



MARTRON INC. SAFETY DATA SHEET MARTRON 5090-25

SECTION 1: COMPANY and MIXTURE IDENTIFICATION

1.1 Product Name Product Number	MARTRON 5090-25 MFC-001546
1.2 Product Type and Use	Metal Finishing Additive
1.3 Supplier Details	Martron Inc. 1394-A Walkup Ave. Monroe, NC 28110 704-289-1934
Website	www.martroninc.com
1.4 Emergency Number	CHEMTREC 800-424-9300

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Mixture According to GHS (EC 1272 -2008)

Acute Tox. 4 (Oral), H302
Skin Corr. 1A, H314
Skin Sens. 1, H317
Resp. Sens. 1, H334
Muta. 2, H341
Carc. 1B, H350
Repr. 1B, H360
Aquatic Chronic 2, H411

2.2 GHS Pictograms



Hazard Statements

H302: Harmful if swallowed.
H314A: Causes severe skin burns and eye damage.
H317: May cause an allergic skin reaction.
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H341: Suspected of causing genetic defects.
H350 1B: May cause cancer.
H360 1B: May damage fertility or the unborn child.
H411: Toxic to aquatic life with long lasting effects.

Precautionary Statements

P201: Obtain special instructions before use.
P260: Do not breathe dust/fume/gas/mist/vapours/spray.
P264: Wash thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P272: Contaminated work clothing should not be allowed out of the workplace.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P285: In case of inadequate ventilation wear respiratory protection.
P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P302+P352: IF ON SKIN: Wash with plenty of soap and water.

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

P304+P340: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

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

P308+P313: IF exposed or concerned: Get medical advice/attention.

P310: Immediately call a POISON CENTER or doctor/physician.

P333+P313: IF skin irritation or rash occurs: Get medical advice/attention.

P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

P501: Dispose of contents/container in accordance with all local/regional/national/international regulations.

2.3 Additional Information

NONE

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Name	Product Identifier	%	Classification According to Regulation EC No. 1272/2008 [CLP]
Chrome III Complex	CAS no. T.S. EC no. 236-921-1 Reach no. 05-2118253045-50 JCSL no.1-281	< 20%	Ox. Liq 3, H272 Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Aquatic Chronic 2, H411
Ethanoic Acid	CAS no. 64-19-7 EC no. 200-580-7 Reach no. 05-2118254141-55 JCSL no. 2-688	< 8%	Skin Corr 1A, H314 Flam Liq 3, H226
Cobalt Salt	CAS no. T.S. EC no. 233-334-2 Reach no. 01-2119517426-41 JCSL no. 1 - 270	< 5%	Acute Tox 4 (Oral), H302 Skin Sens 1, H317 Resp Sens 1, H334 Muta 2, H341 Carc 1B, H350 Repr 1B, H360 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Ammonium Bifluoride	CAS no. 1341-49-7 EC no. 215-676-4 Reach no. 05-2118253908-30 JCSL no. 1 - 311	< 3%	Acute Tox. 3, H301 Skin Corr. 1B, H314

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures

Eye Contact

Immediately flush eyes with flowing water for at least TEN (10) minutes. Call emergency medical services if irritation continues.

Skin Contact

Rinse thoroughly with running water for at least TEN (10) minutes. Seek medical advice if irritation continues. Remove/Take off all contaminated clothing.

Inhalation

Move exposed individual to fresh air. Give oxygen if breathing is difficult. Provide artificial respiration using a mask equipped with a one-way valve if victim is not breathing. Call emergency medical services.

Ingestion

Provide large quantities of water if victim is conscious and call emergency medical services immediately. Never give anything by mouth to an unconscious person.

4.2 Important Symptoms and Effect Acute and Delayed Symptoms/Injuries

May cause severe burns. Symptoms might include pain, redness, and tissue damage.

Inhalation

Inhalation of mist may cause irritation of the respiratory system.

Skin Contact

May cause severe burns. Symptoms might include pain, redness, and tissue damage.

Eye Contact

Causes serious eye damage.

Ingestion

May cause severe irritation of the digestive tract, nausea, vomiting, or diarrhea.

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

Seek immediate medical attention if splashed in eyes or if there is a difficulty in breathing while using this product.

SECTION 5: FIREFIGHTING MEASURES**5.1 Extinguishing Media**

Dry chemical powder. Water spray. Carbon dioxide (CO₂)

5.2 Special Hazards from the Mixture

Mixture itself does not burn but may decompose upon heating to produce fumes. Cool plastic drum, pail or tote containers which may swell or rupture upon heating.

