

Revision Date: 1/11/2025

Version 1.6

1. PRODUCT AND COMPANY IDENTIFICATION

Part Number: 9168

1.1 Product Name: Reticulum, Gordon & Sweets Stain Kit

Part Number: 9168

CAS-No.: Not applicable

SDS Number: 6270

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.comEmail: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 corrosion, Category 1

Serious eye damage, Category 1

Acute toxicity (oral), Category 4

Acute toxicity (inhalation), Category 4

Corrosive to metals, Category 1

Skin sensitisation, Category 1

Germ cell mutagenicity, Category 2

Carcinogenicity, Category 1A

Specific Target Organ Toxicity – Single exposure, Category 1

2.2 GHS Label elements

Signal Word DANGER

Pictogram



Hazard Statement(s):

- · Causes severe skin burns and eye damage
- · Harmful if swallowed
- · Harmful if inhaled
- · May be corrosive to metals
- · May cause an allergic skin reaction
- · Suspected of causing genetic defects
- · May cause cancer
- · Causes damage to organs

Precautionary Statement(s):

Prevention:

- · Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- · Keep only in original container.
- · Do not breathe dust/fume/gas/mist/vapours/spray.
- · Wash skin thoroughly after handling.
- · Wear protective gloves/protective clothing/eye protection/face protection.
- \cdot Do not eat, drink or smoke when using this product.
- · Use only outdoors or in a well-ventilated area.
- · Contaminated work clothing should not be allowed out of the workplace.

Response:



Revision Date: 1/11/2025

Part Number: 9168 Version 1.6

- · Absorb spillage to prevent material damage.
- · 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 skin irritation or a rash occurs: Get medical advice/attention.
- 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: Immediately call a POISON CENTER or doctor/physician.
- · Specific treatment: see first aid measures in section 4.
- · Immediately call a POISON CENTER or doctor/physician.

Storage:

- · Store locked up.
- · Store in a corrosive resistant container/container with a resistant inner liner.

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

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

See component SDS

9. PHYSICAL AND CHEMICAL PROPERTIES

See component SDS

10. STABILITY AND REACTIVITY

See component SDS

11. TOXICOLOGICAL INFORMATION

See component SDS



Revision Date: 1/11/2025

Version 1.6

12. ECOLOGICAL INFORMATION

Part Number: 9168

See component SDS

13. DISPOSAL CONSIDERATIONS

See component SDS

14. TRANSPORT INFORMATION

14.1 DOT (US)

UN-Number No data available
Proper shipping name No data available
Hazard class No data available
Packing group No data available
Environmental hazards No data available

15. REGULATORY INFORMATION

See component SDS

16. OTHER INFORMATION

Preparation Information Newcomer Supply Inc. 800-383-7799

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Revision Date: 1/3/2024

Version 1.7

1. PRODUCT AND COMPANY IDENTIFICATION

Part Number: 9168

Reticulum, Gordon & Sweets Stain Kit, Sol'n A: Potassium Permanganate 1%, 1.1 Product Name:

Aqueous

Part Number: 9168

CAS-No.: Not applicable

SDS Number: 4090

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

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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)

Acute toxicity (oral), Category 4 Acute aquatic toxicity, Category 2 Chronic aquatic toxicity, Category 2

2.2 GHS Label elements

Signal Word WARNING

Pictogram



Hazard Statement(s):

- · Harmful if swallowed
- · Toxic to aquatic life with lasting effects

Precautionary Statement(s):

Prevention:

- · Wash skin thoroughly after handling.
- · Do not eat, drink or smoke when using this product.
- · Avoid release to the environment.

Response:

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

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	Potassium Permanganate	
CAS-No.	7722-64-7	1%

4. FIRST-AID MEASURES



Revision Date: 1/3/2024

Version 1.7

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

Part Number: 9168

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Get medical advice/attention if you feel unwell.

Eye Contact

IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Get medical advice/attention if you feel unwell.

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 Fire Reactivity

hazard: 1 hazard: 0 hazard: 0 Other Oxidizer

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



Revision Date: 1/3/2024

Version 1.7

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

Part Number: 9168

Components with limit values that require monitoring at the workplace

		•		
Component	CAS-No.	Regulatory	Value	Parameters
Potassium				
Permanganate	7722-64-7	OSHA PEL	TWA	5 mg/m ³
		ACGIH TLV	TWA	0.03 mg/m ³
		NIOSH REL	TWA	1 mg/m ³
		NIOSH REL	STEL	3 mg/m ³
		CANADA/QC	TWA	0.2 mg/m ³
		CANADA/ON	TWA	0.2 mg/m ³
		CANADA/BC	TWA	0.2 mg/m ³
		CANADA/AB	TWA	0.2 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 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).

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 Purple liquid Odor Odorless

Odor threshold No data available



Revision Date: 1/3/2024

Version 1.7

pH No data available

Melting point/freezing point -2°C (28°F) Initial boiling point and boiling range 102°C (215 °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

Solubility(ies) Completely water soluble

Partition coefficient: n-octanol/water

Auto-ignition temperature

Decomposition temperature

Viscosity

No data available

No data available

No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

Part Number: 9168

No data available

Relative density

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

Potassium permanganate in contact with certain sulfoxides; aldehydes; strong acids (such as hydrochloric, sulfuric and nitric); amines; or glycols may result in fires. Potassium permanganate is not compatible with strong bases (such as sodium hydroxide and potassium hydroxide); finely powdered metals; peroxides; and aluminum, zinc, lead, and copper and their alloys.

No data available

10.6 Hazardous decomposition products

Metal fumes

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects Inhalation exposure

No data available

Oral exposure

No data available

Dermal exposure

No data available

Skin corrosion/irritation

Contact with potassium permanganate can severely irritate and burn the skin.

