



MARTRON INC. SAFETY DATA SHEET MARTRON CPA

SECTION 1. IDENTIFICATION

Product Name	MARTRON CPA
Product Code	MFC-007513
Recommended Use	Plating agents and metal surface treating agents. Surface treatment
Restrictions on Use	For industrial use only.
Company Name of Supplier	Martron Inc. 1394-A Walkup Ave Monroe, NC 28110 704-289-1934
Website	www.martroninc.com
Emergency Number	CHEMTREC 800-424-9300

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Oxidizing solids	Category 1
Acute toxicity (Oral)	Category 3
Acute toxicity (Inhalation)	Category 2
Acute toxicity (Dermal)	Category 2
Skin corrosion	Category 1A
Serious eye damage	Category 1
Respiratory sensitization	Category 1
Skin sensitization	Category 1
Germ cell mutagenicity	Category 1B
Carcinogenicity	Category 1A
Reproductive toxicity	Category 2
Specific target organ systemic toxicity – single exposure	Category 3 (Respiratory system)
Specific target organ systemic toxicity – repeated exposure	Category 1

GHS Label Element

Hazard Pictograms



Signal Word

DANGER

Hazard Statements

H271 May cause fire or explosion; strong oxidizer.
H301 Toxic if swallowed.
H310+H330 Fatal in contact with skin or if inhaled.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.
 H340 May cause genetic defects.
 H350 May cause cancer.
 H361 Suspected of damaging fertility or the unborn child.
 H372 Causes damage to organs through prolonged or repeated exposure.

Precautionary Statements

Prevention

P202 Do not handle until all safety precautions have been read and understood.
 P220 Keep/Store away from clothing/combustible materials.
 P221 Take any precaution to avoid mixing with combustibles.
 P260 Do not breathe dust/fume/gas/mist/vapors/spray.
 P262 Do not get in eyes, on skin, or on clothing.
 P264 Wash skin 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.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P284 Wear respiratory protection.

Response

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 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 victim 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.
 P310 Immediately call a POISON CENTER or doctor/physician.
 P370+P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
 P371+P380+P375 In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

Storage

P405 Store locked up.

Disposal

P501 Dispose of contents/container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Mixture	Substance
Chemical Nature	Solid
Substance Name	Chromium Trioxide
CAS-No.	1333-82-0

Hazardous Ingredients

Chemical Name	CAS No	Concentration (%)
Chromium Trioxide	1333-82-0	>= 80 - <= 100

This product may contain component (s) that are not listed under disclosure. All components not listed, do not contain hazardous materials above de minimus disclosure limits as defined by OSHA, NIOSH, ACGIH or Canadian WHMIS regulations and or guidelines. Please refer to other sections of the SDS for information on safety, health and environmental guidelines and precautions.

SECTION 4. FIRST AID MEASURES**General Advice**

Call a physician or poison control center immediately. Show this Safety Data Sheet to the doctor in attendance.

If Inhaled

Call a physician or poison control center immediately. Move to fresh air.

In Case of Skin Contact

Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and shoes immediately. Consult a physician.

In Case of Eye Contact

In case of contact, immediately flush eyes with plenty of water for at least 30 minutes. Consult a physician.

If Swallowed

If swallowed, call a poison control center or doctor immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice.

Most Important Symptoms and Effects, Both Acute and Delayed

Toxic if swallowed.

Fatal in contact with skin or if inhaled.

May cause an allergic skin reaction.

Causes serious eye damage.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause respiratory irritation.

May cause genetic defects.

May cause cancer.

Suspected of damaging fertility or the unborn child.

Causes damage to organs through prolonged or repeated exposure.

Causes severe burns.

Protection of First Aiders

First Aid responders should pay attention to self-protection and use the recommended protective clothing. No artificial respiration, mouth-to-mouth or mouth to nose. Use suitable instruments/apparatus.

Notes to Physician

For specialist advice physicians, should contact the Poison Control Center.

SECTION 5. FIREFIGHTING MEASURES**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

No information available.

Specific Hazards During Fire

Strong oxidizer. Contact with other material may cause fire.

Hazardous Combustion Products

Oxygen

Chromium compounds

Specific Extinguishing Methods

Use a water spray to cool fully closed containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. DO NOT use combustible materials such as sawdust. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special Protective Equipment Fighters

Exposure to decomposition products may be a hazard to firefighter's health. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Use personal protective equipment.

Evacuate personnel to safe areas.

Keep people away from and upwind of spill/leak.

Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust).

Environmental Precautions

Should not be released into the environment.

Local authorities should be advised if significant spillages cannot be contained.

Methods and Materials for Containment and Cleanup

Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).

Shovel or sweep up.

DO NOT use combustible materials such as sawdust

Keep in suitable, closed containers for disposal.

Clean contaminated floors and objects thoroughly while observing environmental regulations.

