

SAFETY DATA SHEET
TRIVECTA BLACK A-24
469900

SECTION 1: COMPANY AND MIXTURE IDENTIFICATION

1.1 Product Name: TRIVECTA BLACK A-24

1.2 Product Type and Use: Metal Finishing Additives.

1.3 Manufacturer:

Columbia Chemical Corp.
1000 Western Drive
Brunswick, OH, 44212
330-225-3200
eh&s@columbiachemical.com

Only Representative:

Intertek France
Campus Industrial Grand
Chalon Route de Demigny
Chalon Sur Saone
France, 71102
T: +33 (0) 385 99 1280

1.4 Emergency Telephone Numbers CHEMTEL
US & CANADA 800-255-3924
INTERNATIONAL 01-813-248-0585

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the mixture according to GHS (EC 1272 -2008)

Skin Corr. 1B, H314
Skin Sens. 1, H317
Eye Irrit. 2A, H319
Aquatic Chronic 3, H412

2.2 GHS Pictograms and H/P Statements



Signal Word: **Danger**

Hazard and Precautionary Statements:

H314B: Causes severe skin burns and eye damage.

H319: Causes serious eye irritation

P260: Do not breathe dust/fume/gas/mist/vapours/spray.

P273: Avoid release to the environment.

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

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

P337+P313: If eye irritation persists: Get medical advice/attention.

H317: May cause an allergic skin reaction

H412: Harmful to aquatic life with long lasting effects.

P264: Wash thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

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

P310: Immediately 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] |
|--------------------|--|-------|---|
| IRON SOLUTION | CAS no. T.S. EC no. T.S. Reach no. Low volume exempt JCSL no. 1-359 | < 10% | Metal Corr. 1, H290 Acute Tox. 4, H302 Eye Irrit. 2, H319 Skin Irrit. 2, H315 |
| PHOSPHORIC ACID | CAS no. 7664-38-2 EC no. 231-791-2 Reach no. Low Volume Exempt JCSL no. 1-422 | < 8% | Skin Corr. 1B, H314 |
| CHROME III COMPLEX | CAS no. T.S. EC no. 236-921-1 Reach no. 05-2118253045-50 JCSL no. 1-281 | < 5% | Ox. Liq 3, H272 Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Aquatic Chronic 2, H411 |
| AMMONIUM CHLORIDE | CAS no. 12125-02-9 EC no. 235-186-4 Reach no. Low Volume Exempt JCSL no. 1-218 | < 5% | Acute Tox. 4, H302 Eye Irrit. 2, H319 |
| SODIUM HYDROXIDE | CAS no. 1310-73-2 EC no. 215-185-5 Reach no. Low Volume Exempt JCSL no. 2-1972, 1-410 | < 3 % | Skin Corr. 1A, H314 |

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

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| 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

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| Symptoms/Injuries: | Causes severe burns. Symptoms might include pain, redness, and tissue damage. |
| Inhalation: | Inhalation of mist may cause irritation of the respiratory system. |
| Skin contact: | Causes severe burns. Symptoms might include pain, redness, and tissue damage. |
| Eye contact: | Causes serious damage to the eyes. |
| 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: FIRE FIGHTING 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

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| 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-D

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 Non-emergency personnel

Ensure adequate ventilation, Use personal protective equipment.

6.1.2 Emergency responders

Ensure adequate ventilation, Use personal protective equipment.

6.2 Environmental precautions

Avoid discharge into soil, water or air.

6.3 Containment and clean up

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| Methods for cleaning up: | 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

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| 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

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| AMMONIUM CHLORIDE (12125-02-9) USA | ACGIH - TEL | 10 mg/m3 |
| CHROME III COMPLEX (T.S.) USA | ACGIH - TEL | 0.5 mg/m3 Cr (III) |
| IRON SOLUTION (T.S.) USA | ACGIH - TEL | 1.0 mg/m3 Fe (III) |
| PHOSPHORIC ACID (7664-38-2) USA | ACGIH - TEL | 1.0 mg/m3 |
| SODIUM HYDROXIDE (1310-73-2) USA | ACGIH - TEL | 2.0 mg/m3 |

8.2 Exposure Controls

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| 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