Serious eye damage/irritation

Contact with potassium permanganate can severely irritate and burn the eyes with possible eye damage.



Revision Date: 1/3/2024

Version 1.7

Respiratory or skin sensitization

No data available

Part Number: 9168

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

Potassium Permanganate:

LD50 rat oral 750 mg/kg

LD50 mouse oral 2157 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)



Revision Date: 1/3/2024

Version 1.7

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



Environmental hazards Marine pollutant

15. REGULATORY INFORMATION

Part Number: 9168

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

Permanganic acid (HMnO4), potassium salt (7722-64-7): LISTED

Canada Environmental Emergency Regulations Schedule 1: Listed Substance

No data available

Canada NPRI (Supplier Notification Required): Listed Substance

No data available

Export Control List (CEPA, 1999, Schedule 3)

No data available

Non-Regulatory Intsruments

No data available

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

No data available

16. OTHER INFORMATION

Preparation Information Newcomer Supply Inc.

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Revision Date: 1/3/2025

Version 1.7

1. PRODUCT AND COMPANY IDENTIFICATION

Part Number: 9168

1.1 Product Name: Reticulum, Gordon & Sweets Stain Kit, Sol'n B: Oxalic Acid 1%, Aqueous

Part Number: 9168

CAS-No.: Not applicable

SDS Number: 3690

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

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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 skin irritation
- · Causes serious eye 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

None

- easy to do. Continue rinsing.
- · If eye irritation persists get medical advice/attention.

2.3 Description of any hazards not otherwise classified

- · Specific treatment: see first aid measures in section 4.
- 2.4 >1% of mixture with unknown acute toxicity None

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixture

Hazardous Components

Componen	t	Concentration
Name	Oxalic Acid	
CAS-No.	144-62-7	1%

4. FIRST-AID MEASURES



Revision Date: 1/3/2025

Version 1.7

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

Part Number: 9168

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. Call a POISON CENTER or doctor/physician if you feel unwell.

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 Fire Reactivity
hazard: 1 hazard: 0 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



Revision Date: 1/3/2025

Version 1.7

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

Part Number: 9168

Components with limit values that require monitoring at the workplace

Component	CAS-No.	Regulatory	Value	Parameters
Oxalic acid	144-62-7	OSHA PEL	TWA	1 mg/m ³
		ACGIH TLV	TWA	1 mg/m ³
		ACGIH TLV	STEL	2 mg/m ³
		NIOSH REL	TWA	1 mg/m ³
		NIOSH REL	STEL	2 mg/m ³
		CANADA/QC	TWA	1 mg/m ³
		CANADA/QC	STEL	2 mg/m ³
		CANADA/ON	TWA	1 mg/m³
		CANADA/ON	STEL	2 mg/m³
		CANADA/BC	TWA	1 mg/m³
		CANADA/BC	STEL	2 mg/m³
		CANADA/AB	TWA	1 mg/m ³
		CANADA/AB	STEL	2 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



Part Number: 9168

SAFETY DATA SHEET (SDS)

Revision Date: 1/3/2025

Version 1.7

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).

Oxalic Acid: Where the potential exists for exposure over 1 mg/m³: use a NIOSH approved full facepiece, negative pressure, air-purifying, particulate filter respirator with an N, R or P100 filter. More protection is provided by a full facepiece respirator than by a half-mask respirator, and even greater protection is provided by a powered-air purifying respirator.

Where the potential exists for exposure over 50 mg/m³: 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 500 mg/m³: is immediately dangerous to life and health. If the possibility of exposure above 500 mg/m³ 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 No data available Odor threshold No data available рΗ No data available Melting point/freezing point No data available Initial boiling point and boiling range No data available 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) Completely water soluble

Partition coefficient: n-octanol/water

Auto-ignition temperature

Decomposition temperature

Viscosity

No data available

No data available

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



Revision Date: 1/3/2025

Version 1.7

10.4 Conditions to avoid

Part Number: 9168

Heat, sparks, open flame, and ignition sources.

10.5 Incompatible materials

Oxalic acid reacts violently with oxidizing agents (such as perchlorates, peroxides, permanganates, chlorates, nitrates, chlorine, bromine and fluorine); furfuryl alcohol; and chlorites to cause fires and explosions. Oxalic acid will react with silver and silver compounds to form explosive silver oxalate. Oxalic acid is not compatible with strong acids (such as hydrochloric, sulfuric and nitric); strong bases (such as sodium hydroxide and potassium hydroxide); alkali metals (such as lithium, sodium and potassium); and acid chlorides. Store in tightly closed containers in a cool, well-ventilated area away from moisture and combustibles. Oxalic acid corrodes steel.

10.6 Hazardous decomposition products

No data available

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects Inhalation exposure

No data available

Oral exposure

No data available

Dermal exposure

No data available

Skin corrosion/irritation

Contact with oxalic acid can severely irritate and burn the skin.

Serious eye damage/irritation

Contact with oxalic acid can severely irritate and burn the eyes with possible eye damage.

