).
Iodine: Where the potential exists for exposure over 0.01 ppm: (as the inhalable fraction and vapor), use a NIOSH approved supplied-air respirator with a full facepiece operated in a pressure-demand or other positive-pressure mode. Forincreased protection use in combination with an auxiliary self-contained breathing apparatus or an emergency escape air cylinder.
Exposure to 2 ppm is immediately dangerous to life and health. If the possibility of exposure above 2 ppm exists, use a NIOSH approved self-contained breathing apparatus with a full facepiece operated in a pressure-demand or other positive-pressure mode equipped with an emergency escape air cylinder.
In case of emergency, entry into or escape from unknown concentrations, select the highest level approved respiratory protection available.

Other Information
None

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Translucent, brown liquid; no precipitate
Odor	Odorless
Odor threshold	No data available
pH	No data available
Melting point/freezing point	ca. 0°C (ca. 32°F)
Initial boiling point and boiling range	ca. 100°C (ca. 32°F)
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper flammability or explosive limits	No data available
Lower flammability or explosive limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	Similar to water
Solubility(ies)	Water soluble
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable in a closed container within label-specified storage temperature and expiration date.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Iodine reacts violently or explosively with acetylene; acetaldehyde; metal azides; metal hydrides; and metal carbides. Iodine forms explosive or shock-sensitive compounds when mixed with reducing agents (such as lithium, sodium, aluminum and their hydrides) and liquid ammonia. Iodine will ignite powdered metals (such as antimony, magnesium and zinc) in the presence of water. Iodine is not compatible with combustibles; strong bases (such as sodium hydroxide and potassium hydroxide); halogens (such as chlorine, bromine and chlorine trifluoride); and ethanol.

10.6 Hazardous decomposition products
Hydrogen iodide gas, iodine gas, and potassium oxides. May also produce irritating and toxic fumes when heated.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Inhalation exposure
Inhaling iodine can irritate the lungs causing coughing and/or shortness of breath.

Oral exposure
No data available

Dermal exposure
No data available

Skin corrosion/irritation
Contact with iodine and potassium iodide can severely irritate the skin.

Serious eye damage/irritation
Contact with iodine and potassium iodide can severely irritate the eyes.

Respiratory or skin sensitization
No data available

Germ cell mutagenicity
No data available

Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
Inhaling iodine can irritate the lungs causing coughing and/or shortness of breath.

Specific target organ toxicity - repeated exposure
Iodine may cause thyroid gland disturbances. Medical examination advised after repeated exposure.

Aspiration hazard
No data available

Acute toxicity

Iodine:
LD50 rat oral 14000 mg/kg
LD50 rabbit dermal 2000 mg/kg
LC50 rat inhalation 4.588 mg/l/4 hours
Potassium Iodide:
LD50 mouse oral 1000 mg/kg

Carcinogencity
IARC: None of the components are listed
NTP: None of the components are listed
OSHA: None of the components are listed

Additional information
RTECS: No data available

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Other adverse effects
No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste disposal methods
Contents
Dispose of contents in a safe manner to comply with local, state and federal regulations. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of packaging in a safe manner to comply with local, state and federal regulations. Contact a licensed professional waste disposal service to dispose of this material.

14. TRANSPORT INFORMATION

14.1 DOT (US)

UN-Number	Not regulated
Proper shipping name	Not regulated
Hazard class	Not regulated
Packing group	Not regulated
Environmental hazards	Not regulated

15. REGULATORY INFORMATION

15.1 Canadian Regulations
This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all information required by the HPR.

Canada DSL Inventory: Registration Status

Iodine (7553-56-2): LISTED
Potassium Iodide (7681-11-0): LISTED

Canada Environmental Emergency Regulations Schedule 1: Listed Substance
Not listed

Canada NPRI (Supplier Notification Required): Listed Substance
Not listed

Export Control List (CEPA, 1999, Schedule 3)
Not listed

Non-Regulatory Instruments
Not listed

Schedule 8 of the New Substances Notification Regulations (Chemicals and Polymers)
Not listed

