

SECTION 1: COMPANY AND MIXTURE IDENTIFICATION

1.1 Product Name: ZINCATE 16-70

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
 Aquatic Chronic 2, H411

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.

P273: Avoid release to the environment.

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.

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

P391: Collect spillage.

H411: Toxic to aquatic life with long lasting effects.

P264: Wash thoroughly after handling.

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.

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

P363: Wash contaminated clothing before reuse.

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]
SODIUM HYDROXIDE	CAS no. 8012-01-9 EC no. 215-185-5 Reach no. Low volume exemption JCSL no. 2-1972, 1-410	<35%	Skin Corr. 1A, H314
ZINC OXIDE	CAS no. 1314-13-2 EC no. 215-222-5 Reach no. Not available. JCSL no. 1-561	< 10%	Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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-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:	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

SODIUM HYDROXIDE (8012-01-9) USA	ACGIH - TEL	2.0 mg/m3
ZINC OXIDE (1314-13-2) USA	ACGIH - TEL	5.0 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:	To reduce exposure a NIOSH-approved respirator should be used.
Hand Protection:	Wear chemical resistant rubber gloves.
Eye Protection:	Wear chemical safety glasses and/or face shield.
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 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:	13.0 - 14.0	Vapour Density:	No data available
Melting Point:	No data available	Relative Density:	1.48 - 1.525
Solidification Point:	No data available	Solubility:	Low, forms clouds and precipitate
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 alkaline solution and may react vigorously with acidic solutions.
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 solutions.
10.6 Hazardous decomposition products	Oxides of zinc.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Toxicological effects

Acute toxicity:	No known acute toxicity when used as directed.
Skin corrosion/irritation:	Causes severe skin burns and eye damage.
Respiratory or skin sensitization:	No known skin sensitization affects when used as directed.
Embryotoxic, Teratogenic, or Mutagenic:	Product contains no components (at 0.1% or greater) identified as causing Embryotoxic, Teratogenic, or Mutagenic effects.
Carcinogenicity:	Product contains no components (at 0.1% or greater) listed by IARC, NTP, EU and OSHA as a carcinogen or suspect carcinogen.
Reproductive or Gonadotoxicity:	Product contains no components (at 0.1% or greater) listed 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

12.1 Toxicity	Material is toxic to aquatic life with long lasting effects 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)

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

Department of Transportation

I.A.T.A / I.C.A.O. (AIR)

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

International Air Transportation Authority / International Civil Air Organization

I.M.D.G. (Sea)

Proper Shipping Name:	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S., (SODIUM HYDROXIDE)
Hazard Class:	8
UN / NA Number:	3266
Packing Group:	II
Labels Required:	CLASS 8 CORROSIVE
Marine Pollutant:	MARINE POLLUTANT

International Maritime Organization

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

14.5 Environmental Hazards

This mixture is 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 - N; R51/53

DPD Pictograms



Risk and Safety Phrases:

R34, R51/53, S26, S37/39, S45, S60, S61

INGREDIENT	CAS NUMBER	CERCLA	SARA 313	SARA 302	REACH SVHC List	ROHS 2
CAUSTIC SODA	8012-01-9	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

6/15/15: Rev. GHS format.
6/12/14: Revised.