5.3 Advice for Firefighters**Protection from Firefighting**

Use self-contained breathing apparatus and chemically protective clothing. For further information refer to Section 8, Exposure-controls/personal protection.

Other Information

Avoid eye and skin contact.

HMIS: 3-0-1-J

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1 Personal Precautions, Protective Equipment and Emergency Procedures For Non-Emergency Personnel**

Ensure adequate ventilation, Use personal protective equipment.

For Emergency Responders

Ensure adequate ventilation, Use personal protective equipment.

6.2 Environmental Precautions

Avoid discharge into soil, water or air.

6.3 Containment and Cleanup**Methods for Cleanup**

Contain spills, cover with absorbent, carefully sweep up material and transfer to a suitable container for disposal.

Other information

Comply with local regulations for disposal.

6.4 Reference to Other Sections

Refer to Section 8.

SECTION 7: HANDLING and STORAGE

7.1 Precautions for Safe Handling

Avoid contact with skin, eye and clothing. Avoid breathing dust, mist or spray. Refer to Section 8 for exposure controls.

7.2 Storage and Incompatibles

Storage Condition(s)

Shelf life is two (2) years from date of manufacture. Store tightly closed in a dry, cool and well-ventilated place.

Incompatible materials

Product may react with strong acidic and strong basic solutions.

Storage area

Floors should be impenetrable, resistant to liquids and easy to clean. Keep away from heat and direct sunlight. Do not store near oxidizing agents. Store in dry, cool, well-ventilated area.

7.3 Specific End Use(s)

Metal Finishing

SECTION 8: EXPOSURE CONTROLS and PERSONAL PROTECTION

8.1 Control Parameters

AMMONIUM BIFLOURIDE (1341-49-7) USA	ACGIH-TEL	2.5 mg/m3 as F
CHROME III COMPLEX (T.S.) USA	ACGIH – TEL	0.5 mg/m3 Cr (III)
COBALT SALT (T.S) USA	ACGIH – TEL	0.02 mg/m3 as Co.
ETHANOIC ACID (64-19-7) USA	ACGIH – TEL	25 mg/m3

8.2 Exposure Controls

Exposure Controls

Maintain employee exposures to levels below the applicable exposure limits.

Ventilation

Use local or general exhaust to reduce airborne exposures.

Respiratory Protection

Respiratory protection should not be required under normal use with proper engineering controls. A respiratory program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed if workplace conditions warrant use of a respirator.

Hand Protection

Wear chemical resistant gloves when handling any chemical product.

Eye Protection

Wear chemical safety glasses and/or face shield when handling chemical products.

Skin Protection

Wear protective clothing as appropriate.

Other

Launder contaminated clothing before reuse.

SECTION 9: PHYSICAL and CHEMICAL PROPERTIES**9.1 Information on Basic Physical and Chemical Properties**

Appearance	Dark blue-green liquid
Flammability (solid, gas)	No data available
Odour	Sharp odor
Explosive Limits	No data available
Odour Threshold	No data available
Vapor Pressure	No data available
pH	1.20 - 2.20 (10% solution)
Vapour Density	No data available
Melting Point	No data available
Relative Density	1.255 - 1.300
Solidification Point	No data available
Solubility	Complete in water
Boiling Point	No data available
Self-Ignition Temperature	No data available
Flash Point	No data available
Decomposition Temperature	No data available
Evap rate rel to butyl acetate	No data available
Viscosity	No data available

SECTION 10: STABILITY and REACTIVITY**10.1 Reactivity**

Product is an acidic solution and may react vigorously with alkaline solutions.

10.2 Chemical Stability

Product may not be stable under heat, moisture, pressure, or exposure to incompatible materials.

10.3 Possibility of Hazardous Reactions

Product will not undergo polymerization.

10.4 Conditions to Avoid

Keep away from heat. Keep out of direct sunlight.

10.5 Incompatible Materials

Product may react with strong acidic and strong basic solutions.

10.6 Hazardous Decomposition Products

Oxides of nitrogen, chromium and sulfur.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1 Toxicological Effects****Acute Toxicity**

No known acute toxicity effects when used as directed.

Skin Corrosion/Irritation

Causes severe skin burns and eye damage.

Respiratory or Skin Sensitization

No known skin sensitization affects when used as directed.

Embryotoxic, Teratogenic or Mutagenic

Contains components which may damage fertility or the unborn child. Suspected of causing genetic defects.