Respiratory or skin sensitization

No data available

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

No data available

Carcinogencity

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

Additional information



Revision Date: 1/3/2025

Version 1.7

Part Number: 9168

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

Oxalic Acid - Ethanedioic Acid (144-62-7): 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 Intsruments

Not listed

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



Revision Date: 1/3/2025

Version 1.7

Part Number: 9168

Not listed

16. OTHER INFORMATION

Preparation Information Newcomer Supply Inc. 800-383-7799

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Revision Date: 1/3/2025

Version 1.6

1. PRODUCT AND COMPANY IDENTIFICATION

Part Number: 9168

Reticulum, Gordon & Sweets Stain Kit, Sol'n C: Ferric Ammonium Sulfate 2.5%, 1.1 Product Name:

Aqueous

Part Number: 9168

CAS-No.: Not applicable

SDS Number: 2840

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

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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)

None

2.2 GHS Label elements

Signal Word NONE

Pictogram

Hazard Statement(s):

· None

Precautionary Statement(s):

· None

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	Ferric Ammonium Sulfate	
CAS-No.	10138-04-2	2.5%

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 (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water [or shower]. If skin irritation occurs: Get medical advice/attention.

Eve Contact



Revision Date: 1/3/2025

Version 1.6

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

Part Number: 9168

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 Fire Reactivity hazard: 0 hazard: 0 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

Does not contain components with occupational exposure limits.

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.



Revision Date: 1/3/2025

Version 1.6

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

Part Number: 9168

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

No data available

Other Information

None

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state Colorless to pale purple liquid

Odor Odorless

Odor threshold

pH

No data available

No data available

No data available

ca. 0°C (ca. 32°F)

Initial boiling point and boiling range

Flash point

No data available

Evaporation rate Evap. rate of water = 1; 1

Flammability (solid, gas) No data available Upper flammability or explosive limits No data available Lower flammability or explosive limits No data available Vapor pressure 18 mm Hg at 20°C Vapor density For water in air = 1; 1 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
Viscosity

No data available
1.222 (mPa)(s) at 20°C

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

10.6 Hazardous decomposition products



Revision Date: 1/3/2025

Version 1.6

Part Number: 9168

No data available

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Inhalation exposure

No data available

Oral exposure

No data available

Dermal exposure

No data available

Skin corrosion/irritation

No data available

Serious eye damage/irritation

No data available

Respiratory or skin sensitization

No data available

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

No data available

Carcinogencity

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



Revision Date: 1/3/2025

Version 1.6

12.5 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

Part Number: 9168

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

Ferric Ammonium Sulfate - Sulfuric acid, ammonium iron(3+) salt (2:1:1) (10138-04-2): LISTED

Canada Environmental Emergency Regulations Schedule 1: Listed Substance

No data available

Canada NPRI (Supplier Notification Required): Listed Substance

No data available

Export Control List (CEPA, 1999, Schedule 3)

No data available

Non-Regulatory Intsruments

No data available

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

No data available

16. OTHER INFORMATION

Preparation Information Newcomer Supply Inc.

800-383-7799

www.newcomersupply.com

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Revision Date: 1/3/2025

Version 1.7

1. PRODUCT AND COMPANY IDENTIFICATION

Part Number: 9168

1.1 Product Name: Reticulum, Gordon & Sweets Stain Kit, Sol'n D: Silver Nitrate 10%, Aqueous

Part Number: 9168

CAS-No.: Not applicable

SDS Number: 4250

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.comEmail: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) Acute toxicity (oral), Category 4

Skin corrosion, Category 1
Serious eye damage, Category 1
Acute aquatic toxicity, Category 1

Chronic aquatic toxicity, Category 1

2.2 GHS Label elements

Signal Word DANGER

Pictogram



Hazard Statement(s):

- · Harmful if swallowed
- · Causes severe skin burns and eye damage
- · Very toxic to aquatic life with lasting effects

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.

Response:

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water [or shower].

- · Wash contaminated clothing before reuse.
- · IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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:



Revision Date: 1/3/2025

Version 1.7

· Store locked up.

Disposal:

Part Number: 9168

- · 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

Concentration			
Component		Concentration	
Name	Silver Nitrate		
CAS-No.	7761-88-8	10%	

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]. Wash contaminated clothing before reuse. 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 Fire Reactivity

hazard: 1 hazard: 0 hazard: 0 Other Oxidizer

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures



Revision Date: 1/3/2025

Part Number: 9168 Version 1.7

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
Silver Nitrate	7761-88-8	OSHA PEL	TWA	0.01 mg/m ³
		ACGIH TLV	TWA	0.01 mg/m ³
		NIOSH REL	TWA	0.01 mg/m ³
		CANADA/QC	TWA	0.01 mg/m ³
		CANADA/ON TWAEV	TWA	0.01 mg/m ³
		CANADA/BC	TWA	0.01 mg/m ³
		CANADA/BC	TWA	0.03 mg/m ³
		CANADA/AB	TWA	0.01 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



Revision Date: 1/3/2025

Version 1.7

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).

In case of emergency, entry into or escape from unknown concentrations, select the highest level approved respiratory protection available.

Other Information

None

Part Number: 9168

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state Clear, colorless liquid

Odor Odorless

Odor threshold No data available рΗ No data available Melting point/freezing point No data available Initial boiling point and boiling range No data available Flash point No data available No data available **Evaporation rate** Flammability (solid, gas) No data available Upper flammability or explosive limits No data available Lower flammability or explosive limits No data available No data available Vapor pressure Vapor density No data available Relative density No data available Solubility(ies) Water soluble Partition coefficient: n-octanol/water No data available No data available Auto-ignition temperature 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

Keep away from combustible materials, heat, flame, and sparks.

10.5 Incompatible materials

Silver nitrate reacts with acetylene, in the presence of ammonia, to form silver acetylide, a sensitive and powerful detonator. Silver nitrate reacts violently with combustibles; chlorosulfonic acid and other acids (such as hydrochloric, sulfuric and nitric); metals; metal carbides; reducing agents (such as lithium, sodium, aluminum and their hydrides); and oxidizing agents (such as perchlorates, peroxides, permanganates, chlorates, nitrates, chlorine, bromine and fluorine). Silver nitrate is not compatible with ethylene oxide; charcoal; ammonium hydroxide; ethanol; aziridine; arsenic; sulfur; and many other compounds. Silver nitrate attacks some forms of plastic, rubber and coatings.

