

SAFETY DATA SHEET
COLCLEAN ELECTRO 411L MC
690290

SECTION 1: COMPANY AND MIXTURE IDENTIFICATION

1.1 Product Name: COLCLEAN ELECTRO 411L MC

1.2 Product Type and Use: Metal Finishing Additive

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

2.2 GHS Pictograms and H/P Statements



Signal Word: **DANGER**

Hazard and Precautionary Statements:

H314B: Causes severe skin burns and eye damage.

P264: Wash thoroughly after handling.

P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

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

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.

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]
POTASSIUM HYDROXIDE	CAS no. 1310-58-3 EC no. 215-181-3 Reach no. Low volume exemption JCSL no. 1-369	< 5%	Acute Tox. 4, H302 Skin Corr. 1A, H314
SODIUM METASILICATE	CAS no. 6834-92-0 EC no. 229-912-9 Reach no. Low volume exemption JCSL no. 1-508	< 5%	Skin Corr. 1B; H314 STOT SE 3; H335

SECTION 4: FIRST AID MEASURES**4.1 Description of first aid measures**

Eye Contact:	Immediately flush eyes with flowing water for at least TWENTY (20) minutes. Call emergency medical services.
Skin Contact:	Flush exposed area with running water for at least TWENTY (20) minutes. Remove and isolate contaminated clothing. Get medical attention.
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 eye irritation, burns or blindness.
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:	May cause serious eye irritation and redness.
Ingestion:	Sore throat. Abdominal pain, nausea. May cause burns or irritation of the linings of the mouth, throat and gastrointestinal tract.

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:	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: 2-0-0-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

Methods for cleaning up:	May be hazardous to aquatic life if released to open waters. Carefully sweep up spilled material and transfer to a suitable container for disposal, Contain spilled material and ventilate area.
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

POTASSIUM HYDROXIDE (1310-58-3) USA	ACGIH - TEL	2.0 mg/m3
SODIUM METASILICATE (6834-92-0) USA	ACGIH - TEL	10 mg/m3 (as Si)

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:	To reduce exposure a NIOSH-approved respirator should be used.
Hand Protection:	Wear chemical resistant rubber gloves.
Eye Protection:	Wear chemical safety glasses
Skin Protection:	Wear protective clothing as appropriate.
Other:	Laundry contaminated clothing before reuse.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Clear yellow/amber liquid	Flammability (solid,gas):	No data available
Odour:	No odor	Explosive Limits:	No data available
Odour Threshold:	No data available	Vapor Pressure:	No data available
pH:	> 12.0	Vapour Density:	No data available
Melting Point:	No data available	Relative Density:	1.07 - 1.13
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 stable at normal conditions.
10.2 Chemical Stability	Product is stable under normal conditions only. Product may not be stable under heat, moisture, pressure ventilation or exposure to incompatible or reactive 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	Product contains some organic materials which may decompose into oxides of carbon.

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 respiratory or skin sensitization affects when used as directed.
Embryotoxic, Teratogenic, or Mutagenic:	None.
Carcinogenicity:	None.
Reproductive or Gonadotoxicity:	None.
Specific target organ toxicity (single exposure):	May cause respiratory irritation.

CARCINOGENS :

IARC :	NONE	OSHA :	NONE
NTP :	NONE	EU :	NONE

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity	Material is harmful to aquatic life if enough is released into waterways.
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 assesment has NOT been completed for this product.
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, BASIC, INORGANIC, N.O.S. (POTASSIUM HYDROXIDE AND SODIUM METASILICATE)
Hazard Class:	8
UN / NA Number:	3266
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, BASIC, INORGANIC, N.O.S. (POTASSIUM HYDROXIDE AND SODIUM METASILICATE)
Hazard Class:	8
UN / NA Number:	3266
Packing Group:	II
Labels Required:	CLASS 8 CORROSIVE
Marine Pollutant:	NONE

I.M.D.G. (Sea)

International Maritime Organization	
Proper Shipping Name:	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (POTASSIUM HYDROXIDE AND SODIUM METASILICATE)
Hazard Class:	8
UN / NA Number:	3266
Packing Group:	II
Labels Required:	CLASS 8 CORROSIVE
Marine Pollutant:	NONE

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

14.5 Environmental Hazards

This mixture may be considered environmentally hazardous according to the UN Model Regulations and is 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

DPD Pictograms



Risk and Safety Phrases:
R22, R34, R35, R37, S13, S24/25, S26, S36/37/39, S45

INGREDIENT	CAS NUMBER	CERCLA	SARA 313	SARA 302	REACH SVHC List	ROHS 2
POTASSIUM HYDROXIDE	1310-58-3	X				

NATIONAL INVENTORIES:

AICS (Australia):	Components listed	ECN (Taiwan):	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

WHMIS:

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

5/8/15: Rev. per GHS SDS.
11/13/13: New release.