

**SECTION 1: COMPANY AND MIXTURE IDENTIFICATION**

**1.1 Product Name:** COLPHOS ZN 35

**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. 1A, H314

**2.2 GHS Pictograms and H/P Statements**



Signal Word: **DANGER**

**Hazard and Precautionary Statements:**

H314A: Causes severe skin burns and eye damage.

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

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.

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

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

P264: Wash thoroughly after handling.

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

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

P363: Wash contaminated clothing before reuse.

**2.3 Additional Information:**

NONE

**SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

Name	Product Identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
PHOSPHORIC ACID	CAS no. 7664-38-2 EC no. 231-791-2 Reach no. Low volume exempt JCSL no. 1-422	< 30%	Skin Corr. 1B, H314
NITRIC ACID	CAS no. 7697-37-2 EC no. 231-714-2 Reach no. Low volume exemption JCSL no. 1-394	< 15%	Oxid. Liquid 3, H272 Skin Corr. 1A, H314

**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 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**

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: 3-0-2-C

**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:	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 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

<b>NITRIC ACID (7697-37-2)</b> USA	ACGIH - TEL	5 mg/m3
<b>PHOSPHORIC ACID (7664-38-2)</b> USA	ACGIH - TEL	1.0 mg/m3

## 8.2 Exposure Controls

<b>Exposure Controls:</b>	Maintain employee exposures to levels below the applicable exposure limits.
<b>Ventilation:</b>	Use local or general exhaust to reduce airborne exposures.
<b>Respiratory Protection:</b>	To reduce exposure a NIOSH-approved respirator should be used.
<b>Hand Protection:</b>	Wear chemical resistant rubber gloves.
<b>Eye Protection:</b>	Wear chemical safety glasses and/or face shield.
<b>Skin Protection:</b>	Wear protective clothing as appropriate.
<b>Other:</b>	Laundry contaminated clothing before reuse.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

## 9.1 Information on basic physical and chemical properties

<b>Appearance:</b>	Clear Viscous Liquid	<b>Flammability (solid,gas):</b>	No data available
<b>Odour:</b>	Slight Acidic Odor	<b>Explosive Limits:</b>	No data available
<b>Odour Threshold:</b>	No data available	<b>Vapor Pressure:</b>	No data available
<b>pH:</b>	< 2.0	<b>Vapour Density:</b>	No data available
<b>Melting Point:</b>	No data available	<b>Relative Density:</b>	1.50 - 1.70
<b>Solidification Point:</b>	No data available	<b>Solubility:</b>	Complete in water
<b>Boiling Point:</b>	No data available	<b>Self Ignition Temperature:</b>	No data available
<b>Flash point:</b>	No data available	<b>Decomposition Temperature:</b>	No data available
<b>Evap rate rel to butylacetate:</b>	No data available	<b>Viscosity:</b>	No data available

## SECTION 10: STABILITY AND REACTIVITY

<b>10.1 Reactivity</b>	Product is an acidic solution and may react vigorously with alkaline solutions.
<b>10.2 Chemical Stability</b>	Product is stable under normal conditions only. Product may not be stable under heat, moisture, pressure ventilation or exposure to incompatible or reactive materials.
<b>10.3 Possibility of hazardous reactions</b>	Product will not undergo polymerization.
<b>10.4 Conditions to avoid</b>	Keep away from heat. Keep out of direct sunlight.
<b>10.5 Incompatible materials</b>	Product may react with strong acidic and strong basic solutions.
<b>10.6 Hazardous decomposition products</b>	Oxides of nitrogen, chromium and sulfur.

## SECTION 11: TOXICOLOGICAL INFORMATION

## 11.1 Toxicological effects

<b>Acute toxicity:</b>	No known acute toxicity effects when used as directed.
<b>Skin corrosion/irritation:</b>	Causes severe skin burns and eye damage.
<b>Respiratory or skin sensitization:</b>	May cause skin or respiratory sensitization with susceptible persons.
<b>Embryotoxic, Teratogenic, or Mutagenic:</b>	None.
<b>Carcinogenicity:</b>	None.
<b>Reproductive or Gonadotoxicity:</b>	None.
<b>Specific target organ toxicity (single exposure):</b>	None.

## CARCINOGENS :

<b>IARC :</b>	NONE	<b>OSHA :</b>	NONE
<b>NTP :</b>	NONE	<b>EU :</b>	NONE

## SECTION 12: ECOLOGICAL INFORMATION

<b>12.1 Toxicity</b>	Material may be harmful to aquatic life if enough is released into waterways.
<b>12.2 Persistence &amp; Degradability</b>	No persistence and biodegradability data available.
<b>12.3 Bioaccumulative Potential</b>	No known bioaccumulative potential.
<b>12.4 Mobility in Soil</b>	No known mobility in soils.
<b>12.5 PBT and vPvB Assessment</b>	A PBT or vPvB assesment has NOT been completed for this product.
<b>12.6 Other Adverse Effects</b>	No other adverse affects known.

### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

<b>Waste Disposal:</b>	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.
<b>Ecology - waste materials:</b>	Dispose of all waste in accordance with federal, state, and local regulations.

### SECTION 14: TRANSPORTATION INFORMATION

#### U.S. DOT (Land)

<b>Department of Transportation</b>	
Proper Shipping Name:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., (NITRIC ACID 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)

<b>International Air Transportation Authority / International Civil Air Organization</b>	
Proper Shipping Name:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., (NITRIC ACID 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)

<b>International Maritime Organization</b>	
Proper Shipping Name:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., (NITRIC ACID AND PHOSPHORIC ACID)
Hazard Class:	8
UN / NA Number:	3264
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 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

#### DPD Pictograms



**Risk and Safety Phrases:**  
R34, S23, S26, S36, S45

INGREDIENT	CAS NUMBER	CERCLA	SARA 313	SARA 302	REACH SVHC List	ROHS 2
NITRIC ACID SOLUTION	7697-37-2	X	X			
PHOSPHORIC ACID	7664-38-2	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:	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.

**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**

6/4/15: Rev. GHS format.  
1/10/12: New release.