

SAFETY DATA SHEET

NICOL SB STEP 10

401210

SECTION 1: COMPANY AND MIXTURE IDENTIFICATION

1.1 Product Name: NICOL SB STEP 10

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 Number 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 Irrit. 2, H315
 Skin Sens. 1, H317
 Eye Irrit. 2, H319
 Muta. 2, H341
 Carc. 1B, H350

2.2 GHS Pictograms and H/P Statements



Signal Word: **DANGER**

Hazard and Precautionary Statements:

H315: Causes skin irritation
 H319: Causes serious eye irritation
 H350 1B: May cause cancer.
 P201: Obtain special instructions before use.
 P264: Wash thoroughly after handling.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P332+P313: If skin irritation occurs: Get medical advice/attention.
 P337+P313: If eye irritation persists: Get medical advice/attention.

H317: May cause an allergic skin reaction
 H341: Suspected of causing genetic defects

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
 P272: Contaminated work clothing should not be allowed out of the workplace.
 P302+P352: IF ON SKIN: Wash with plenty of soap and water.
 P308+P313: IF exposed or concerned: Get medical advice/attention.
 P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
 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]
2,2,2-TRICHLOROETHANE-1,1-DIOL	CAS no. 302-17-0 EC no. 206-117-5 Reach no. Low Volume Exempt JCSL no. 2-528	< 8%	Acute Tox. 3; H301 Skin Irrit. 2; H315 Eye Irrit. 2; H319
FORMALDEHYDE SOLUTION	CAS no. 50-00-0 EC no. 200-001-8 Reach no. Low Volume Exempt JCSL no. 2-482	< 0.5%	Acute Tox. 3; H301 Acute Tox. 3; H311 Skin Corr. 1B; H314 Skin Sens. 1; H317 Acute Tox. 3; H331 Muta. 2; H341 Carc. 1B; H350

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Eye Contact:	Rinse under running water for several minutes.
Skin Contact:	Flush exposed area with running water for a few minutes.
Inhalation:	Move exposed individual to fresh air.
Ingestion:	Provide two glasses of water if victim is conscious and get medical attention. Never give anything by mouth to an unconscious person.

4.2 Important symptoms and effect

acute and delayed

Symptoms/Injuries:	May be harmful if swallowed. Symptoms include nausea and possible irritation to mouth, throat and esophagus.
Symptoms/injuries after inhalation:	In case of inhalation remove to fresh air. If symptoms persist get medical attention.
Symptoms/injuries after skin contact:	Causes skin irritation and may cause an allergic skin reaction. Symptoms might include redness or irritation.
Symptoms/injuries after eye contact:	Causes serious eye irritation.
Symptoms/Injuries after ingestion:	May be harmful if swallowed. Symptoms include nausea and possible irritation to mouth, throat and esophagus.

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. Use personal protective equipment as described in section (8) of the MSDS.

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: 2-0-1-D

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Ensure adequate ventilation, Use personal protective equipment.

6.1.2 For 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 Conditions for safe storage, including any incompatibilities

Storage Condition(s):	Shelf life is two (2) years from date of manufacture.
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	Store tightly closed in a dry, cool and well-ventilated place.
Incompatible materials:	No specific materials to avoid when used under normal conditions.
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

2,2,2-TRICHLOROETHANE-1,1-DIOL (302-17-0)		
USA	ACGIH - TEL	N/A
FORMALDEHYDE SOLUTION (50-00-0)		
USA	ACGIH - TEL	1 PPM

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 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 Solution	Flammability (solid,gas):	No data available
Odour:	Slight	Explosive Limits:	No data available
Odour Threshold:	No data available	Vapor Pressure:	No data available
pH:	2.5 - 3.5	Vapour Density:	No data available
Melting Point:	No data available	Relative Density:	1.017 - 1.037
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
Relat evapor rate comp 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 skin irritation.
Respiratory or skin sensitization:	May cause an allergic skin reaction.
Embryotoxic, Teratogenic, or Mutagenic:	Formaldehyde is suspected of causing genetic defects and must be noted on SDS at concentrations of 0.1% or greater.
Carcinogenicity:	Formaldehyde is known by IARC, NTP, EU or OSHA as a carcinogen or suspect carcinogen.
Reproductive Toxicity:	No components identified at 0.1% or greater as causing Reproductive or Gonadotoxic effects.
Specific Target Organ Toxicity (STOT):	No known Specific Target Organ Toxicity when used as directed.

CARCINOGENS :

IARC : YES
NTP : YES

OSHA : YES
EU : YES

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity	Material should not harm aquatic life, but avoid all releases to the aquatic environment.
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	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 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

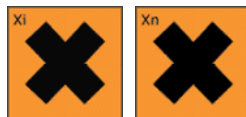
U.S. DOT (LAND)	Not regulated by DOT
I.A.T.A / I.C.A.O (AIR)	Not regulated by IATA
I.M.D.G (SEA)	Not regulated by IMDG

ERG Info:	Not Required.
Reportable Quantity:	None
Placard:	Not 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
 Carc. Cat. 3; R40 - Xi; R36/38/43;

DPD Pictograms**Risk and Safety Phrases:**

R36/38, R43, S25, S26, S36/37/39, S45, S51

INGREDIENT	CAS NUMBER	CERCLA	SARA 313	SARA 302	REACH SVHC List	ROHS 2
FORMALDEHYDE	50-00-0	X	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	NZIoC (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 D2B - Materials Causing Other Toxic Effects.

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

6/20/15: New release.