SECTION 7. HANDLING and STORAGE

Advice on Safe Handling

For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the application area.

Handle in accordance with good industrial hygiene and safety practice.

In case of insufficient ventilation, wear suitable respiratory equipment.

Avoid breathing dust.

Keep away from clothing and other combustible materials.

Conditions for Safe Storage

Keep containers tightly closed in a dry, cool and well-ventilated place.

Keep locked up or in an area accessible only to qualified or authorized persons.

May be corrosive to metals.

Recommended Storage Temperature

-5 - 40°C temperature

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ingredients with Workplace Control Parameters

Ingredients	CAS No	Value Type (Form of Exposure)	Control Parameters/Permissible Concentration	Basis
Chromium Trioxide	1333-82-0	TWA	0.05 mg/m ³ (chromium)	ACGIH
		PEL	0.005 mg/m ³ (chromium)	OSHA CARC
		TWA	0.0002 mg/m ³ (chromium)	NIOSH REL

Personal Protective Equipment

Respiratory Protection

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. In case of insufficient ventilation, wear suitable respiratory equipment.

Hand Protection

Wear protective gloves. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Follow the instructions for use issued by the producer.

Eye Protection

Tightly fitting safety goggles

Face-shield

Ensure that eyewash stations and safety showers are close to the workstation location.

Skin and Body Protection

Impervious clothing

Apron

Boots

Protective Measures/Engineering Measures

Ensure adequate ventilation, especially in confined areas.

Hygiene Measures

Avoid contact with skin, eyes and clothing.

Wash hands before breaks and immediately after handling the product.

When using do not eat, drink or smoke.

Avoid breathing dust.

SECTION 9. PHYSICAL and CHEMICAL PROPERTIES

Appearance	Solid
Color	Red brown, Dark red
Odor	No information available.
Odor Threshold	No data available
pH	< 2
Melting Point/Freezing Point	197°C
Initial Boiling Point/Boiling Range	Not determined
Flash Point	Not applicable
Evaporation Rate	Not applicable
Flammability (solid, gas)	Not classified as a flammability hazard
Upper Explosion Limits	No data available
Lower Explosion Limits	No data available
Vapor Pressure	Not determined
Relative Vapor Density	Not applicable
Density	2.65 - 2.75 g/cm ³
Solubility(ies)	
Water solubility	Soluble
Partition Coefficient	
n- octanol/water	No data available
Auto-Ignition Temperature	No data available
Thermal Decomposition	No data available
Viscosity	
Viscosity, Dynamic	No data available
Viscosity, Kinematic	No data available
Oxidizing Properties	The substance or mixture is classified as oxidizing with the category 1.

SECTION 10. STABILITY and REACTIVITY

Reactivity

May cause fire or explosion; strong oxidizer.

May be corrosive to metals.

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

Gives off hydrogen by reaction with metals.

Risk of violent reaction.

Potential for exothermic hazard

Conditions to Avoid

Dust formation.

To avoid thermal decomposition, do not overheat.
Exposure to moisture.

Incompatible Materials

Combustible material
Metals Bases
Reducing agents
Organic materials

Hazardous Decomposition Product

Chromium oxides

SECTION 11. TOXICOLOGICAL INFORMATION**Information on Likely Routes of Exposure**

Inhalation

Ingestion

Eye Contact

Skin Absorption

Acute Toxicity

Toxic if swallowed.
Fatal in contact with skin or if inhaled.

Ingredients

Chromium trioxide

Acute Oral Toxicity

Acute toxicity estimate: 100 mg/kg

Acute Inhalation Toxicity

LC50 (Rat): 0.167 mg/l Exposure time: 4 h

Test Atmosphere

Dust/mist

Acute Dermal Toxicity

LD50 Dermal (Rabbit): 57 mg/kg

Remarks

The acute toxicity estimate (ATE) of the ingredients are derived using the LD50/LC50 values.

Skin Corrosion/Irritation

Causes severe burns.

Product Remarks

Extremely corrosive and destructive to tissue.

Serious Eye Damage/Eye Irritation

Causes serious eye damage.

Product Remarks

May cause irreversible eye damage.

Skin Sensitization

May cause an allergic skin reaction.

Respiratory Sensitization

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Product Remarks

Causes sensitization.

Germ Cell Mutagenicity

May cause genetic defects.

Carcinogenicity

May cause cancer.

IARC

Group 1: Carcinogenic to humans

Chromium trioxide 1333-82-0

ACGIH

Confirmed human carcinogen

Chromium trioxide 1333-82-0

OSHA Specified

OSHA specifically regulated carcinogen

Chromium trioxide 1333-82-0

NTP

Known to be human carcinogen

Chromium trioxide 1333-82-0

Reproductive Toxicity

Suspected of damaging fertility or the unborn child.

STOT - Single Exposure

May cause respiratory irritation.

Product

Target Organs: Respiratory system

STOT - Repeated Exposure

Causes damage to organs through prolonged or repeated exposure.

