

SECTION 1: COMPANY AND MIXTURE IDENTIFICATION

1.1 Product Name: MARQUEE BMP-A-11

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)

Acute Tox. 4 (Oral), H302
Skin Irrit. 2, H315
Skin Sens. 1, H317
Acute Tox. 4 (Inhal), H332
Muta. 2, H341
Carc. 1B, H350
Repr. 1B, H360
STOT SR 1, H372
Aquatic Chronic 2, H411

2.2 GHS Pictograms and H/P Statements



Signal Word: **DANGER**

Hazard and Precautionary Statements:

H302: Harmful if swallowed
H317: May cause an allergic skin reaction
H341: Suspected of causing genetic defects
H360 1B: May damage fertility or the unborn child.
H411: Toxic to aquatic life with long lasting effects.
P202: Do not handle until all safety precautions have been read and understood.
P264: Wash thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
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.
P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P391: Collect spillage.

H315: Causes skin irritation
H332: Harmful if inhaled
H350 1B: May cause cancer.
H372: Causes damage to organs through prolonged or repeated exposure.
P260: Do not breathe dust/fume/gas/mist/vapours/spray.
P273: Avoid release to the environment.
P285: In case of inadequate ventilation wear respiratory protection.
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
P362: Take off contaminated clothing and wash 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]
NICKEL SULFATE SOLUTION	CAS no. 7786-81-4 EC no. 232-104-9 Reach no. Low volume exemption JCSL no. 1-813	< 25%	Acute Tox 4, H302, Skin Irrit. 2, H315 Skin Sens 1, H317 Acute Tox 4, H332 Resp. Sens. 1, H334 Muta. 2, H341, Carc. 1B H350 Repr. 1B H350 STOT RE 1 H360 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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 cause skin irritation to some individuals. Symptoms might include redness or irritation.
Symptoms/injuries after inhalation:	In case of inhalation remove to fresh air. If symptoms persist get medical attention.
Symptoms/injuries after skin contact:	May cause skin irritation to some individuals. Symptoms might include redness or irritation.
Symptoms/injuries after eye contact:	May cause some eye irritation.
Symptoms/Injuries after ingestion:	Possible irritation to mouth, throat and esophagus.

4.3 Indication of any immediate medical attention and special treatment needed

No immediate medical attention or special treatment should be required while using this product as specified.

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

HMIS: 1-0-0-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:	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 Conditions for safe storage, including any incompatibilities

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:	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****NICKEL SULFATE SOLUTION (7786-81-4)**

USA

ACGIH - TEL

0.1 mg/m3 (Ni)

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 green solution	Flammability (solid,gas):	No data available
Odour:	Slight odor	Explosive Limits:	No data available
Odour Threshold:	No data available	Vapor Pressure:	No data available
pH:	3.15 - 3.80	Vapour Density:	No data available
Melting Point:	No data available	Relative Density:	1.240 - 1.270
Solidification Point:	Crystals may form <50 F	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 vapor 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:	May cause some skin irritation.
Respiratory or skin sensitization:	May cause skin or respiratory sensitization with susceptible persons.
Embryotoxic, Teratogenic, or Mutagenic:	Suspected of causing genetic defects.
Carcinogenicity:	May cause cancer.
Reproductive or Gonadotoxicity:	May damage fertility or the unborn child.
Specific target organ toxicity (single exposure):	None identified.

CARCINOGENS :

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

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity	May be considered hazardous if released into the 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 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:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (NICKEL SULFATE)
Hazard Class:	9
UN / NA Number:	3082
Packing Group:	III
Labels Required:	CLASS 9 LABEL
Marine Pollutant:	NONE

I.A.T.A / I.C.A.O. (AIR)**International Air Transportation Authority / International Civil Air Organization**

Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (NICKEL SULFATE)
Hazard Class:	
UN / NA Number:	3082
Packing Group:	III
Labels Required:	CLASS 9 LABEL
Marine Pollutant:	NONE

I.M.D.G. (SEA)**International Maritime Organization**

Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (NICKEL SULFATE)
Hazard Class:	
UN / NA Number:	3082
Packing Group:	III
Labels Required:	CLASS 9 LABEL
Marine Pollutant:	NICKEL SULFATE

ERG Info:	GUIDE # 171
Reportable Quantity:	RQ (NICKEL SULFATE)
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
Xn; R20/22 -Xi; R43 - N; R51-53

DPD Pictograms**Risk and Safety Phrases:**

R20/22, R38, R42/43, R49, R61, R68, S45, S53, S60, S61

INGREDIENT	CAS NUMBER	CERCLA	SARA 313	SARA 302	REACH SVHC List	ROHS 2
NICKEL SULFATE, EN LIQUID	7786-81-4	X	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: CANADA WHMIS Class D1B - Toxic material causing immediate and serious toxic effects.

CANADA WHMIS Class D2A - 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

5/13/15: Rev. format per GHS.
3/11/14: New release.