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1. PRODUCT AND COMPANY IDENTIFICATION
1.1 Product Name: **Chromic Acid 5%, Aqueous**
Part Number: 10341

CAS-No.: Not applicable

SDS Number: 2500

1.2 Recommended Use: Laboratory Chemicals

1.3 Company: Newcomer Supply
 2505 Parview Road
 Middleton, WI 53562 USA

Telephone: 1-800-383-7799

Fax: 1-608-831-0866

Website: www.newcomersupply.com
Email: newly@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)

Oxidizing liquid, Category 1

Acute toxicity (oral), Category 3

Acute toxicity (inhalation), Category 1

Acute toxicity (dermal), Category 2

Skin corrosion, Category 1

Serious eye damage, Category 1

Skin sensitisation, Category 1

Respiratory sensitization, Category 1

Germ cell mutagenicity, Category 1B

Carcinogenicity, Category 1A

Reproductive toxicity, Category 2

2.2 GHS Label elements
Signal Word DANGER

Pictogram

Hazard Statement(s):

- Highly flammable liquid and vapour
- Toxic if swallowed
- Fatal in contact with skin
- Fatal if inhaled
- Causes severe skin burns and eye damage
- Causes serious eye damage
- May cause genetic defects
- May cause cancer
- Suspected of damaging fertility or the unborn child

Precautionary Statement(s):
Prevention:

- Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood
- Keep away from heat/sparks/open flames/hot surfaces – No smoking
- Keep/Store away from clothing/.../combustible materials
- Take any precaution to avoid mixing with combustibles
- Wear protective gloves/protective clothing/eye protection/face protection
- Wear fire/flame resistant/retardant clothing

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- Wash skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Do not get in eyes, on skin, or on clothing
- Avoid breathing dust/fume/gas/mist/vapours/spray
- Use only outdoors or in a well-ventilated area
- Do not breathe dust/fume/gas/mist/vapours/spray
- In case of inadequate ventilation wear respiratory protection

Response:

IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes

- In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion
- In case of fire: See section 5 for extinction methods
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- Specific treatment: see first aid measures in section 4
- Rinse mouth
- IF ON SKIN: Gently wash with plenty of soap and water
- Immediately call a POISON CENTER or doctor/physician
- Take off contaminated clothing and wash before reuse
- 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 SWALLOWED: Rinse mouth. Do NOT induce vomiting
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- Wash contaminated clothing before reuse
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
- IF exposed or concerned: Get medical advice/attention
- Get medical advice/attention 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	Chromium Trioxide	
CAS-No.	1333-82-0	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. Call a POISON CENTER or doctor/physician.

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Skin Contact

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

Eye Contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Immediately call a POISON CENTER 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: 2	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

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

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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
Chromium Trioxide	1333-82-0	OSHA PEL	TWA	0.05 mg/m ³
		ACGIH TLV	TWA	0.0002 mg/m ³
		NIOSH REL	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

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 0.001 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 operated in a pressure-demand or other positive-pressure mode.

Exposure to 15 mg/m³ (as hexavalent Chromium) is immediately dangerous to life and health. If the possibility of exposure above 15 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 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	Reddish-orange liquid. Solution turns green when chromium becomes reduced
Odor	Odorless

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Odor threshold	No data available
pH	No data available
Melting point/freezing point	ca. 0°C (ca. 32°F)
Initial boiling point and boiling range	ca. 100°C (ca. 32°F)
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper flammability or explosive limits	No data available
Lower flammability or explosive limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Solubility(ies)	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

Heat, sparks, open flame, and ignition sources.

10.5 Incompatible materials

Alcohols; strong acids (such as hydrochloric, sulfuric and nitric); strong bases (such as sodium hydroxide and potassium hydroxide); sulfur dioxide; metals; metal salts; and oxidizing agents (such as perchlorates, peroxides, permanganates, chlorates, nitrates, chlorine, bromine and fluorine). Contact with organics or combustibles (such as wood, paper, fuels and oils) may cause a fire.

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

Chromium trioxide can irritate and burn the skin. Contact can cause deep skin ulcers.

Serious eye damage/irritation

Eye contact with chromium trioxide can cause severe irritation and burns with possible loss of vision.

Respiratory or skin sensitization

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Chromic trioxide may cause a skin allergy. If allergy develops, very low future exposure can cause itching and a skin rash. Chromic Trioxide can cause a severe allergic lung reaction with chills, fever, chest discomfort, cough, and/or shortness of breath. Repeated attacks may lead to permanent scarring.

Germ Cell mutagenicity

Chromium trioxide may damage genetic material in a body cell leading to birth defects, miscarriages, or cancer.

Reproductive toxicity

Chromic trioxide may be a teratogen in humans since it has been shown to be a teratogen in animals.

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

Chromic trioxide may damage the liver and kidneys.

Aspiration hazard

No data available

Acute toxicity

Chromium Trioxide:

LD50 rat oral 80 mg/kg

LD50 rabbit dermal 30 mg/kg

LC50 rat inhalation 0.033-0.137 mg/l/4 hours

Carcinogenicity

IARC: Chromium trioxide: Group 1: Carcinogenic to humans

NTP: Chromium trioxide: Known to be a human carcinogen

OSHA: Chromium trioxide: OSHA 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
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

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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	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**15.1** No data available**16. OTHER INFORMATION**

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