



SAFETY DATA SHEET

Metal Bright

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Metal Bright**

Manufacturer: North Woods
4415 S. Taylor Drive
Sheboygan, WI 53081
www.northwoodstm.com

Telephone: 800-242-7694

Emergency
telephone: Infotrac (800) 535-5053

2. HAZARD IDENTIFICATION

IF CONTACT WITH SKIN (or hair): Remove all contaminated clothing immediately and rinse skin with water/shower for at least 20 minutes.

GHS Ratings:

Dermal Toxicity	Acute Tox. 2	Dermal>50+<=200mg/kg
Inhalation Toxicity	Acute Tox. 4	Gases>2500+<=5000ppm, Vapors>10+<=20mg/l, Dusts & mists>1+<=5mg/l
Skin corrosive	1A	Destruction of dermal tissue: Exposure < 3 min. Observation < 1 hour, visible necrosis in at least one animal
Eye corrosive	1	Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity >= 3, Iritis > 1.5
Respiratory sensitizer	1	Respiratory sensitizer
Carcinogen	1B	Presumed Human Carcinogen, Based on demonstrated animal carcinogenicity
Reproductive toxin	2	Human or animal evidence possibly with other information

GHS Hazards

H301	Toxic if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H332	Harmful if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H350	May cause cancer
H361	Suspected of damaging fertility or the unborn child

GHS Precautions

P201	Obtain special instructions before use
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P202	Do not handle until all safety precautions have been read and understood
P260	Do not breathe dust/fume/gas/mist/vapors/spray
P262	Do not get in eyes, on skin, or on clothing
P264	Wash ... thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P271	Use only outdoors or in a well-ventilated area
P280	Wear protective gloves/protective clothing/eye protection/face protection
P281	Use personal protective equipment as required
P285	In case of inadequate ventilation wear respiratory protection
P310	Immediately call a POISON CENTER or doctor/physician
P321	Specific treatment (see ... on this label)
P361	Remove/Take off immediately all contaminated clothing
P363	Wash contaminated clothing before reuse
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P302+P352	IF ON SKIN: Wash with soap and water
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P308+P313	IF exposed or concerned: Get medical advice/attention
P342+P311	Call a POISON CENTER or doctor/physician
P405	Store locked up

Signal Word: Danger



3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS number	Weight Concentration %
Water	7732-18-5	70.00% - 80.00%
Phosphoric acid	7664-38-2	10.00% - 20.00%
Sulfuric Acid	7664-93-9	1.00% - 5.00%
2-Butoxyethanol	111-76-2	1.00% - 5.00%
Poly(oxy-1,2-ethanediyl), alpha-(nonylphenyl)-omega- hydroxy	9016-45-9	1.00% - 5.00%

4. FIRST-AID MEASURES

INHALATION: Move exposed party to fresh air and keep at rest. If breathing is difficult, give oxygen. If not

breathing, give artificial respiration. Get medical attention immediately.

EYE CONTACT: In case of eye contact, rinse with plenty of water for at least 20 minutes and seek medical attention immediately.

SKIN CONTACT: Immediately flush with plenty of water for at least 20 minutes while removing contaminated clothing. Get medical attention immediately.

INGESTION: Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention immediately.

5. FIRE-FIGHTING MEASURES

Flash Point: None

LEL:

UEL:

FLAMMABLE LIMITS: Product is not flammable. However, contact with metal may release flammable hydrogen gas

EXTINGUISHING MEDIA: Use an extinguishing agent suitable for the fire and other materials present that are exposed to fire.

FIRE AND EXPLOSION HAZARD: Use water spray to cool unopened containers if necessary to prevent BLEVE (Boiling Liquid Expanding Vapor Explosion).

HAZARDOUS COMBUSTION PRODUCTS: Under fire conditions toxic fumes should be anticipated.

FIRE FIGHTING: See also Stability and Reactivity section.

FIRE EQUIPMENT: Wear self-contained, approved breathing apparatus and full protective clothing (including eye protection and boots).

6. ACCIDENTAL RELEASE MEASURES

SPILL/LEAK: Follow your companies established procedures for reporting and/or responding to chemical incidents. No action shall be taken involving any personal risk without suitable training and use of appropriate personal protective equipment.

See section 8 for recommendations on the use of personal protective equipment.

SMALL SPILL: Stop leak if it can be done without risk. Be sure to utilize appropriate personal protective equipment. Clean up spilled material with noncombustible absorbent material, then place in a suitable container for disposal in accordance with Federal, state, and local requirements. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with Federal, state, and local regulations.

LARGE SPILL: No action shall be taken involving any personal risk or without suitable training, and use of appropriate personal protective equipment. Stop leak if it can be done without risk. Prevent spillage from entering drains and/or waterways. Any release to the environment may be subject to Federal, state, and local reporting requirements.