10.6 Hazardous decomposition products

Nitrogen oxide, oxygen, and silver oxides



Revision Date: 1/3/2025

Version 1.7

11. TOXICOLOGICAL INFORMATION

Part Number: 9168

11.1 Information on toxicological effects

Inhalation exposure

No data available

Oral exposure

No data available

Dermal exposure

No data available

Skin corrosion/irritation

Contact with silver nitrate can severely irritate and burn the skin.

Serious eye damage/irritation

Contact with silver nitrate can severely irritate and burn the eyes with possible eye damage.

Respiratory or skin sensitization

No data available

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

Silver Nitrate:

LD50 rat oral 1173 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



Revision Date: 1/3/2025

Version 1.7

Part Number: 9168

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 UN3082

Proper shipping name Environmentally hazardous substance, liquid, n.o.s.(Silver nitrate)



Hazard class
Packing group

Environmental hazards

Marine Pollutant

9

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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

Silver Nitrate - Nitric acid silver(1+) salt (7761-88-8): 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 Intsruments

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

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Revision Date: 1/3/2025

Version 1.7

1. PRODUCT AND COMPANY IDENTIFICATION

Part Number: 9168

Reticulum, Gordon & Sweets Stain Kit, Sol'n E: Ammonium Hydroxide 28-30%, 1.1 Product Name:

ACS

9168 **Part Number:**

Not applicable CAS-No.:

2320 **SDS Number:**

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) Corrosive to metals, Category 1 Skin corrosion, Category 1B Serious eye damage, Category 1 Acute toxicity (oral), Category 4

2.2 GHS Label elements

Signal Word DANGER

Pictogram





Hazard Statement(s):

- · May be corrosive to metals
- · Causes severe skin burns and eye damage
- · May be harmful if swallowed

Precautionary Statement(s):

Prevention:

- · Keep only in original container/packaging.
- · Do not breathe dust/fume/gas/mist/vapors/spray.
- · Wash skin thoroughly after handling.
- · Wear protective gloves/protective clothing/eye protection/face protection.
- · Do not eat, drink or smoke when using this product.

Response:

- · Absorb spillage to prevent material damage.
- · 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:



Revision Date: 1/3/2025

Version 1.7

- · Store locked up.
- · Store in a corrosive resistant container/container with a resistant inner liner.

Disposal:

Part Number: 9168

- · 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	Ammonium Hydroxide	
CAS-No.	1336-21-6	28-30%

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]. Wash contaminated clothing before reuse. 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 Fire Reactivity hazard: 3 hazard: 1 hazard: 0

6. ACCIDENTAL RELEASE MEASURES



Revision Date: 1/3/2025

Part Number: 9168 Version 1.7

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
Ammonium				
Hydroxide	1310-73-2	OSHA PEL	TWA	50 ppm
		NIOSH REL	TWA	25 ppm
		NIOSH REL	STEL	35 ppm
		ACGIH TLV	TWA	25 ppm
		ACGIH TLV	STEL	35 ppm
		CANADA/QC	TWA	25 ppm
		CANADA/QC	STEL	35 ppm
		CANADA/ON	TWA	25 ppm
		CANADA/ON	STEL	35 ppm
		CANADA/BC	TWA	25 ppm
		CANADA/BC	STEL	35 ppm
		CANADA/AB	TWA	25 ppm
		CANADA/AB	STEL	35 ppm

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.



Revision Date: 1/3/2025

Version 1.7

Body Protection

Part Number: 9168

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).

Where the potential exists for exposure over 25 ppm: use a NIOSH approved full facepiece respirator with an acid gas cartridge which is specifically approved for ammonium hydroxide.

Where the potential for high exposure exists, 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.

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 Pungent ammonia odor

Odor threshold

pH

No data available

No data available

No data available

ca. -72°C (ca. -98°F)

Initial boiling point and boiling range
Ca. 36°C (ca. 97°F)
Flash point
No data available
Evaporation rate
No data available
Flammability (solid, gas)
No data available

Upper flammability or explosive limits 25% Lower flammability or explosive limits 16%

Vapor pressure No data available Vapor density No data available

Relative density ~0.9

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



Revision Date: 1/3/2025

Version 1.7

10.5 Incompatible materials

Part Number: 9168

Ammonium hydroxide reacts with many heavy metals (such as silver, copper, lead and zinc) and their salts to form explosive compounds and flammable and explosive hydrogen gas. Ammonium hydroxide may read violently with strong acids (such as hydrochloric, sulfuric and nitric); dimethyl sulfate; and halogens. Ammonium hydroxide will react with strong bases (such as sodium hydroxide and potassium hydroxide) to produce ammonia gas. Do not use copper, aluminum or galvanized metals when handling ammonium hydroxide

10.6 Hazardous decomposition products

No data available

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects Inhalation exposure

No data available

Oral exposure

No data available

Dermal exposure

No data available

Skin corrosion/irritation

Ammonium hydroxide: Contact can severely irritate and burn the skin.

