

SAFETY DATA SHEET

Prepared according to U.S. OSHA

1. PRODUCT IDENTIFICATION

<u>TRADE NAME (AS LABELED):</u>	<i>Antimicrobial Coated Steel</i>
<u>PRODUCT USE:</u>	Various uses
<u>UN NUMBER:</u>	None
<u>DANGEROUS GOODS CLASS:</u>	Non-Regulated Material
<u>MANUFACTURER'S NAME:</u>	Wheeling Service & Supply, Inc.
<u>ADDRESS:</u>	P.O. Box 189 Woodstock, IL 60098
<u>BUSINESS PHONE:</u>	1-815-338-6410
<u>EMERGENCY PHONE:</u>	1-815-338-6410
<u>DATE OF CURRENT REVISION:</u>	April 21, 2016
<u>DATE OF LAST REVISION:</u>	New

2. HAZARD IDENTIFICATION

GHS LABELING AND CLASSIFICATION:

THIS PRODUCT, AS SOLD BY WHEELING SERVICE & SUPPLY, INC, IS NOT HAZARDOUS PER OSHA GHS 29 CFR, 1910, 1915, 1926. However, processes such as brazing, sawing, welding, grinding, machining and abrasive blasting may result in the formation of fumes, dust (combustible or otherwise), and or particulate that may present hazards.

Component(s) Determining Hazards:

Manganese, Carbon, Phosphorus, Sulfur, Aluminum, Copper, Zinc, Epoxy resin

GHS Classifications:

Eye Irritation Category 2B
Aquatic Acute Category 3
Aquatic Chronic Category 3

Signal Word: Warning!

Hazard Symbol:

None Applicable

Hazard Statement:

H320: Causes eye irritation
H402: Harmful to aquatic life
H412: Harmful to aquatic life with long lasting effects
May form combustible dust concentrations in air (OSHA)

Prevention Statement:

P264: Wash thoroughly after handling.
P273: Avoid release to the environment.

Response Statement:

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313: If eye irritation persists: Get medical advice/attention.

Storage Statement:

None

Disposal Statement:

P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

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HEALTH HAZARDS OR RISKS FROM EXPOSURE: Steel products in the solid state do not present a health hazard. Fumes, dust (combustible or otherwise), and or particulate may present the following hazards:

Primary Routes(s) Of Entry: Skin Contact, Eye Contact, Inhalation, Ingestion

EYE HAZARDS: Contact may cause mechanical eye irritation.

SKIN HAZARDS: May cause an allergic skin reaction. Dust from physical alteration of this product causes skin irritation. Causes severe skin burns. Contact with fumes or metal powder will irritate the skin. Mechanical damage via flying particles and chipped slag is possible.

INGESTION HAZARDS: Can cause irritation to digestive tract if large quantities are ingested.

INHALATION HAZARDS: Inhalation of dusts and fumes can cause metal fume fever. Symptoms can include a metallic or sweet taste in the mouth, sweating, shivering, headache, throat irritation, fever, chills, thirstiness, muscle aches, nausea, vomiting, weakness, fatigue, and shortness of breath.

3. COMPOSITION and INFORMATION ON INGREDIENTS

COMPONENT:	CAS #	EINECS #	AMOUNT	GHS HAZARD CLASSIFICATION
IRON	7439-89-6	231-096-4	Balance	NOT CLASSIFIED
MANGANESE	7439-96-5	231-105-1	2-3%	COMBUSTIBLE DUST, SKIN IRRITANT CAT 2
CARBON	7440-44-0	231-153-3	1-2%	COMBUSTIBLE DUST
PHOSPHORUS	7723-14-0	231-768-7	1-2%	FLAMMABLE SOLID CAT 1, AQUATIC CHRONIC CAT 3
SULFUR	7704-34-9	231-722-6	1-2%	COMBUSTIBLE DUST, SKIN IRRITANT CAT 2
ALUMINUM	7429-90-5	231-072-3	1-2%	COMBUSTIBLE DUST, FLAMMABLE SOLID CAT 2, WATER REACTANT CAT 2
COPPER	7440-50-8	231-159-6	1-2%	COMBUSTIBLE DUST, AQUATIC ACUTE CAT 1, AQUATIC CHRONIC CAT 3
ZINC	1314-13-2	215-222-5	1-2%	COMBUSTIBLE DUST, AQUATIC CHRONIC CAT 1, AQUATIC ACUTE CAT 1
EPOXY RESIN	25036-25-3	Not listed	<1%	SKIN SENSITIZER CAT 1
POLYESTER RESIN	Trade Secret	Trade Secret	<1%	NOT CLASSIFIED

Each of the other components is present in less than 1 percent concentration (0.1% concentration for potential carcinogens, reproductive toxins, respiratory tract sensitizers, and mutagens)

* Proprietary ingredients are Company Trade Secret - Business Confidential. Wheeling Service & Supply, Inc. is withholding the specific chemical identity under provision of the OSHA Hazard Communication Rule Trade Secrets (1910.1200(i)(1)). The specific chemical identity will be made available to health professionals in accordance with 29 CFR 1910.1200 (i)(1) (2) (3) (4).