16. OTHER INFORMATION

Preparation Information
Newcomer Supply Inc.
800-383-7799
www.newcomersupply.com

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Name: **Trichrome, McLetchie, Aniline Blue Stain Kit, Sol'n C: Phosphotungstic Acid 2%, Alcoholic**

Part Number: 9177
CAS-No.: Not applicable
SDS Number: 3940

1.2 Recommended Use: Laboratory Chemicals

1.3 Company:
NEWCOMER SUPPLY
1020 PRAIRIE VIEW CT
WAUNAKEE WI 53597-8512
Telephone: 1-800-383-7799
Fax: 1-608-831-0866
Website: www.newcomersupply.com
Email: info@newcomersupply.com

24 HOUR EMERGENCY CONTACT
CALL CHEMTREC: 1-800-424-9300
Contact CHEMTREC only in the event of an emergency involving a chemical spill, leak, fire, exposure or other accident.

2. HAZARD(S) IDENTIFICATION

2.1 Classification of the substance or mixture
GHS Classification, (in accordance with 29 CFR1910.1200)
Flammable liquid, Category 2
Acute toxicity (oral), Category 4
Acute toxicity (dermal), Category 4
Acute toxicity (inhalation), Category 4
Serious eye damage, Category 1
Skin corrosion, Category 1
Specific Target Organ Toxicity – Single exposure, Category 2

2.2 GHS Label elements
Signal Word DANGER

Pictogram

Hazard Statement(s):
· Highly flammable liquid and vapour
· Harmful if swallowed
· Harmful in contact with skin
· Harmful if inhaled
· Causes severe skin burns and eye damage
· May cause damage to organs
Precautionary Statement(s):
Prevention:
· Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
· Keep container tightly closed.
· Ground and bond container and receiving equipment.
· Use explosion-proof fume hood/electrical/ventilating/light/equipment.
· Use only non-sparking tools.
· Take precautionary measures against static discharge.
· Wear protective gloves/protective clothing/eye protection/face protection.
· Wash skin thoroughly after handling.
· Do not eat, drink or smoke when using this product.
· Use only outdoors or in a well-ventilated area.
· Do not breathe dust/fume/gas/mist/vapors/spray.
Response:

· In case of fire use carbon dioxide, dry chemical or alcohol-resistant foam.
· IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
· IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water [or shower].
· Wash contaminated clothing before reuse.
· IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
· IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
· IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
· Specific treatment: see first aid measures in section 4.
· Immediately call a POISON CENTER or doctor/physician.

Storage:

· Store in a well ventilated place. Keep cool.
· Store locked up.

Disposal:

· Dispose of contents/ container to an approved waste disposal plant.

2.3 Description of any hazards not otherwise classified None

2.4 >1% of mixture with unknown acute toxicity None

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixture

Hazardous Components

Component		Concentration
Name	Ethyl Alcohol	
CAS-No.	64-17-5	60-70%
Name	Methyl Alcohol	
CAS-No.	67-56-1	2-4%
Name	Isopropyl Alcohol	
CAS-No.	67-63-0	2-4%
Name	Phosphotunstic Acid	
CAS-No.	12501-23-4	2%

4. FIRST-AID MEASURES

4.1 Description of necessary measures

Inhalation (breathing)

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

Skin Contact

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Immediately call a POISON CENTER or doctor/physician.

Eye Contact

IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

Ingestion (swallowed)

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

4.2 Most important symptoms and or effects, acute and delayed

The most important symptoms/effects are presented in Section 2 and or Section 11.

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media
Carbon dioxide, dry chemical, water spray, alcohol-resistant foam.

5.2 Specific hazards arising from the substance or mixture
No data available

5.3 Protective equipment and precautions for fire-fighters
Wear a positive-pressure self-contained breathing apparatus if necessary. Wear chemical resistant clothing as recommended by clothing manufacturer.

