



Section 1. Identification of the Substance/Mixture and the Company

1.1 Product Identifier	Product Name: Chromic Acid Solution Product Number: CHR	
1.2 Intended use	EN: Laboratory reagent. For professional use only. DA: Laboratoriereagens. Kun til professionelt brug. DE: Laboratoriumreagens. Alleen voor professioneel gebruik. EL: Αντιδραστήριο εργαστηρίου. Για επαγγελματική χρήση μόνο. ES: Reactivo de laboratorio. Sólo para uso profesional. FR: Réactif de laboratoire. Pour un usage professionnel uniquement. IT: Laboratorio di reagente. Solo per uso professionale. NL: Laboratoriumreagens. Alleen voor professioneel gebruik. PT: Reagente de laboratório. Para uso profissional. SV: Laboratoriereagens. Endast för yrkesmässig användning.	
1.3 Details of the supplier of the safety data sheet	Manufacturer	ScyTek Laboratories, Inc.
	Address	205 South 600 West Logan, Utah 84321 U.S.A.
	Phone Number	800-729-8350
	Fax Number	435-755-0015
	e-mail	scytek@scytek.com
	Website	scytek.com
1.4 Emergency Telephone	Chemtrec (USA): 1-800-424-9300	

Section 2. Hazards Identification

2.1 GHS Classification:	May cause allergy or asthma symptoms (Category 1) – H334 May cause genetic defects (Category 1B) – H340 May cause cancer (Category 1A) – H350 Suspected of damaging fertility (Category 2) – H361 May cause damage to organs through prolonged or repeated exposure (Category 2) – H373 Causes serious eye damage (Category 1) – H318 Toxic if swallowed (Category 3) – H301 Harmful if inhaled (Category 4) – H332 Toxic in contact with skin (Category 3) – H311 May cause an allergic skin reaction (Category 1) – H317 Oxidizing liquids (Category 3) – H272
2.2 Label Elements	Pictogram(s):  Signal word: Danger Hazard Statement(s):


	<p>H340 – May cause genetic defects H350 – May cause cancer H361 – Suspected of damaging fertility or the unborn child H318 – Causes serious eye damage H301 + H311 – Toxic if swallowed or in contact with skin. H332 – Harmful if inhaled</p> <p>Hazard Statement(s) not listed on the label: H317 – May cause an allergic skin reaction H410 – Very toxic to aquatic life with long lasting effects. H373 – May cause damage to organs through prolonged or repeated exposure H334 – May cause allergy or asthma symptoms or breathing difficulties if inhaled H272 – May intensify fire; oxidizer</p> <p>Precautionary Statements(s): P202 – Do not handle until all safety precautions [and hazard statements] have been read and understood.</p> <p>Precautionary statement(s) not listed on label: P280 – Wear protective gloves/protective clothing/eye protection/face protection. P362 – Take off contaminated clothing and wash before reuse P308 + P313 – IF exposed or concerned: Get medical advice/attention. P260 – Do not breathe dust/fume/gas/mist/vapours/spray. P314 – Get medical advice/attention if you feel unwell. P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor/physician. P264 – Wash skin thoroughly after handling. P270 – Do not eat, drink or smoke when using this product. P301 + P312 – IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell. P302 + P352 – IF ON SKIN: wash with plenty of soap and water. P332 + P313 – IF SKIN irritation occurs: Get medical advice/attention. P333 + P313 – IF SKIN irritation or rash occurs: Get medical advice/attention. P363 – Wash contaminated clothing before reuse.</p>		
NFPA Scale: 0-4 (Estimated for Mixtures and Kits)			
HMIS (U.S.A.) Scale: 0-4 (Estimated for Mixtures and Kits)	HEALTH	3	
	FLAMMABILITY	0	
	PHYSICAL HAZARD	0	
	PERSONAL PROTECTION	D	
2.3 Other Hazards	PBT: This mixture does not contain any substances that are assessed to be a PBT. vPvB: This mixture does not contain any substances that are assessed to be a vPvB.		






Section 3. Composition and Information on Ingredients

3.2 Chemical Description: Mixture

*May contain additional non-hazardous proprietary ingredients.