Serious eye damage/irritation

Ammonium hydroxide: Contact can severely irritate and burn 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

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Acute toxicity

Ammonium Hydroxide:

LD50 rat oral 350 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



Revision Date: 1/3/2025

Version 1.7

12.1 Ecotoxicity

Part Number: 9168

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 UN2672

Proper shipping name Ammonia solutions



Hazard class 8
Packing group III

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

Ammonium Hydroxide (1336-21-6): LISTED

Canada Environmental Emergency Regulations Schedule 1: Listed Substance

Ammonium Hydroxide (1336-21-6): LISTED

Canada NPRI (Supplier Notification Required): Listed Substance

Not listed

Export Control List (CEPA, 1999, Schedule 3)

Not listed

Non-Regulatory Intsruments

Not listed



Revision Date: 1/3/2025

Version 1.7

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

Not listed

16. OTHER INFORMATION

Part Number: 9168

Preparation Information Newcomer Supply Inc. 800-383-7799

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Revision Date: 1/3/2025

Version 1.8

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Name:

Part Number: 9168

Reticulum, Gordon & Sweets Stain Kit, Sol'n F: Sodium Hydroxide 3%, Aqueous

Part Number: 9168

CAS-No.: Not applicable

SDS Number: 4340

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.comEmail: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)

Corrosive to metals, Category 1 Skin corrosion, Category 1B Serious eye damage, Category 1

2.2 GHS Label elements

Signal Word DANGER

Pictogram



Hazard Statement(s):

- · May be corrosive to metals
- · Causes severe skin burns and eye damage

Precautionary Statement(s):

Prevention:

- · Do not breathe dust/fume/gas/mist/vapors/spray.
- · Wash skin thoroughly after handling.
- · Wear protective gloves/protective clothing/eye protection/face protection.

Response:

- · Absorb spillage to prevent material damage.
- $\cdot \text{ IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.} \\$
- 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: Immediately call a POISON CENTER or doctor/physician.
- · Specific treatment: see first aid measures in section 4.
- · Immediately call a POISON CENTER or doctor/physician.

Storage:

- · Store locked up.
- · Store in a corrosive resistant container/container with a resistant inner liner.

Disposal:



Revision Date: 1/3/2025

Part Number: 9168 Version 1.8

· 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

Compone	nt	Concentration
Name	Sodium Hydroxide	
CAS-No.	1310-73-2	3%

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]. Wash contaminated clothing before reuse. 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 Fire Reactivity
hazard: 1 hazard: 0 hazard: 0

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures



Revision Date: 1/3/2025

Part Number: 9168 Version 1.8

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
Sodium Hydroxide	1310-73-2	OSHA PEL	TWA	2 mg/m ³
		ACGIH TLV	С	2 mg/m ³
		NIOSH REL	С	2 mg/m ³
		CANADA/ON	PEAK	2 mg/m ³
		CANADA/QC	PEAK	2 mg/m ³
		CANADA/AB	PEAK	2 mg/m ³
		CANADA/BC	PEAK	2 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

Eve/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



Part Number: 9168

SAFETY DATA SHEET (SDS)

Revision Date: 1/3/2025

Version 1.8

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).

Where the potential exists for exposure over 2 mg/m3: use a NIOSH approved negative pressure, airpurifying, particulate filter respirator with an N, R or P100 filter. More protection is provided by a full facepiece respirator than by a half-mask respirator, and even greater protection is provided by a powered-air purifying respirator.

Leave the area immediately if (1) while wearing a filter or cartridge respirator you can smell, taste, or otherwise detect sodium hydroxide, (2) while wearing particulate filters abnormal resistance to breathing is experienced, or (3) eye irritation occurs while wearing a full facepiece respirator. Exposure to 10 mg/m3 is immediately dangerous to life and health. If the possibility of exposure above 10 mg/m3 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, colorless liquid Odor Odorless Odor threshold No data available Hq No data available No data available Melting point/freezing point Initial boiling point and boiling range No data available Flash point No data available No data available **Evaporation rate** 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) No data available No data available Partition coefficient: n-octanol/water Auto-ignition temperature No data available Decomposition temperature No data available No data available Viscosity

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



Revision Date: 1/3/2025

Version 1.8

Part Number: 9168

No data available

Incompatible materials

Sodium hydroxide reacts with strong acids (such as hydrochloric, sulfuric and nitric); water; and moisture to rapidly release heat. Sodium hydroxide reacts with metals (such as aluminum, lead, tin and zinc) to form flammable and explosive hydrogen gas. Sodium hydroxide can form shock sensitive salts on contact with nitrogen containing compounds (such as nitromethane). Sodium hydroxide is not compatible with oxidizing agents (such as perchlorates, peroxides, permanganates, chlorates, nitrates, chlorine, bromine and fluorine); chlorinated solvents; ammonia; and organic materials. Sodium hydroxide can attack iron, copper, plastics, rubber and coatings.

Hazardous decomposition products 10.6

No data available

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects Inhalation exposure

No data available

Oral exposure

No data available

Dermal exposure

No data available

Skin corrosion/irritation

Sodium Hydroxide: Contact can severely irritate and burn the skin.

Serious eve damage/irritation

Sodium Hydroxide: Contact can severely irritate and burn the eyes with possible permanent eye damage (corneal opacities), causing blindness.