NFPA Rating

Health hazard:	2	Fire hazard:	3	Reactivity hazard:	0

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Apply personal protective equipment (see Section 8). Use in a properly ventilated area. Avoid breathing vapors. Avoid skin contact. Avoid eye contact. Wash hands after use. In case of large spill, remove personnel to a safe area. Keep product away from heat, flame, ignition sources, and reactive materials. Avoid accumulation of vapor to form explosive concentration. Pay particular attention to low areas where vapor accumulates more easily.

6.2 Methods and material for containment and cleaning up
Apply personal protective equipment (see Section 8). Contain spill. Prevent further leakage if possible and safe to do so. Ensure proper ventilation. For small amounts, wipe or absorb spill using inert material and dispose of according to local regulations. For large amounts, evacuate area and limit access. Prevent entry of material into sewage drains and confined areas. Dispose of any contaminated materials according to local regulations. Eliminate sources of ignition.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Keep away from heat/sparks/open flames/hot surfaces – No smoking. Do not breathe dust/fume/gas/mist/vapours/spray.Wear protective gloves/protective clothing/eye protection/face protection.

7.2 Conditions for safe storage, including any incompatibilities
Refer to Section 2.2 for proper storage temperature. Store the tightly closed container in a cool, dry, well-ventilated area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters
Components with limit values that require monitoring at the workplace

Component	CAS-No.	Regulatory	Value	Parameters
Ethyl Alcohol	64-17-5	OSHA PEL	TWA	1000 ppm (1900 mg/m^3)
		ACGIH TLV	TWA	1000 ppm (1880 mg/m^3)
		NIOSH REL	TWA	1000 ppm (1900 mg/m^3)
		CANADA/ON TWAEV	STEL	1000 ppm (1880 mg/m^3)
		CANADA/QC	STEL	1000 ppm (1880 mg/m^3)

		CANADA/AB	TWA	1000 ppm (1880 mg/m^3)
		CANADA/BC	STEL	1000 ppm

Component	CAS-No.	Regulatory	Value	Parameters
Methyl Alcohol	67-56-1	OSHA PEL	TWA	200 ppm (980 mg/m^3)
		ACGIH TLV	STEL	200 ppm (1,230 mg/m^3)
		ACGIH TLV	STEL	50 ppm (1,230 mg/m^3)
		NIOSH REL	TWA	200 ppm (980 mg/m^3)
		NIOSH REL	STEL	250 ppm (980 mg/m^3)
		CANADA NTNL - OEL	TWA	200 ppm (262 mg/m^3) 8 hr
		CANADA NTNL - OEL	STEL	250 ppm (328 mg/m^3) 15 min

Component	CAS-No.	Regulatory	Value	Parameters
Isopropyl Alcohol	67-63-0	OSHA PEL	TWA	400 ppm (980 mg/m^3)
		ACGIH TLV	TWA	400 ppm (983 mg/m^3)
		ACGIH TLV	STEL	500 ppm (1,230 mg/m^3)
		NIOSH REL	TWA	400 ppm (980 mg/m^3)
		NIOSH REL	STEL	500 ppm (980 mg/m^3)
		CANADA/ON TWAEV	TWA	200 ppm
		CANADA/ON TWAEV	STEL	400 ppm
		CANADA/QC	TWA	400 ppm (980 mg/m^3)
		CANADA/QC	STEL	500 ppm (1230 mg/m^3)
		CANADA/BC	TWA	200 ppm
		CANADA/BC	STEL	400 ppm
		CANADA/AB	TWA	200 ppm (492 mg/m^3)
		CANADA/AB	STEL	400 ppm (984 mg/m^3)

Component	CAS-No.	Regulatory	Value	Parameters
Phosphotungstic Acid	12501-23-4	ACGIH	TWA	5 mg/m^3 (as a tungsten soluble compound)
		ACGIH	STEL	0.10 mg/m^3 (as a tungsten soluble compound)
		CANADA/ON TWAEV	TWA	3 mg/m^3
		CANADA/QC	TWA	5 mg/m^3
		CANADA/QC	STEL	10 mg/m^3
		CANADA/BC	TWA	5 mg/m^3
		CANADA/BC	STEL	10 mg/m^3
		CANADA/AB	TWA	5 mg/m^3
		CANADA/AB	STEL	10 mg/m^3

8.2 Exposure Controls

Appropriate engineering controls

Use in a properly ventilated area. Remove/wash before reuse contaminated clothing. Wash hands upon exiting work premises. Use product in an appropriately designated fume hood. Take measures to keep concentrations below acceptable limits.