*May contain additional active ingredients at concentrations <0.1%w/v.

Hazardous Ingredients:	CAS#	EC#	GHS Symbols	%
Chromium(VI) oxide	1333-82-0	215-607-8	 Danger. 1 H334 May cause allergy or asthma symptoms or	≤ 10

			breathing difficulties if inhaled. 1A H340 May cause genetic defects. 1A H350 May cause cancer. 2 H361 Suspected of damaging fertility or the unborn child. 1 H372 Causes damage to organs through prolonged or repeated exposure.  Danger. 3 H301 Toxic if swallowed. 3 H311 Toxic in contact with skin. 1,2 H330 Fatal if inhaled.  Warning. 2. H410 Very toxic to aquatic life with long lasting effects.  Danger. 1. H271 May cause fire or explosion; strong oxidizer.  Danger. 1A H314 Causes severe skin burns and eye damage.  Warning. 1 H317 May cause an allergic skin reaction.
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Section 4. First Aid Measures

4.1 Description of first aid measures

Eye Contact: Check for and remove contact lenses. Immediately flush eyes with copious amounts of water and get immediate medical attention.

Skin Contact: Remove contaminated clothing and wash contact area with mild soap and copious amounts of water and get immediate medical attention.

Inhalation: If inhaled, remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms worsen.

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as collar, tie, belt or waistband. Get immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed

See section 2.2 and 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

Section 5. Fire Fighting Measures

5.1 Extinguishing Media	Extinguish fire using water spray, carbon dioxide, chemical foam, or dry chemical.
5.2 Special hazards arising from the substance or mixture	No unusual fire or explosion hazards expected.
5.3 Advice for firefighters	As with any fire, wear personal protection equipment, including a self-contained breathing apparatus (S.C.B.A.)

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear chemical resistant clothing, gloves, and eye protection. Wear NIOSH/MSHA approved breathing apparatus.

6.2 Environmental precautions

Keep material away from heat, flame, ignition sources, and reactive materials. Don't allow product to enter drain.

6.3 Methods and materials for containment and cleaning up

Wipe up or absorb spill using inert absorbent and place in a suitable waste container for disposal.

Section 7. Handling and Storage

7.1 Precautions for safe handling.

Avoid contact with skin and eyes.

Wash thoroughly after handling.

Avoid breathing vapor.

7.2 Conditions for safe storage, including any incompatibilities.

Store in well ventilated area.

Keep container tightly closed.

Store at 15-30°C.

7.3 Specific end use(s).

See section 1.2

Section 8. Exposure Controls / Personal Protection

8.1 Control parameters	<p>Exposure Limits: Chromium trioxide ACGIH: 0.05 mg/m³ TWA (as Cr) (listed under Chromium (VI) compounds-water soluble) NIOSH: 0.001 mg/m³ TWA (as Cr) 15 mg/m³ IDLH (as Cr (VI)) OSHA: none listed</p>
8.2 Exposure controls	<p>Personal Protective Equipment (PPE): Eye/Face protection. Safety glasses or goggles are required. Skin protection. Protective clothing is required. Hand protection. Chemical resistant gloves are required. Glove material must be resistant to the components of this product. Consult glove manufacturer for specific recommendations of appropriate material and thickness of glove. Respiratory protection. Avoid breathing vapor. Environmental exposure controls. Avoid releasing large quantities into the environment. No additional information.</p>
Engineering Controls	<p>Working area should be adequately large and well ventilated to prevent concentration of vapors. Provide mechanical exhaust ventilation or other engineering controls to keep airborne concentrations of vapors below their respective threshold limits.</p>

Section 9. Physical and Chemical Properties

Physical State	Liquid
Color	Transparent Red
Odor	Odorless
Odor Threshold	Unknown

pH	Acidic
Melting Point/ Freezing Point	Unknown
Initial Boiling Point	Unknown
Flash Point	Unknown
Evaporation Rate	Unknown
Flammability (solid, gas)	Unknown
Upper/Lower Flammability Limits	Unknown
Vapor Pressure	Unknown
Vapor Density	Unknown
Relative Density	Unknown
Solubility(ies)	Water
Partition Coefficient: n-octanol/water	Unknown
Auto-ignition Temperature	Unknown
Decomposition Temperature	Unknown
Viscosity	Unknown
Explosive Properties	Not explosive.
Oxidizing Properties	Oxidizing Solution