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS: Eating, drinking and smoking should be prohibited in areas where this material is

handled, stored, or processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. Use with adequate ventilation. Avoid formation of aerosol mixtures involving the product.

See section 8 for recommendations on the use of appropriate personal protective equipment.

STORAGE: Keep container closed when not in use. Store in cool, dry well ventilated area. Keep away from incompatible materials (see section 10 for incompatibilities). Protect from excessive heat and/or freezing.

REGULATORY: Do not store in unlabeled containers. Adhere to precautionary warnings on the label.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Chemical Name / CAS No.</u>	<u>OSHA Exp Limits</u>	<u>ACGIH Exp Limits</u>	<u>Other Exp Limits</u>
Water 7732-18-5	Not Established	Not Established	Not Established
Phosphoric acid 7664-38-2	1 mg/m3 TWA	3 mg/m3 STEL 1 mg/m3 TWA	NIOSH: 1 mg/m3 TWA 3 mg/m3 STEL
Sulfuric Acid 7664-93-9	1 mg/m3 TWA	0.2 mg/m3 TWA (thoracic fraction)	NIOSH: 1 mg/m3 TWA
2-Butoxyethanol 111-76-2	Not Established	Not Established	Not Established
Poly(oxy-1,2-ethanediyl), alpha-(nonylphenyl)-omega- hydroxy 9016-45-9	Not Established	Not Established	Not Established

ENGINEERING CONTROLS: Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

VENTILATION: Use only with adequate ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions present. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

ADMINISTRATIVE CONTROLS: No action shall be taken involving any personal risk or without suitable training and issuance of appropriate personal protective equipment.

PROTECTIVE GEAR:

Eye protection: Wear safety goggles if eye contact with material is possible (face shield recommended if splashing is possible).

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is appropriate. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their

protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body Protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other Skin Protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory Protection: If needed, use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

CONTAMINATED GEAR: Routinely wash work clothing and protective equipment to remove contaminants.

9. PHYSICAL AND CHEMICAL PROPERTIES

NOTE: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot, or as a specification for the product.

Specific Gravity (SG):	1.11 (approximate)
Appearance:	Blue Liquid
Odor:	Acrid Odor
pH:	< 1 (1% solution)

10. STABILITY AND REACTIVITY

Product is normally STABLE under normal conditions of storage and handling.

INCOMPATIBLE MATERIALS: Strong bases, most metals

HAZARDOUS DECOMPOSITION: No Data Available

HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur

11. TOXICOLOGICAL INFORMATION

Mixture Toxicity

Dermal Toxicity LD50: 92mg/kg

Inhalation Toxicity LC50: 13mg/L

Component Toxicity

7664-38-2 Phosphoric acid

Oral LD50: 1,530 mg/kg (Rat) Dermal LD50: 2,740 mg/kg (Rabbit)

7664-93-9 Sulfuric Acid

Oral LD50: 2,140 mg/kg (Rat) Inhalation LC50: 510 mg/m³ (Rat)

9016-45-9 Poly(oxy-1,2-ethanediyl), alpha-(nonylphenyl)-omega-hydroxy

Oral LD50: 2,590 mg/kg (Rat) Dermal LD50: 1,780 µL/kg (Rabbit)

This material has been defined as a hazardous chemical under the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200).

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

The following chemicals are reportable under Pennsylvania Right to Know:

- 7664-38-2 Phosphoric acid
- 7664-93-9 Sulfuric Acid
- 111-76-2 2-Butoxyethanol

State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): WARNING!

This product contains the following chemicals which are listed by the State of California as carcinogenic or a reproductive toxin:

- None

SARA313

- None

Country

U.S.A.

Regulation

TSCA

All Components Listed

Yes

United States inventory (TSCA 8b): All components are listed or exempted.

111-76-2 2-Butoxyethanol 1.0 - 5%

SARA 313 Components: The following listed components (if any) are subject to the Supplier Notification Requirement found in 40 CFR 372.45 (c 4); a part of Title III of the Superfund Amendments and Reauthorization Act of 1986.

7664-93-9 Sulfuric Acid 1.0 - 5%

16. OTHER INFORMATION

Hazardous Material Information System (HMIS)

National Fire Protection Association (NFPA)

HMIS & NFPA Hazard Rating

Flammability

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	1
PERSONAL PROTECTION	D

Legend

* = Chronic Health Hazard

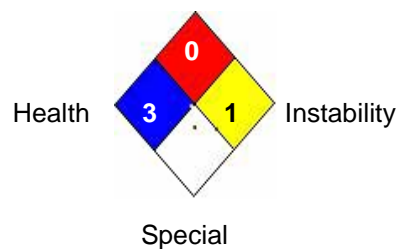
0 = INSIGNIFICANT

1 = SLIGHT

2 = MODERATE

3 = HIGH

4 = SEVERE



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