8.3 Personal Protective Equipment

Eye/Face protection

Wear chemical safety goggles and/or a full face shield if splashing is possible. Keep eye wash fountain nearby.

Skin Protection
Wear chemical-resistant gloves. Gloves should be resistant to components of product. Refer to glove manufacturer for appropriate type and glove thickness.

Body Protection
No data available

Respiratory Protection
Respirators should only be used if the employer has implemented a written program that takes into account workplace conditions, requirements for worker training, respirator fit testing, and medical exams, as described in the OSHA Respiratory Protection Standard (29 CFR 1910.134).
Ethyl Alcohol: Where the potential exists for exposure over 1,000 ppm: use a NIOSH approved supplied-air respirator with a full facepiece operated in a pressure-demand or other positive-pressure mode. For increased protection use in combination with an auxiliary self-contained breathing apparatus or an emergency escape air cylinder.
Exposure to 3,300 ppm is immediately dangerous to life and health. If the possibility of exposure above 3,300 ppm exists, use a NIOSH approved self-contained breathing apparatus with a full facepiece operated in a pressure-demand or other positive-pressure mode equipped with an emergency escape air cylinder.
In case of emergency, entry into or escape from unknown concentrations select the highest level approved respiratory protection available.

Other Information
None

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Clear, colorless solution
Odor	Alcoholic odor
Odor threshold	No data available
pH	No data available
Melting point/freezing point	-114°C (-173.2°F)
Initial boiling point and boiling range	78-80°C (172-176°F)
Flash point	13°C (55.4°F) Closed cup
Evaporation rate	1.7 (Ethyl Alcohol)
Flammability (solid, gas)	Liquid is flammable
Upper flammability or explosive limits	19%
Lower flammability or explosive limits	3%
Vapor pressure	No data available
Vapor density	1.6 (Ethyl Alcohol)
Relative density	0.789
Solubility(ies)	Miscible with water and many organic liquids
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable in a closed container within label-specified storage temperature and expiration date.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
Heat, sparks, open flame, and ignition sources.

10.5 Incompatible materials
Ethyl alcohol: Strong oxidizers, potassium dioxide, bromine pentafluoride, acetyl bromide, acetyl chloride, platinum, sodium concentrated sulfuric acid, potassium and hydrogen peroxides, platinum black, calcium hypochlorite, silver oxide, ammonia, nitric acid, mercuric nitrate, silver nitrate, magnesium perchlorate, isocyanates, mineral acids, and chloroform.

10.6 Hazardous decomposition products
Carbon dioxide and carbon monoxide may be released if product is heated to decomposition.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Inhalation exposure
Inhaling ethyl alcohol, methyl alcohol, and isopropyl alcohol can irritate the nose, throat and lungs causing coughing and/or shortness of breath.

Oral exposure
Oral exposure to ethyl alcohol, methyl alcohol, and isopropyl alcohol can cause headache, drowsiness, nausea and vomiting, and unconsciousness. It can also affect concentration and vision.

Dermal exposure
Contact with ethyl alcohol, methyl alcohol, and isopropyl alcohol can irritate the skin.

Skin corrosion/irritation
Prolonged or repeated exposure to ethyl alcohol can cause drying and cracking of the skin with peeling, redness and itching.

Serious eye damage/irritation
Contact with ethyl alcohol, methyl alcohol, and isopropyl alcohol can irritate the eyes.