Section 10. Stability and Reactivity

10.1 Reactivity	No relevant data available.
10.2 Chemical Stability	Stable under normal temperatures and pressures.
10.3 Possibility of Hazardous Reactions	No hazardous reactions known.
10.4 Conditions to Avoid	Fire, static electricity, direct sunlight.
10.5 Incompatible Materials	Lithium, glycerol, oxidizing agents and any combustible material , reducing agents, acetic acid, Dimethyl formamide, acetone, methanol, ethanol, pyridine, camphor, ethanol, turpentine.
10.6 Hazardous Decomposition Materials	Chromic oxides

Section 11. Toxicological Information

11.1 Information on Toxicological Effects.	<p>Acute Toxicity. Chromium Trioxide: LD50/LC50: CAS# 7732-18-5: Oral, rat: LD50 = >90 mL/kg. CAS# 1333-82-0: Oral, mouse: LD50 = 127 mg/kg Oral, rat: LD50 = 80 mg/kg.</p> <p>Skin Corrosion/Irritation. Irritating to skin and mucous membranes. Skin absorption may affect kidneys. Large amounts may cause kidney failure.</p> <p>Serious Eye Damage/Irritation. Corrosive to eye. Prolonged exposure will cause blindness.</p> <p>Respiratory or skin sensitization. No relevant data available.</p>
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	Germ Cell Mutagenicity. No relevant data available.
Carcinogenicity.	International Agency for Research on Cancer (IARC). CAS # 1333-82-0 ACGIH: A1 - Confirmed Human Carcinogen (listed as 'Chromium (VI) compounds - water soluble') California: carcinogen, initial date 2/27/87 (listed as 'Chromium (VI) compounds'). National Toxicology Program (NTP). Known Carcinogen


Section 12. Ecological Information

12.1 Toxicity	Fish: No relevant studies identified. Crustacea: No relevant studies identified. Algae/Aquatic Plants: No relevant studies identified. Other Organisms: No relevant studies identified.
12.2 Persistence and Degradability.	No relevant studies identified.
12.3 Bioaccumulative Potential.	No relevant studies identified.
12.4 Mobility in Soil.	Miscible in water. May spread in water systems. This component is non-volatile.
Additional Remarks	None.
12.5 Results of PBT and vPvB Assessment.	PBT: This mixture does not contain any substances that are assessed to be a PBT. vPvB: This mixture does not contain any substances that are assessed to be a vPvB.

Section 13. Disposal Considerations

13.1 Waste Disposal Methods.	Waste should not be disposed of by release to sewers. Dispose waste in accordance with federal, state and local environmental control regulations.
Product/Packaging Disposal.	Final decisions on the appropriate waste management method must be in line with local, regional and national regulations.
Other Disposal Recommendations.	No relevant data available.

Section 14. Transport Information

14.1 UN Number	1755
14.2 UN Proper Shipping Name	Chromic acid solution
14.3 Transport Hazard Class(es)	8 
14.4 Packing Group DOT, IATA, IMDG, ADR	II
14.5 Environmental Hazards	Marine Pollutant: No
14.6 Special Precautions for User	Not applicable.

Section 15. Regulatory Information

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture.

Extremely Hazardous Substances; Section 355	None of the components in this mixture are listed.
Toxic Substances Control Act; TSCA	All of the components in this mixture are listed.
California Proposition 65	This product contains a chemical known to the state of California to cause cancer. Chromium trioxide CAS 1333-82-0
Right To Know Components	Massachusetts: Chromium trioxide CAS 1333-82-0 Pennsylvania: Chromium trioxide CAS 1333-82-0 New Jersey: Chromium trioxide CAS 1333-82-0

Section 16. Other Information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. ScyTek Laboratories shall not be held liable for any damage resulting from handling or from contact with the above product.