

# SAFETY DATA SHEET

## MARQUEE HP-A-21

498210

### SECTION 1: COMPANY AND MIXTURE IDENTIFICATION

**1.1 Product Name:** MARQUEE HP-A-21

**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  
Zi Ecoparc II  
27400 Heudebouville  
France  
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 (Inhale), H332  
Muta. 2, H341  
Carc. 1B, H350  
Repr. 1B, H360  
STOT RE 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	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 H360 STOT RE 1 H372 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 several minutes.
Skin Contact:	Wash with plenty of soap and water for several minutes. Remove/Take off all contaminated clothing.
Inhalation:	Move exposed individual to fresh air and maintain in a position comfortable to breathing.
Ingestion:	Rinse mouth and call emergency medical services. Do not induce vomiting. Never give anything by mouth to an unconscious person.

**4.2 Important symptoms and effect acute and delayed**

Symptoms/Injuries:	Causes skin irritation or an allergic skin reaction. Symptoms might include redness, and irritation.
Inhalation:	Harmful if inhaled, may cause irritation of the respiratory system.
Skin contact:	Causes skin irritation or an allergic skin reaction. Symptoms include redness, and irritation.
Eye contact:	May cause eye irritation, symptoms might include redness and irritation.
Ingestion:	May cause 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 experiencing respiratory symptoms or if swallowed.

**SECTION 5: FIRE FIGHTING MEASURES****5.1 Extinguishing media**

Dry chemical powder. Water spray. Carbon dioxide (CO<sub>2</sub>)

**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: 1-0-0-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:	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):	If frozen, warm product to about 25 C (77 F) and mix until solids are dissolved. 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****NICKEL SULFATE SOLUTION (7786-81-4)**

USA

ACGIH - TEL

0.1 mg/m3 (Ni)

**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>	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.
<b>Hand Protection:</b>	Wear chemical resistant gloves when handling any chemical product.
<b>Eye Protection:</b>	Wear chemical safety glasses and/or face shield when handling chemical products.
<b>Skin Protection:</b>	Wear protective clothing as appropriate.
<b>Other:</b>	Launder contaminated clothing before reuse.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

<b>Appearance:</b>	Clear Green Solution	<b>Flammability (solid,gas):</b>	No data available
<b>Odour:</b>	Slight 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>	3.3 - 3.8	<b>Vapour Density:</b>	No data available
<b>Melting Point:</b>	No data available	<b>Relative Density:</b>	1.235 - 1.260
<b>Solidification Point:</b>	Crystals may form below 10 C (50 F)	<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 may not be stable under heat, moisture, pressure, or exposure to incompatible 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>	Nickel compounds and oxides of sulfur.

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1 Toxicological effects**

<b>Acute toxicity:</b>	Harmful if swallowed.
<b>Skin corrosion/irritation:</b>	Causes skin irritation and may cause an allergic skin reaction.
<b>Respiratory or skin sensitization:</b>	Harmful if inhaled. May cause an allergic skin reaction.
<b>Embryotoxic, Teratogenic, or Mutagenic:</b>	Contains nickel compounds which are suspected of causing genetic defects.
<b>Carcinogenicity:</b>	Contains nickel compounds which may cause cancer. Risk of cancer depends on level of exposure.
<b>Reproductive or Gonadotoxicity:</b>	Contains nickel compounds which may damage fertility or the unborn child.
<b>Specific target organ toxicity (single exposure):</b>	Causes damage to organs through prolonged or repeated exposure.

**CARCINOGENS :**

<b>IARC :</b>	YES	<b>OSHA :</b>	YES
<b>NTP :</b>	YES	<b>EU :</b>	YES

**SECTION 12: ECOLOGICAL INFORMATION**

<b>12.1 Toxicity</b>	Material is toxic to aquatic life with long lasting effects.
<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>	Spillage of material can lead to penetration into soil and groundwaters.
<b>12.5 PBT and vPvB Assessment</b>	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.
<b>12.6 Other Adverse Effects</b>	No other adverse effects 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:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (NICKEL SULFATE)
Hazard Class:	9
UN / NA Number:	3082
Packing Group:	III
Labels Required:	CLASS 9 MISCELLANEOUS
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:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (NICKEL SULFATE)
Hazard Class:	9
UN / NA Number:	3082
Packing Group:	III
Labels Required:	CLASS 9 MISCELLANEOUS
Marine Pollutant:	NONE

#### I.M.D.G. (Sea)

<b>International Maritime Organization</b>	
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 MISCELLANEOUS
Marine Pollutant:	MARINE POLLUTANT

ERG Info:	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 - Carc. Cat. 1; R49 - Muta. Cat 3; R68 - Repr. Cat 2; R61 - N; R51-53

##### DPD Pictograms



**Risk and Safety Phrases:**

R20/22, R43, R49, R61, R51-53, S45, S53, S60, S61

INGREDIENT	CAS NUMBER	CERCLA	SARA 313	SARA 302	REACH SVHC List	ROHS 2
NICKEL SULFATE	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: Components listed as CANADA WHMIS Class D1B - Toxic material causing immediate and serious toxic effects, and 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: 7/29/16: New GHS format.**  
**3/4/14: New release**