Respiratory or skin sensitization
No data available

Germ cell mutagenicity
No data available

Reproductive toxicity
Repeated oral exposure to ethyl alcohol may cause spontaneous abortions, as well as birth defects and other developmental problems. This condition is referred to as “fetal alcohol syndrome." There is limited evidence that oral exposure to ethyl alcohol may decrease fertility in males.

Specific target organ toxicity - single exposure
Exposure to ethyl alcohol may affect the liver and the nervous system.

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Acute toxicity

Ethyl Alcohol:
LD50 rat oral 3450 mg/kg
LD50 mouse oral 7060 mg/kg
LC50 rat inhalation 20000 ppm/10H
LC50 mouse inhalation 20363 ppm/4H
Phosphotungstic Acid:
LD50 rat oral 3300 mg/kg

Carcinogencity
IARC: None of the components are listed
NTP: None of the components are listed
OSHA: None of the components are listed

Additional information
RTECS: No data available

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Other adverse effects
No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste disposal methods
Contents
Dispose of contents in a safe manner to comply with local, state and federal regulations. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of packaging in a safe manner to comply with local, state and federal regulations. Contact a licensed professional waste disposal service to dispose of this material.

14. TRANSPORT INFORMATION

14.1 DOT (US)

UN-Number	UN1170
Proper shipping name	Ethanol Solutions

Hazard class	3
Packing group	II
Environmental hazards	No data available

15. REGULATORY INFORMATION

15.1 Canadian Regulations

This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all information required by the HPR.

Canada DSL Inventory: Registration Status
Ethyl Alcohol (64-17-5): LISTED
Methyl Alcohol (67-56-1): LISTED
Isopropyl Alcohol (67-63-0): LISTED
Phosphotungstic Acid - Tungstate(3-), tetracosa-μ-oxododecaoxo[μ12-[phosphato(3-)-O:O:O:O':O':O':O'':O'':O'':O''':O''']]dodeca-, trihydrogen (1343-93-7): LISTED

Canada Environmental Emergency Regulations Schedule 1: Listed Substance
Not listed

Canada NPRI (Supplier Notification Required): Listed Substance
Ethyl Alcohol (64-17-5): LISTED
Methyl Alcohol (67-56-1): LISTED
Isopropyl Alcohol (67-63-0): LISTED

Export Control List (CEPA, 1999, Schedule 3)
Not listed

Non-Regulatory Instruments
Not listed

Schedule 8 of the New Substances Notification Regulations (Chemicals and Polymers)
Not listed

16. OTHER INFORMATION

Preparation Information
Newcomer Supply Inc.
800-383-7799
www.newcomersupply.com

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Name: **Trichrome, McLetchie, Aniline Blue Stain Kit, Sol'n D: Aniline Blue Stain, Aqueous**

Part Number: 9177
CAS-No.: Not applicable
SDS Number: 2340

1.2 Recommended Use: Laboratory Chemicals

1.3 Company:
NEWCOMER SUPPLY
1020 PRAIRIE VIEW CT
WAUNAKEE WI 53597-8512
Telephone: 1-800-383-7799
Fax: 1-608-831-0866
Website: www.newcomersupply.com
Email: info@newcomersupply.com

24 HOUR EMERGENCY CONTACT
CALL CHEMTREC: 1-800-424-9300
Contact CHEMTREC only in the event of an emergency involving a chemical spill, leak, fire, exposure or other accident.

2. HAZARD(S) IDENTIFICATION

2.1 Classification of the substance or mixture
GHS Classification, (in accordance with 29 CFR1910.1200)
Skin irritation, Category 2
Serious Eye Damage/Eye irritation, Category 2

2.2 GHS Label elements
Signal Word WARNING

Pictogram

Hazard Statement(s):
· Causes serious eye irritation
· Causes skin irritation
Precautionary Statement(s):
Prevention:
· Wear protective gloves/protective clothing/eye protection/face protection.
· Wash skin thoroughly after handling.
Response:
· IF ON SKIN: Gently wash with soap and water.
· Take off contaminated clothing and wash before reuse.
· If skin irritation occurs: Get medical advice/attention.
· IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
· If eye irritation persists get medical advice/attention.
· Specific treatment: see first aid measures in section 4.