Respiratory or skin sensitization

No data available

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

Sodium hydroxide:

LD50 mouse intraperitoneal 40 mg/kg

Carcinogencity

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



Revision Date: 1/3/2025

Version 1.8

Additional information RTECS: No data available

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity

Part Number: 9168

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 UN1824

Proper shipping name Sodium Hydroxide



Hazard class 8
Packing group III

Environmental hazardsNo 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

Sodium Hydroxide (1310-73-2): 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)



Revision Date: 1/3/2025

Version 1.8

Not listed

Part Number: 9168

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

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Revision Date: 1/3/2025

Version 1.8

1. PRODUCT AND COMPANY IDENTIFICATION

Part Number: 9168

1.1 Product Name: Reticulum, Gordon & Sweets Stain Kit, Sol'n G: Formalin 10%, Aqueous

Part Number: 9168

CAS-No.: Not applicable

SDS Number: 2920

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.comEmail: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)

Acute toxicity (oral), Category 4

Acute toxicity (inhalation), Category 4

Skin irritation, Category 2

Serious eye damage, Category 1

Skin sensitisation, Category 1

Germ cell mutagenicity, Category 2

Carcinogenicity, Category 1A

Specific Target Organ Toxicity – Single exposure, Category 1

2.2 GHS Label elements

Signal Word DANGER

Pictogram







Hazard Statement(s):

- · Harmful if swallowed
- · Harmful if inhaled
- · Causes skin irritation
- · Causes serious eye damage
- · May cause an allergic skin reaction
- · Suspected of causing genetic defects
- · May cause cancer
- · Causes damage to organs

Precautionary Statement(s):

Prevention:

- · Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- · Do not breathe dust/fume/gas/mist/vapors/spray.
- · Wash skin thoroughly after handling.
- · Do not eat, drink or smoke when using this product.
- · Use only outdoors or in a well-ventilated area.
- · Wear protective gloves/protective clothing/eye protection/face protection.

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.



Revision Date: 1/3/2025

Version 1.8

- · Take off contaminated clothing and wash before reuse.
- · Contaminated work clothing should not be allowed out of the workplace.
- · If skin irritation or a rash 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 SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- · Rinse mouth.

Part Number: 9168

- · Specific treatment: see first aid measures in section 4.
- · Immediately call a POISON CENTER or doctor/physician.

Storage:

· 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

Compone	nt	Concentration
Name	Formaldehyde	•
CAS-No.	50-00-0	3-4%
Name	Methyl Alcohol	•
CAS-No.	67-56-1	<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. Immediately call a POISON CENTER or doctor/physician.

Skin Contact

IF ON SKIN: Gently wash with soap and water. Take off contaminated clothing and wash before reuse. Immediately call a POISON CENTER or doctor/physician.

Eve 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: 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



Revision Date: 1/3/2025

Version 1.8

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

Part Number: 9168

Health Fire Reactivity hazard: 3 hazard: 2 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). Ensure proper ventilation. Contain spill. Prevent further leakage if possible and safe to do so. 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
Formaldehyde	50-00-0	OSHA PEL	TWA	0.75 ppm
		OSHA PEL	STEL	2 ppm
		ACGIH TLV	С	0.3 ppm (0.37 mg/m ³)
		NIOSH REL	TWA	0.016 ppm
		NIOSH REL	С	0.1 ppm 15-minute
				2 ppm 15 minutes (3 mg/m ³ 15
		CANADA/QC	STEV	minutes)
		CANADA/ON TWAEV	STEL	1 ppm 15 minutes
		CANADA/ON TWAEV	С	1 ppm
		CANADA/BC	TWA	0.3 ppm 8 hours
		CANADA/BC	С	1 ppm
		CANADA/AB	OEL	0.75 ppm 8 hours
		CANADA/AB	С	1 ppm

Component CAS-No. Regulatory Value Parameters



Revision Date: 1/3/2025 Version 1.8

Methyl Alcohol	67-56-1	OSHA PEL	TWA	200 ppm (260 mg/m ³)
	0, 30 1	ACGIH TLV	TWA	200 ppm (262 mg/m ³)
		ACGIH TLV	STEL	50 ppm (328 mg/m ³)
		NIOSH REL	TWA	200 ppm (260 mg/m ³)
		NIOSH REL	STEL	250 ppm (325 mg/m ³)
		CANADA NTNL - OEL	TWA	200 ppm (262 mg/m ³) 8 min
		CANADA NTNL - OEL	STEL	250 ppm (328 mg/m ³) 15 min

8.2 Exposure Controls

Part Number: 9168

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

Eve/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).

Where the potential exists for exposure over 0.016 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 20 ppm is immediately dangerous to life and health. If the possibility of exposure above 20 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 unknown concentrations, or escape, wear a self-contained positive-pressure breathing apparatus.

Other Information

None

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state Clear, colorless liquid Odor Pungent, irritating odor

Odor threshold No data available

pH 6.9-7.1

Melting point/freezing point

No data available
Initial boiling point and boiling range

No data available



Revision Date: 1/3/2025

Version 1.8

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 No data available Vapor pressure Vapor density No data available Relative density No data available Solubility(ies) Water soluble Partition coefficient: n-octanol/water No data available Auto-ignition temperature No data available No data available Decomposition temperature Viscosity No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

Part Number: 9168

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

Formaldehyde reacts violently with nitrogen oxides; oxidizing agents (such as perchlorates, peroxides, permanganates, chlorates, nitrates, chlorine, bromine and fluorine); mixtures of perchloric acid and aniline; nitromethane; magnesium carbonate; and hydrogen peroxide. Formaldehyde reacts with phenol and hydrogen chloride to form toxic bis(chloromethyl) ether. Formaldehyde is not compatible with strong acids (such as hydrochloric, sulfuric and nitric); strong bases (such as sodium hydroxide and potassium hydroxide); iodine; iron; silver; isocyanates; amines; anhydrides; and liquid oxygen.

10.6 Hazardous decomposition products

No data available

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Inhalation exposure

Formaldehyde: Difficulty in breathing was experienced at 10 to 20 ppm. Upper airway irritation and increased nasal airway resistance were reported at 0.1 to 25 ppm and lower airway and chronic pulmonary obstruction at 5 to 30 ppm. Inhaling formaldehyde can irritate the lungs. Higher exposures may cause a build-up of fluid in the lungs (pulmonary edema), a medical emergency.

Oral exposure

Acute oral exposure to formaldehyde can result in serious systemic symptoms or death.