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|---------------------------------------|--------------------------|-----------------------------------|-------------------|
| Appearance: | Dark Green Solution | Flammability (solid,gas): | No data available |
| Odour: | No data available | Explosive Limits: | No data available |
| Odour Threshold: | No data available | Vapor Pressure: | No data available |
| pH: | 1.5 - 2.5 (15% solution) | Vapour Density: | No data available |
| Melting Point: | No data available | Relative Density: | 1.21 - 1.24 |
| Solidification Point: | No data available | Solubility: | Complete 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 butylacetate: | No data available | Viscosity: | No data available |

SECTION 10: STABILITY AND REACTIVITY

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| 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 and chromium. |

SECTION 11: TOXICOLOGICAL INFORMATION**11.1 Toxicological effects**

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| 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: | May cause an allergic skin reaction. |
| Embryotoxic, Teratogenic, or Mutagenic: | No components identified at 0.1% or greater as causing Embryotoxic, Teratogenic, or Mutagenic effects. |
| Carcinogenicity: | No components listed as carcinogen or suspect carcinogen by IARC, NTP, EU or OSHA at 0.1% or greater. |
| Reproductive or Gonadotoxicity: | No components identified at 0.1% or greater as causing Reproductive or Gonadotoxic effects. |
| Specific target organ toxicity (single exposure): | No known Specific Target Organ Toxicity when used as directed. |

CARCINOGENS :

| | | | |
|---------------|------|---------------|------|
| IARC : | NONE | OSHA : | NONE |
| NTP : | NONE | EU : | NONE |

SECTION 12: ECOLOGICAL INFORMATION

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| 12.1 Toxicity | Material is harmful to aquatic life with long lasting effects. |
| 12.2 Persistence & Degradability | No persistence and biodegradability data available. |
| 12.3 Bioaccumulative Potential | No known bioaccumulative potential. |
| 12.4 Mobility in Soil | No known mobility in soils. |
| 12.5 PBT and vPvB Assessment | A PBT or vPvB assessment has NOT been completed for this product. |
| 12.6 Other Adverse Effects | No other adverse effects known. |

SECTION 13: DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

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|-----------------------------------|---|
| 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**U.S. DOT (Land)****Department of Transportation**

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| Proper Shipping Name: | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (TRIVALENT CHROMIUM COMPOUNDS AND PHOSPHORIC ACID) |
| Hazard Class: | 8 |
| UN / NA Number: | 3264 |
| Packing Group: | II |
| Labels Required: | CLASS 8 CORROSIVE |
| Marine Pollutant: | NONE |

I.A.T.A / I.C.A.O. (AIR)**International Air Transportation Authority / International Civil Air Organization**

| | |
|-----------------------|--|
| Proper Shipping Name: | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (TRIVALENT CHROMIUM COMPOUNDS AND PHOSPHORIC ACID) |
| Hazard Class: | 8 |
| UN / NA Number: | 3264 |
| Packing Group: | II |
| Labels Required: | CLASS 8 CORROSIVE |
| Marine Pollutant: | NONE |

I.M.D.G. (Sea)**International Maritime Organization**

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|-----------------------|--|
| Proper Shipping Name: | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (TRIVALENT CHROMIUM COMPOUNDS AND PHOSPHORIC ACID) |
| Hazard Class: | 8 |
| UN / NA Number: | 3264 |
| Packing Group: | II |
| Labels Required: | CLASS 8 CORROSIVE |
| Marine Pollutant: | NONE |

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| ERG Info: | GUIDE #154 |
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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, Xi; R43

DPD Pictograms**Risk and Safety Phrases:**

R34, R43
S22, S23, S26, S36, S37/39, S45, S46, S61

| INGREDIENT | CAS NUMBER | CERCLA | SARA 313 | SARA 302 | REACH SVHC List | ROHS 2 |
|-----------------------------|------------|--------|----------|----------|-----------------|--------|
| AMMONIUM CHLORIDE UNTREATED | 12125-02-9 | X | | | | |
| SODIUM HYDROXIDE | 1310-73-2 | X | | | | |
| CHROME III COMPLEX | T.S. | X | X | | | |
| PHOSPHORIC ACID | 7664-38-2 | X | | | | |

NATIONAL INVENTORIES:

| | | | |
|--------------------|-------------------|----------------------|---------------------------|
| AIICS (Australia): | Components listed | ECN (Taiwan): | Status not determined |
| 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 |

WHMIS: Components listed as WHMIS Class D2B - Materials Causing Other Toxic Effects and Class E - Corrosive Materials.

15.2 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.

16.3 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

16.4 Revision History

10/21/15: Rev. S9.
6/2/15: Rev. GHS format.
11/14/14: New release.