2.3 Description of any hazards not otherwise classified None

2.4 >1% of mixture with unknown acute toxicity None

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixture
Hazardous Components

Component		Concentration
Name	Acetic Acid Glacial	
CAS-No.	64-19-7	1%

4. FIRST-AID MEASURES

4.1 Description of necessary measures

Inhalation (breathing)
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

Skin Contact
IF ON SKIN: Gently wash with soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical advice/attention.

Eye Contact
IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists get medical advice/attention.

Ingestion (swallowed)
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Rinse mouth.

4.2 Most important symptoms and or effects, acute and delayed
The most important symptoms/effects are presented in Section 2 and or Section 11.

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media
Carbon dioxide, dry chemical, water spray, alcohol-resistant foam.

5.2 Specific hazards arising from the substance or mixture
No data available

5.3 Protective equipment and precautions for fire-fighters
Wear a positive-pressure self-contained breathing apparatus if necessary. Wear chemical resistant clothing as recommended by clothing manufacturer.

NFPA Rating

Health hazard:	1	Fire hazard:	0	Reactivity hazard:	0

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Apply personal protective equipment (see Section 8). Use in a properly ventilated area. Avoid breathing vapors. Avoid skin contact. Avoid eye contact. Wash hands after use.

6.2 Methods and material for containment and cleaning up
Apply personal protective equipment (see Section 8). Contain spill. Prevent further leakage if possible and safe to do so. Ensure proper ventilation. For small amounts, wipe or absorb spill using inert material and dispose of according to local regulations. For large amounts, evacuate area and limit access. Prevent entry of material into sewage drains and confined areas. Dispose of any contaminated materials according to local regulations.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing.

7.2 Conditions for safe storage, including any incompatibilities

Refer to Section 2.2 for proper storage temperature. Store the tightly closed container in a cool, dry, well-ventilated area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

Components with limit values that require monitoring at the workplace

Component	CAS-No.	Regulatory	Value	Parameters
Acetic Acid	64-19-7	OSHA PEL	TWA	10 ppm (25 mg/m^3)
		ACGIH TLV	TWA	10 ppm (25 mg/m^3)
		ACGIH TLV	STEL	15 ppm (37 mg/m^3)
		NIOSH REL	TWA	10 ppm (25 mg/m^3)
		NIOSH REL	STEL	15 ppm (37 mg/m^3)
		CANADA/QC	TWA	10 ppm (25 mg/m^3)
		CANADA/QC	STEL	15 ppm (37 mg/m^3)
		CANADA/ON TWAEV	TWA	10 ppm (25 mg/m^3)
		CANADA/ON TWAEV	STEL	15 ppm (37 mg/m^3)
		CANADA/BC	TWA	10 ppm (25 mg/m^3)
		CANADA/BC	STEL	15 ppm (37 mg/m^3)
		CANADA/AB	TWA	10 ppm (25 mg/m^3)
		CANADA/AB	STEL	15 ppm (37 mg/m^3)

8.2 Exposure Controls

Appropriate engineering controls

Use in a properly ventilated area. Remove/wash before reuse contaminated clothing. Wash hands upon exiting work premises. Take measures to keep concentrations below acceptable limits.

8.3 Personal Protective Equipment

Eye/Face protection

Wear chemical safety goggles and/or a full face shield if splashing is possible. Keep eye wash fountain nearby.

Skin Protection

Wear chemical-resistant gloves. Gloves should be resistant to components of product. Refer to glove manufacturer for appropriate type and glove thickness.