Carcinogenicity

Product contains cobalt salts which may cause cancer.

Reproductive or Gonadotoxicity

Contains components which may damage fertility or the unborn child. Suspected of causing genetic defects.

Specific Target Organ

No known Specific Target Organ Toxicity.

Carcinogens

IARC	YES	OSHA	YES
NTP	YES	EU	YES

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxic to aquatic life with long lasting effects.

12.2 Persistence & Degradability

No persistence and biodegradability data available.

12.3 Bio-Accumulative Potential

No known bio-accumulative potential.

12.4 Mobility in Soil

No known mobility in soils.

12.5 PBT and vPvB Assessment

No components of this product are listed as PBT or vPvB.

12.6 Other Adverse Effects

No other adverse effects known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

Waste Disposal

Dispose of this material and its container to hazardous or special waste collection point. Disposal must be done according to official regulations. Do not empty into drain or the aquatic environment.

Ecology – Waste Materials

Dispose of all waste in accordance with federal, state, and local regulations.

SECTION 14: TRANSPORTATION INFORMATION

**14.1 U. S. DOT (LAND)
Proper Shipping Name**

Department of Transportation

CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (AMMONIUM BIFLUORIDE AND TRIVALENT CHROMIUM COMPOUNDS)

Hazard Class

8

UN/NA Number

3264

Packing Group

II

Labels Required

CLASS 8 CORROSIVE

Marine Pollutant

NO

**14.2 I.A.T.A./I.C.A.O. (AIR)
Proper Shipping Name**

International Air Transportation Authority / International Civil Air Organization

CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (AMMONIUM BIFLUORIDE AND TRIVALENT CHROMIUM COMPOUNDS)

Hazard Class

8

UN/NA Number 3264
 Packing Group II
 Labels Required CLASS 8 CORROSIVE
 Marine Pollutant NO

14.3 I.M.D.G. (SEA) Proper Shipping Name International Maritime Organization
 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (AMMONIUM BIFLUORIDE AND TRIVALENT CHROMIUM COMPOUNDS)
Hazard Class 8
UN/NA Number 3264
Packing Class II
Labels Required CLASS 8 CORROSIVE
Marine Pollutant MARINE POLLUTANT

14.4 ERG Info GUIDE # 154
Reportable Quantity NONE
Placard AS REQUIRED

14.5 Environmental Hazards

This mixture is not considered environmentally hazardous according to the UN Model Regulations and is not considered a marine pollutant according to the IMDG Code.

14.6 Special Precautions

No other special precautions are required for transport of this mixture.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations

Classification According to Directive 1999/548/EC

C; R34, Xn; R22-43, Carc. Cat 2; R49, N; R50-53

DPD Pictograms



Risk and Safety Phrases

R34, R22, R43, R50/53, S22, S23, S26, S36, S37, S45, S53, S60, S61

INGREDIENT	CAS NUMBER	CERCLA	SARA 313	SARA 302	REACH SVHC List	ROHS 2
ACETIC ACID	64-19-7	X				
AMMONIUM BIFLUORIDE	1341-49-7	X	X			
CHROME III COMPLEX	T.S.	X	X			
COBALT SALT	T.S.		X			

NATIONAL INVENTORIES

AICS (Australia)	Components listed
ECN (Taiwan)	Not all components listed
DSL (Canada)	Components listed
NDSL (Canada)	Not all components listed
ECL (Korea)	Components listed
NZIoC (New Zealand)	Components listed
EINECS (Europe)	Components listed
PICCS (Philippines)	Components listed
ENCS (Japan)	Components listed
SWISS (Switzerland)	Status not determined
IECSC (China)	Components listed
TSCA (USA)	Components listed

15.2 WHMIS

Components listed as CANADA WHMIS Class E/B3 - Corrosive/Combustible Material.

15.3 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out for this mixture by the supplier.

SECTION 16: OTHER INFORMATION**16.1 Method of Evaluation**

Mixture hazard classification per UN GHS Purple Book, (EC) 1272/2008 Article 9(4), OSHA Haz-Com 2012.

16.2 Other Information

This information is provided in good faith from current, reliable sources and is believed to be correct. No warranty is expressed, implied, or given. The seller of this material assumes no responsibility for any damages resulting from contact with this material.

16.3 Revision History

2/3/16: Rev. S2, S3
5/3/15: Rev. S2, 11, 14, and 15.
10/23/14: Rev. S3
7/17/13: Rev. S2.
4/19/13: Rev. S3
11/30/12: New release