

SAFETY DATA SHEET

COLDIP TRI-V 121

469740

	SECTION 1: COMPANY AND MIXTURE IDENTIFICATION				
1.1 Product Name:	COLDIP TRI-V 121				
1.2 Product Type and Use:	Metal Finishing Additives				
1.3 Manufacturer:		Only Representative:			
	Columbia Chemical Corp. 1000 Western Drive	Intertek France Zi Ecoparc II			
	Brunswick, OH, 44212	27400 Heudebouville			
	330-225-3200	France			
	eh&s@columbiachemical.com	T: +33 (0) 385 99 1280			
1.4 Emergency Telephone Numbers	CHEMTEL				
	US & CANADA 800-255-3924				
	INTERNATIONAL 01-813-248-0585				
	SECTION 2: HAZ	ARDS IDENTIFICATION			
2.1 Classification of the mixture according	ng to GHS (EC 1272 -2008)	2.2 GHS Pictograms and H/P Statements			
Acute Tox. 4 (Oral), H302					
Skin Corr. 1A, H314					
Resp. Sens. 1, H334					
Muta. 2, H341					
Carc. 1B, H350					
Repr. 1B, H360 Aquatic Chronic 2, H411					
, (quaio olimonio 2, 1111		Signal Word: DANGER			
		3			
Hazard and Precautionary Statements:					
H302: Harmful if swallowed		H314A: Causes severe skin burns and eye damage.			
H334: May cause allergy or asthma symptoms or breathing difficulties if		H341: Suspected of causing genetic defects			
inhaled					
H350 1B: May cause cancer.		H360 1B: May damage fertility or the unborn child.			
H411: Toxic to aquatic life with long lasting effects.					
P201: Obtain special instructions before	e use.	P202: Do not handle until all safety precautions have been read and understood.			
P260: Do not breathe dust, fume, gas, r	nist, vapours, spray.	P261: Avoid breathing dust/fume/gas/mist/vapours/spray.			
P264: Wash thoroughly after handling.		P270: Do no eat, drink or smoke when using this product.			
P272: Contaminated work clothing shou	ld not be allowed out of the	P273: Avoid release to the environment.			
workplace. P280: Wear protective gloves/protective	clothing/eve protection/face	P281: Use personal protective equipment as required.			
protection.					
P285: In case of inadequate ventilation wear respiratory protection.		P301+P312: IF SWALLOWED: Call a POISON CENTER or			
P301+P330+P331: IF SWALLOWED: ri	inse mouth. Do NOT induce	doctor/physician if you feel unwell. P302+P350: IF ON SKIN: Gently wash with plenty of soap and water.			
P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.					
P304+P340: IF INHALED: Remove to fr	resh air and keep at rest in a	P304+P341: IF INHALED: If breathing is difficult, remove to fresh air and			
position comfortable for breathing. P305+P351+P338: IF IN EYES: Rinse of	soutiously with water for several	keep at rest in a position comfortable for breathing. P308+P313: IF exposed or concerned: Get medical advice/attention.			
minutes. Remove contact lenses, if pres		F300 F313. Il exposed of concerned. Get medical advice/attention.			
rinsing.					
P333+P313: If skin irritation or rash occ	urs: 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	CENTER OF COOLONDINGOUCH.			
local/regional/national/international regu					

2.3 Additional Information:

NONE

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	<40%	Ox. Liq 3, H272 Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Aquatic Chronic 2, H411	
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	
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	
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	
AMMONIUM BIFLOURIDE	CAS no. 1341-49-7 EC no. 215-676-4 Reach no. 05-2118253908-30 JCSL no. 1 - 311	< 2%	Acute Tox. 3, H301 Skin Corr. 1B, H314	

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.				
Inhalation:	Continue rinsing. 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			
Ingestion:	services. 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				
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.				
5.3 Advice for firefighters				
Protection from firefighting: Other Information:	Use self-contained breathing apparatus and chemically protective clothing. For further information refer to section 8, Exposure-controls/personal protection. Avoid eye and skin contact.			
Guler mormation.	HMIS: 3-0-1-J			
	TIWIO. 0-0-1-0			
	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				
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 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		
7.3 Specific end use(s)	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

2, 3-DIHYDROXYBUTANEDIOIC ACID USA	(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	
SODIUM HYDROXIDE (1310-73-2) USA	ACGIH - TEL	2.0 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 phyiscal and chemical properties