Dermal exposure

No data available

Skin corrosion/irritation

Formaldehyde is corrosive and contact can severely irritate and burn the skin.



Part Number: 9168

SAFETY DATA SHEET (SDS)

Revision Date: 1/3/2025

Version 1.8

Serious eye damage/irritation

Formaldehyde: 10 to 20 ppm produces almost immediate eye irritation. Most subjects experience irritation of the eyes, nose, and throat at 1 to 3 ppm; many subjects cannot tolerate prolonged exposures to 4 to 5 ppm.

Respiratory or skin sensitization

It has been estimated that exposure for 5 to 10 minutes to 50 to 100 ppm might cause serious injury to the lower respiratory passages. Formaldehyde may cause a skin allergy and an asthma-like allergy. Formaldehyde may cause an asthma-like allergy. Future exposure can cause asthma attacks with shortness of breath, wheezing, coughing, and/or chest tightness.

Germ Cell mutagenicity

No data available

Reproductive toxicity

There is limited evidence that formaldehyde may damage the developing fetus and affect female

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

Formaldehyde:

LD50 rat oral 100 mg/kg LD50 rat dermal 270 mg/kg

LC50 rat inhalation 0.48 mg/l/4 hours

Carcinogencity

IARC: Formaldehyde: Group 1, carcinogenic to humans

NTP: Formaldehyde: Known human carcinogen

OSHA: Formaldehyde: Specifically regulated carcinogen

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



Revision Date: 1/3/2025

Version 1.8

Contents

Part Number: 9168

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 UN3334

Proper shipping name Aviation regulated liquid, n.o.s. (Formaldehyde solution, <25%)



Packing group

Packing group

Environmental hazards

9

Not applicable

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

Formaldehyde (50-00-0): LISTED Methyl Alcohol (67-56-1): LISTED

Canada Environmental Emergency Regulations Schedule 1: Listed Substance

Not listed

Canada NPRI (Supplier Notification Required): Listed Substance

Formaldehyde (50-00-0): LISTED Methyl Alcohol (67-56-1): LISTED

Export Control List (CEPA, 1999, Schedule 3)

Not listed

Non-Regulatory Intsruments

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

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Revision Date: 1/4/2025

Version 1.6

1. PRODUCT AND COMPANY IDENTIFICATION

Part Number: 9168

1.1 Product Name: Reticulum, Gordon & Sweets Stain Kit, Sol'n H: Gold Chloride 0.2%, Aqueous

Part Number: 9168

CAS-No.: Not applicable

SDS Number: 3080

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.comEmail: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)

None

2.2 GHS Label elements

Signal Word NONE

Pictogram

Hazard Statement(s):

· None

Precautionary Statement(s):

· None

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

Componer	nt	Concentration
Name	Gold Chloride	
CAS-No.	13453-07-1	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. Get medical advice/attention if you feel unwell.

Skin Contact

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Get medical advice/attention if you feel unwell.

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.



Revision Date: 1/4/2025

Version 1.6

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

Part Number: 9168

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 Fire Reactivity hazard: 0 hazard: 0 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

Does not contain components with occupational exposure limits.

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.

8.3 Personal Protective Equipment

Eve/Face protection



Revision Date: 1/4/2025

Version 1.6

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

Skin Protection

Part Number: 9168

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

No data available

Other Information

None

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state Translucent, light yellow solution; no precipitate

Odor Odorless

Odor threshold

pH

No data available

No data available

No data available

No data available

ca. 0°C (ca. 32°F)

Initial boiling point and boiling range

range

ca. 100°C (ca. 32°F)

Flash point

No data available

Evaporation rate Evap. rate of water = 1; 1

Flammability (solid, gas) No data available Upper flammability or explosive limits No data available Lower flammability or explosive limits No data available Vapor pressure 18 mm Hg at 20°C Vapor density For water in air = 1; 1 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 1.222 (mPa)(s) at 20°C

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 reducing agents

10.6 Hazardous decomposition products

No data available

11. TOXICOLOGICAL INFORMATION



Revision Date: 1/4/2025

Version 1.6

11.1 Information on toxicological effects

Inhalation exposure

No data available

Oral exposure

Part Number: 9168

No data available

Dermal exposure

No data available

Skin corrosion/irritation

No data available

Serious eye damage/irritation

No data available

Respiratory or skin sensitization

No data available

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

No data available

Carcinogencity

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



Revision Date: 1/4/2025

Version 1.6

13. DISPOSAL CONSIDERATIONS

Part Number: 9168

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

Gold Chloride (AuCl₃) (13453-07-1): 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 Intsruments

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

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Revision Date: 1/4/2025

Version 1.6

1. PRODUCT AND COMPANY IDENTIFICATION

Part Number: 9168

1.1 Product Name: Reticulum, Gordon & Sweets Stain Kit, Sol'n I: Sodium Thiosulfate 5%,

Aqueous

Part Number: 9168

CAS-No.: Not applicable

SDS Number: 4410

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.comEmail: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)

None

2.2 GHS Label elements

Signal Word NONE

Pictogram

Hazard Statement(s):

· None

Precautionary Statement(s):

None

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

3.1 Substances

Hazardous Components

Componen	t	Concentration
Name	Sodium Thiosulfate	
CAS-No.	10102-17-7	5%

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 (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

Eye Contact



Revision Date: 1/4/2025

Version 1.6

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. 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

Part Number: 9168

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 Fire Reactivity hazard: 0 hazard: 0 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 dust. 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

None of the components require monitoring at the workplace.

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.



