

SAFETY DATA SHEET

COLDIP TRI-V 120

469720

SECTION 1: COMPANY AND MIXTURE IDENTIFICATION

SECTION 2: HAZARDS IDENTIFICATION

1.1 Product Name: COLDIP TRI-V 120

1.2 Product Type and Use: Metal Finishing Additive for

Zinc Coatings on Metals

1.3 Manufacturer: (Galvanic Method).

Columbia Chemical Corp. 1000 Western Drive Brunswick, OH, 44212

eh&s@columbiachemical.com

330-225-3200

CHEMTEL

US & CANADA 800-255-3924 INTERNATIONAL 01-813-248-0585 Only Representative:

Intertek France Zi Ecoparc II 27400 Heudebouville

France

T: +33 (0) 385 99 1280

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

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

1.4 Emergency Telephone Numbers

Aquatic Chronic 2, H411

2.2 GHS Pictograms and H/P Statements









Hazard and Precautionary Statements:

H302: Harmful if swallowed

H334: May cause allergy or asthma symptoms or breathing difficulties if

inhaled

H350 1B: May cause cancer.

H411: Toxic to aquatic life with long lasting effects.

P201: Obtain special instructions before use. P264: Wash thoroughly after handling.

P273: Avoid release to the environment.

P285: In case of inadequate ventilation wear respiratory protection.

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.

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

2.3 Additional Information:

NONE

H314A: Causes severe skin burns and eye damage.

H341: Suspected of causing genetic defects

Signal Word: DANGER

H360 1B: May damage fertility or the unborn child.

P260: Do not breathe dust, fume, gas, mist, vapours, spray. P270: Do no eat, drink or smoke when using this product.

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

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

P304+P341: IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

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

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

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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. 01-2119987047-27-0009 JCSL no. 1-281	< 18.5%	Ox. Liq 3, H272 Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Aquatic Chronic 2, H411
AMMONIUM BIFLOURIDE	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
2, 3-DIHYDROXYBUTANEDIOIC ACID	CAS no. 87-69-4 EC no. 201-766-0 Reach no. Low volume exemption JCSL no. 2-1456	< 2%	Acute Tox. 4, H302 Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 STOT SE 3, H335
COBALT SALT	CAS no. T.S. EC no. 233-334-2 Reach no. 01-2119517426-41 JCSL no. 1 - 270	< 2%	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

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing

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 symptons and effect

acute and delayed

5.3 Advice for firefighters

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: 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.

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

6.1.1 Non-emergency personnelEnsure 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

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

7.1 Precautions for safe handling

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

7.2 Storage and Incompatibles

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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.

Metal Finishing

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Control Parameters

7.3 Specific end use(s)

2, 3-DIHYDROXYBUTANEDIOIC ACID (87	'-69-4) ACGIH - TEL	10 mg/m3	
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	

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 phyiscal and chemical properties

Appearance: Blue-green liquid Flammability (solid,gas): No data available Slight odor No data available Odour: **Explosive Limits:** Odour Threshhold: No data available Vapor Pressure: No data available 1.0 - 3.0 No data available pH: Vapour Density: 1.240 - 1.280 **Melting Point:** No data available Relative Density: **Solidification Point:** < water Solubility: Complete in water **Boiling Point:** Self Ignition Temperature: No data available No data available Decomposition Temperature: No data available Flash point: Similar to water Evap rate rel to butylacetate: No data available Viscosity:

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 productsOxides of nitrogen, chromium and sulfur.

SECTION 11: TOXICOLOGICAL INFORMATION

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11.1 Toxicological effects

Acute toxicity: No known acute toxicity effects when used as directed.

Skin corrosion/irritation: Causes serious eye damage and skin irritation.

Respiratory or skin No known skin sensitization affects when used as directed. sensitization:

Embryotoxic, Teratogenic,

May damage fertility or the unborn child.

or Mutagenic: Carcinogenicity:

Products that contain cobalt salts may cause cancer based on testing data. Risk of cancer

depends on level of exposure.

Reproductive or Product has components that may damage fertility or the unborn child. Gonadotoxicity:

Specific target organ toxicity (sinlge exposure): No known Specific Target Organ Toxicity when used as directed

CARCINOGENS:

IARC: YES OSHA: YES NTP: YES EU: YES

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity Material is harmful to aquatic life with long lasting effects.

No persistence and biodegradability data available. 12.2 Persistence & Degradability

No known bioaccumalative potential. 12.3 Bioaccumulative Potential

12.4 Mobility in Soil Spillage of material can lead to penetration into soil and groundwaters

12.5 PBT and vPvB Assessment This product does NOT contain substances which are persistent, bioaccumulative and toxic, or substances

that are very persistent or very bioaccumulative per REACH Annex XIII.

12.6 Other Adverse Effects No other adverse affects 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

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

Proper Shipping Name: CORROSIVE LIQUID. ACIDIC. INORGANIC. N.O.S. (AMMONIUM

BIFLUORIDE AND TRIVALENT CHROMIUM COMPOUNDS)

Hazard Class: UN / NA Number: 3264 Packing Group: Ш

CLASS 8 CORROSIVE Labels Required:

Marine Pollutant: NO

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. (AMMONIUM

BIFLUORIDE AND TRIVALENT CHROMIUM COMPOUNDS)

Hazard Class: 8 UN / NA Number: 3264 Packing Group: Ш

Labels Required: **CLASS 8 CORROSIVE**

Marine Pollutant: NO

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

Proper Shipping Name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (AMMONIUM

BIFLUORIDE AND TRIVALENT CHROMIUM COMPOUNDS)

Hazard Class: UN / NA Number: 3264 Packing Group:

Labels Required: **CLASS 8 CORROSIVE** Marine Pollutant: MARINE POLLUTANT

FRG Info: 154 NONE Reportable Quantity:

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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.

INGREDIENT	CAS NUMBER	CERCLA	SARA 313	SARA 302	REACH SVHC List	ROHS 2
AMMONIUM BIFLUORIDE	1341-49-7	Х	X			
CHROME III COMPLEX	T.S.	X	X			
COBALT SALT	T.S.		X		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	NZloC (New Zealand):	Components listed
EINECS (Europe):	Components listed	PICCS (Philippines):	Components listed
ENCS (Japan):	Components listed	SWISS (Switzerland):	Not all components listed
IECSC (China):	Components listed	TSCA (USA):	Components listed

WHMIS: Components listed as CANADA WHMIS Class D1B - Toxic material causing immediate and

serious toxic effects.

Components listed as CANADA WHMIS Class E - Corrosive Materials.

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

${\bf SECTION~16:OTHER~INFORMATION}$

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 8/2/17: removed DPD information

8/19/16: Rev. S2.2 and 7 5/5/15: Rev. format. 4/28/15: Rev. sections. 11/19/14: Rev. S1 and S11 10/23/14: Rev. S16