Product Target Organs

No specific target organs noted

Aspiration Toxicity

Not classified based on available information.

Further Information – Product Remarks

No data available

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Ingredients**

Chromium trioxide

Toxicity to Fish

LC50: 40 mg/l

Exposure time: 96 h

Toxicity to Daphnia and Other Aquatic Invertebrates

EC50: 0.162 mg/l

Exposure time: 48 h

Persistence and Degradability

No data available

Bio-Accumulative Potential

No data available

Mobility in Soil

No data available

Other Adverse Effects

No data available

Product

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods
Waste from Residues

Dispose of in accordance with local regulations. Dispose of wastes in an approved waste disposal facility.

Contaminated Packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

International Regulations
UNRTDG

UN Number	UN 1463
Proper Shipping Name	Chromium Trioxide, Anhydrous
Class	5.1
Subsidiary Risk	6.1,
Packing Group	II
Labels	5.1 (6.1, 8)

IATA-DGR

UN/ID Number	UN 1463
Proper Shipping Name	Chromium Trioxide, Anhydrous
Class	5.1
Subsidiary Risk	6.1, 8
Packing Group	II
Labels	Oxidizer, Toxic, Corrosive
Packing Instruction (Cargo Aircraft)	562
Packing Instruction (Passenger Aircraft)	558

IMDG-Code

UN Number	UN 1463
Proper Shipping Name	Chromium Trioxide, Anhydrous
Class	5.1
Subsidiary Risk	6.1, 8
Packing Group	II
Labels	5.1 (6.1, 8)
EmS Code	F-A, S-Q
Marine Pollutant	Yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic Regulation
DOT/49 CFR

UN/ID/NA Number	UN 1463
Proper Shipping Name	Chromium Trioxide, Anhydrous
Class	5.1
Subsidiary Risk	6.1, 8
Packing Group	II
Labels	Oxidizer, poison, corrosive
ERG Code	141
Marine Pollutant	No

SECTION 15. REGULATORY INFORMATION

TSCA 5a

Not relevant

TSCA 12b

Chromium trioxide

DEA

Not applicable

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

Ingredient	CAS No	Component RQ (lbs)	Calculated product RQ (lbs)
Chromium Trioxide	1333-82-0	10	10

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a Section 304 EHS RQ.

SARA 311/312 Hazards:

Acute Health Hazard

Chronic Health Hazard Fire Hazard

SARA 302

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313

The following components are subject to reporting levels established by SARA Title III, Section 313:

Chromium trioxide 1333-82-0

Massachusetts Right to Know

Chromium Trioxide 1333-82-0 80 - 100 %

Pennsylvania Right to Know

Chromium Trioxide 1333-82-0 80 - 100 %

New Jersey Right to Know

Chromium Trioxide 1333-82-0 80 - 100 %

California Prop 65

WARNING! This product contains a chemical known in the State of California to cause cancer.

Chromium trioxide 1333-82-0

WARNING! This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.

Chromium trioxide 1333-82-0

Remarks

Components which are only displayed in Section 15 are being reported for local regulatory purposes. These components are not displayed in Section 3 due to one or more of the following conditions being met: being present in the product at concentration(s) below threshold limit values for reporting, not considered hazardous materials, health hazards or because they do not contribute to the overall GHS Classification of the final product as required by OSHA HazCom 2012 final rule (29 CFR 1910.1200).

Substances currently restricted by WEEE/RoHS (European Directive 2002/96/EC, 2002/95/EC) or ELV (European Directive 2000/53/EC):

PBDE	PBB	CrVI	Hg	Pb	Cd
-	-	>0,1 %	-	-	-

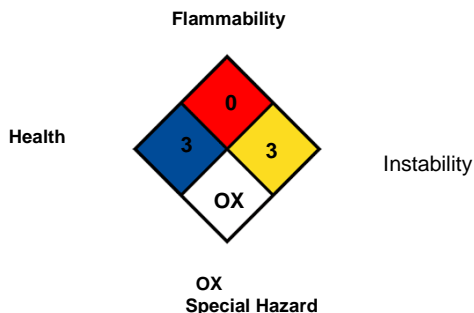
Please Note

Current legislation restricting the use of certain substances applies to "homogeneous material" in finished articles being supplied to the market. Substances deposited during surface finishing may have a composition (weight percent) higher than the weight percent of the substance in the operating solution from which the deposit is made. Martron Inc. encourages its customers to implement systems to ensure their finished products comply with the regulations in force.

SECTION 16. OTHER INFORMATION

Further Information

NFPA:



HMIS III:

HEALTH	3*
FLAMMABILITY	0
PHYSICAL HAZARD	3

0 = Not significant,
 1 = Slight,
 2 = Moderate
 3 = High
 4 = Extreme,
 * = Chronic

The information provided in this Safety Data Sheet (SDS) is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.