Revision Date: 1/4/2025

Version 1.6

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

Part Number: 9168

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

No data available

Other Information

None

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state Translucent, colorless liquid

Odor Odorless

Odor threshold

pH

No data available

No data available

No data available

ca. 0°C (ca. 32°F)

Initial boiling point and boiling range

Flash point

Evaporation rate

No data available

Evap. rate of water = 1; 1

Flammability (solid, gas)

Upper flammability or explosive limits

Lower flammability or explosive limits

Vapor pressure

Vapor density

No data available

18 mm Hg at 20°C

No data available

Solubility(ies) Soluble

Partition coefficient: n-octanol/water
Auto-ignition temperature
Decomposition temperature
Viscosity

No data available
No data available
1.222 (mPa)(s) at 20°C

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

Relative density

10.2 Chemical stability

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

For water in air = 1; 1

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Strong acids, metal nitrates, iodine, lead, and mercury.

10.6 Hazardous decomposition products



Revision Date: 1/4/2025

Version 1.6

Part Number: 9168

No data available

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Inhalation exposure

No data available

Oral exposure

No data available

Dermal exposure

No data available

Skin corrosion/irritation

No data available

Serious eye damage/irritation

No data available

Respiratory or skin sensitization

No data available

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

No data available

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



Revision Date: 1/4/2025

Version 1.6

12.5 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

Part Number: 9168

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

Sodium Thiosulfate - Thiosulfuric acid (H2S2O3), disodium salt, pentahydrate (10102-17-7): 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 Intsruments

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

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Revision Date: 1/25/2025 Part Number: 1.6

1. PRODUCT AND COMPANY IDENTIFICATION

Part Number: 9168

Reticulum, Gordon & Sweets Stain Kit, Sol'n J: Nuclear Fast Red Stain, 1.1 Product Name:

Kernechtrot

Part Number: 9168

CAS-No.: Not applicable

SDS Number: 3630

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
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)

Acute toxicity (oral), Category 4

Skin irritation, Category 2

Serious Eye Damage/Eye irritation, Category 2

Specific Target Organ Toxicity - Single exposure, Category 3

2.2 GHS Label elements

Signal Word WARNING

Pictogram



Hazard Statement(s):

- · Harmful if swallowed
- · Causes skin irritation
- · Causes serious eye irritation
- · May cause respiratory irritation
- · May cause drowsiness or dizziness

Precautionary Statement(s):

Prevention:

- · Wear protective gloves/protective clothing/eye protection/face protection.
- \cdot Wash skin thoroughly after handling.
- · Do not eat, drink or smoke when using this product.
- · Avoid breathing dust/fume/gas/mist/vapours/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 plenty of soap and water.
- · Take off contaminated clothing and wash before reuse.
- · If skin irritation occurs: Get medical advice/attention.
- IF IN EYES: Rinse cautiously 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.



Revision Date: 1/25/2025 Part Number: 1.6

Part Number: 9168

- · 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	Nuclear Fast Red	
CAS-No.	6409-77-4	<1%
Name	Aluminum Sulfate	
CAS-No.	17927-65-0	4-5%
Name	Thymol	
CAS-No.	89-83-8	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. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin Contact

IF ON SKIN: 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 cautiously 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



Revision Date: 1/25/2025 Part Number: 1.6

Part Number: 9168

Wear a positive-pressure self-contained breathing apparatus if necessary. Wear chemical resistant

NFPA Rating

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

clothing as recommended by clothing manufacturer.

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
Aluminum sulfate	7784-26-1	OSHA PEL	STEL	5 mg/m ³
		OSHA PEL	TWA	15 mg/m ³
		ACGIH TLV	TWA	1 mg/m ³
		NIOSH REL	TWA	2 mg/m ³
		CANADA/ON	TWA	1 mg/m ³
		CANADA/QC	TWA	2 mg/m ³
		CANADA/AB	TWA	2 mg/m ³
		CANADA/BC	TWA	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. 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.



Revision Date: 1/25/2025 Part Number: 1.6

Skin Protection

Part Number: 9168

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 2 mg/m^{3 :} use a NIOSH approved negative pressure, air-purifying, particulate filter respirator with a P95 filter. More protection is provided by a full facepiece respirator than by a half-mask respirator, and even greater protection is provided by a powered-air purifying respirator.

Where the potential exists for exposure over 20 mg/m³: 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.

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

Opaque, pinkish-red liquid; no precipitate; will separate

Physical state upon standing
Odor Odorless
Odor threshold No data available

рΗ 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 Similar to water Relative density Solubility(ies) Water soluble Partition coefficient: n-octanol/water No data available No data available Auto-ignition temperature 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.



Revision Date: 1/25/2025 Part Number: 1.6

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Part Number: 9168

No data available

10.5 Incompatible materials

Strong oxidizers and bases

10.6 Hazardous decomposition products

Carbon dioxide, carbon monoxide, nitrogen oxides, sulfur oxides and ammonia. May emit toxic and irritating fumes when heated.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Inhalation exposure

No data available

Oral exposure

No data available

Dermal exposure

No data available

Skin corrosion/irritation

Contact with aluminum sulfate can severely irritate the skin.

Serious eye damage/irritation

Contact with aluminum sulfate can severely irritate and burn the eyes with possible eye damage.

Respiratory or skin sensitization

No data available

Germ Cell mutagenicity

No data available

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

Nuclear fast red can cause respiratory irritation.

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Acute toxicity

Thymol:

LD50 rat oral 980 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



Revision Date: 1/25/2025 Part Number: 1.6

12.1 Ecotoxicity

Part Number: 9168

No data available

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
Proper shipping name
Hazard class
Packing group
No data available

15. REGULATORY INFORMATION

15.1 No data available

16. OTHER INFORMATION

Preparation Information Newcomer Supply Inc. 800-383-7799

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