Appearance:	Dark blue green liquid	Flammability (solid,gas):	No data available
Odour:	Sharp acidic odor	Explosive Limits:	No data available
Odour Threshhold:	No data available	Vapor Pressure:	No data available
pH:	1.8 - 2.6 (5% Solution)	Vapour Density:	No data available
Melting Point:	No data available	Relative Density:	1.260 - 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 butylacetate:	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 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 Gonadotoxicity:	Product has components that may damage fertility or the unborn child.		
Specific target organ toxicity (sinlge exposure):	No known Specific Target Organ Toxicity when used as directed.		
toxicity (sinige exposure).			
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.		
12.2 Persistence & Degradability 12.3 Bioaccumulative Potential	No persistence and biodegradability data available. No known bioaccumalative potential.		
12.4 Mobility in Soil 12.5 PBT and vPvB Assessment	Spillage of material can lead to penetration into soil and groundwaters. 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:	8		
UN / NA Number:	3264		
Packing Group:	II		
Labels Required:	CLASS 8 CORROSIVE		
Marine Pollutant:	NO		
I.A.T.A / I.C.A.O. (AIR)	International Air Transportation Authority / International Civil		
	Air Organization		
Proper Shipping Name:	Air Organization CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (AMMONIUM BIFLUORIDE AND TRIVALENT CHROMIUM		
	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (AMMONIUM BIFLUORIDE AND TRIVALENT CHROMIUM COMPOUNDS)		
Hazard Class:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (AMMONIUM BIFLUORIDE AND TRIVALENT CHROMIUM COMPOUNDS) 8		
Hazard Class: UN / NA Number:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (AMMONIUM BIFLUORIDE AND TRIVALENT CHROMIUM COMPOUNDS) 8 3264		
Hazard Class: UN / NA Number: Packing Group:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (AMMONIUM BIFLUORIDE AND TRIVALENT CHROMIUM COMPOUNDS) 8 3264 II		
Hazard Class: UN / NA Number: Packing Group: Labels Required:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (AMMONIUM BIFLUORIDE AND TRIVALENT CHROMIUM COMPOUNDS) 8 3264 II CLASS 8 CORROSIVE		
Hazard Class: UN / NA Number: Packing Group:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (AMMONIUM BIFLUORIDE AND TRIVALENT CHROMIUM COMPOUNDS) 8 3264 II		
Hazard Class: UN / NA Number: Packing Group: Labels Required:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (AMMONIUM BIFLUORIDE AND TRIVALENT CHROMIUM COMPOUNDS) 8 3264 II CLASS 8 CORROSIVE		
Hazard Class: UN / NA Number: Packing Group: Labels Required: Marine Pollutant:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (AMMONIUM BIFLUORIDE AND TRIVALENT CHROMIUM COMPOUNDS) 8 3264 II CLASS 8 CORROSIVE NO International Maritime Organization CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (AMMONIUM BIFLUORIDE AND TRIVALENT CHROMIUM		
Hazard Class: UN / NA Number: Packing Group: Labels Required: Marine Pollutant: I.M.D.G. (Sea)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (AMMONIUM BIFLUORIDE AND TRIVALENT CHROMIUM COMPOUNDS) 8 3264 II CLASS 8 CORROSIVE NO International Maritime Organization CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.		
Hazard Class: UN / NA Number: Packing Group: Labels Required: Marine Pollutant: I.M.D.G. (Sea) Proper Shipping Name:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (AMMONIUM BIFLUORIDE AND TRIVALENT CHROMIUM COMPOUNDS) 8 3264 II CLASS 8 CORROSIVE NO International Maritime Organization CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (AMMONIUM BIFLUORIDE AND TRIVALENT CHROMIUM COMPOUNDS)		
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Hazard Class: UN / NA Number: Packing Group: Labels Required: Marine Pollutant: I.M.D.G. (Sea) Proper Shipping Name: Hazard Class: UN / NA Number:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (AMMONIUM BIFLUORIDE AND TRIVALENT CHROMIUM COMPOUNDS) 8 3264 II CLASS 8 CORROSIVE NO International Maritime Organization CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (AMMONIUM BIFLUORIDE AND TRIVALENT CHROMIUM COMPOUNDS) 8 3264		

ERG Info:	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.

INGREDIENT	CAS NUMBER	CERCLA	SARA 313	SARA 302	REACH SVHC List	ROHS 2
AMMONIUM BIFLUORIDE	1341-49-7	х	х			
SODIUM HYDROXIDE	1310-73-2	х				
CHROME III COMPLEX	T.S.	х	х			
COBALT SALT	T.S.		х		х	

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.
15.2 Chemical Safety Assessment	Components listed as CANADA WHMIS Class E - Corrosive Materials. 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

8/2/17: removed DPD information 5/5/15: Rev. S2 and 15. 5/1/15: Rev. new GHS format. 4/8/15: Rev. S2, 3 and 16. 1/31/13: New release