Body Protection

No data available

Respiratory Protection

Respirators should only be used if the employer has a written program that takes into account workplace conditions, requirements for worker training, respirator fit testing, and medical exams as described in the OSHA Respiratory Protection Standard (29 CFR 1910.134).
Where the potential exists for exposure over 10 ppm: use a NIOSH approved full facepiece respirator with an organic vapor cartridge. Increased protection is obtained from full facepiece powered-air purifying respirators. If while wearing a filter or cartridge respirator you can smell, taste, or otherwise detect acetic acid, or if while wearing particulate filters abnormal resistance to breathing is experienced, or eye irritation occurs while wearing a full facepiece respirator, leave the area immediately. Check to make sure the respirator-to-face seal is still good. It if is, replace the filter or cartridge. If the seal is no longer good, you may need a new respirator.
Where the potential exists for exposure over 100 ppm, use a NIOSH approved supplied-air respirator with a full facepiece operated in a pressure-demand or other positive-pressure mode. For increased protection use in combination with an auxiliary self-contained breathing apparatus operated in a pressure-demand or other positive-pressure mode.
In case of emergency, entry into or escape from unknown concentrations, select the highest level approved respiratory protection available.

Other Information
None

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Colorless liquid
Odor	Mild vinegar odor
Odor threshold	No data available
pH	No data available
Melting point/freezing point	ca. 0°C (ca. 32°F)
Initial boiling point and boiling range	ca. 100°C (ca. 32°F)
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper flammability or explosive limits	No data available
Lower flammability or explosive limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Solubility(ies)	Infinitely soluble with water
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable in a closed container within label-specified storage temperature and expiration date.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Strong oxidizing agents (especially chromic acid, sodium peroxide and nitric acid), strong reducing agents, metals, strong acids, and strong bases.

10.6 Hazardous decomposition products

Carbon dioxide and carbon monoxide may be released if product is heated to decomposition.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Inhalation exposure

Human data (Glacial Acetic Acid): Marked irritation of the eyes, nose, and upper respiratory tract which could not be tolerated for more than 3 minutes was noted at 816 to 1,226 ppm.

Oral exposure

No data available

Dermal exposure

No data available

Skin corrosion/irritation

Contact with glacial acetic acid can severely irritate and burn the skin.

Serious eye damage/irritation

Contact can severely irritate and burn the eyes, leading to eye damage.

Respiratory or skin sensitization

Glacial Acetic Acid: It has been stated that repeated exposures to high concentrations may produce respiratory tract irritation with pharyngeal edema and chronic bronchitis.

Germ cell mutagenicity

No data available

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Acute toxicity

Glacial Acetic Acid:

LD50 rat oral 3310 mg/kg

LD50 rabbit skin 1060uL/kg

LD50 mouse intravenous 525mg/kg

LC50 mouse inhalation 5620ppm/1H

Carcinogencity

IARC: None of the components are listed
NTP: None of the components are listed
OSHA: None of the components are listed

Additional information

RTECS: No data available

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Other adverse effects
No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste disposal methods

Contents
Dispose of contents in a safe manner to comply with local, state and federal regulations. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of packaging in a safe manner to comply with local, state and federal regulations. Contact a licensed professional waste disposal service to dispose of this material.

14. TRANSPORT INFORMATION

14.1 DOT (US)

UN-Number	Not regulated
Proper shipping name	Not regulated
Hazard class	Not regulated
Packing group	Not regulated
Environmental hazards	Not regulated

15. REGULATORY INFORMATION

15.1 Canadian Regulations
This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all information required by the HPR.

Canada DSL Inventory: Registration Status
Acetic Acid (64-19-7): LISTED

Canada Environmental Emergency Regulations Schedule 1: Listed Substance
Acetic Acid (64-19-7): LISTED

Canada NPRI (Supplier Notification Required): Listed Substance
Not listed

Export Control List (CEPA, 1999, Schedule 3)
Not listed

Non-Regulatory Instruments
Not listed

Schedule 8 of the New Substances Notification Regulations (Chemicals and Polymers)

Not listed

16. OTHER INFORMATION

Preparation Information
Newcomer Supply Inc.
800-383-7799
www.newcomersupply.com