NOTE: This product has been classified in accordance with the hazard criteria of 29CFR1910.1200 and the CPR and this SDS contains all the information required by the CPR, EU Regulation 1272/2008 and the Japanese Industrial Standard JIS Z 7250: 2000.

4. FIRST-AID MEASURES

EYE CONTACT: If chemical contacts the eyes, open victim's eyes while under gentle running water. Use sufficient force to open eyelids. Have victim "roll" eyes. Minimum flushing is for 15 minutes. Remove contact lenses, if worn. Seek medical attention if irritation develops and persists.

SKIN CONTACT: Wash contacted area with soap and water. Remove exposed or contaminated clothing, taking care not to contaminate eyes. Seek medical attention if irritation develops and persists.

INHALATION: If chemical is inhaled, or breathing is difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention.

INGESTION: If chemical is swallowed, call physician or poison control center for most current information. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Victims of chemical exposure must be taken for medical attention. Rescuers should be taken for medical attention, if necessary. Take a copy of the label and SDS with the victim to the health professional.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Persons with pre-existing skin disorders or impaired respiratory function may be more susceptible to the effects of the substance.

RECOMMENDATIONS TO PHYSICIANS: Treat symptoms and eliminate overexposure.

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5. FIRE-FIGHTING MEASURES

FLASH POINT: Not Applicable

AUTOIGNITION TEMPERATURE: Not Applicable

FLAMMABLE LIMITS (in air by volume, %): Lower NA% Upper NA%

FIRE EXTINGUISHING MATERIALS: Media suitable for surrounding fire. Carbon dioxide, foam, dry chemical, halon, water spray, sand, limestone powder.

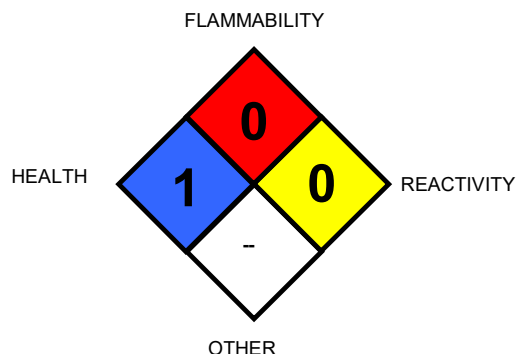
UNUSUAL FIRE AND EXPLOSION HAZARDS: Steel products in the solid state do not present a fire or explosion hazard. Dust formations may be combustible.

Explosion Sensitivity to Mechanical Impact: Not Sensitive

Explosion Sensitivity to Static Discharge: Not Sensitive

SPECIAL FIRE-FIGHTING PROCEDURES: Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

NFPA RATING



Hazard Scale: 0 = Minimal 1 = Slight
2 = Moderate
3 = Serious 4 = Severe

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Proper protective equipment should be used.

SPILLS: Not applicable to bare or coated steel in solid state. Product can be recycled for further use. Dispose in a permitted waste landfill, or by any other method that is in compliance with local, state, or federal laws.

7. HANDLING and STORAGE

WORK PRACTICES AND HYGIENE PRACTICES: Wash thoroughly after handling this product. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Avoid creating or spreading of dust. Do not eat, drink or smoke when using this product. Ensure there is adequate ventilation. Wear recommended personal protective equipment.

STORAGE AND HANDLING PRACTICES: Store containers in a cool, dry location. Store containers away from incompatible chemicals (see Section 10, Stability and Reactivity). Keep containers closed when not in use.

8. EXPOSURE CONTROLS - PERSONAL PROTECTION

EXPOSURE LIMITS/GUIDELINES:

COMPONENT	CAS#	ACGIH TWA	OSHA TWA
IRON	7439-89-6	Not established	Not established
MANGANESE	7439-96-5	0.02 mg/m ³ (respirable fraction)	5 mg/m ³ (fume)
CARBON	7440-44-0	Not established	Not established
PHOSPHORUS	7723-14-0	Not established	0.1 mg/m ³ (respirable fraction)
SULFUR	7704-34-9	Not established	Not established
ALUMINUM	7429-90-5	1 mg/m ³ (respirable fraction)	15 mg/m ³ (total dust) 5 mg/m ³ (respirable fraction)
COPPER	7440-50-8	0.2 mg/m ³ (fume)	0.1 mg/m ³ (fume) 1 mg/m ³ (dust and mist)
ZINC	1314-13-2	10 mg/m ³ (fume)	5 mg/m ³ (fume)
EPOXY RESIN	25036-25-3	Not established	Not established
POLYESTER RESIN	Trade Secret	Not established	Not established

VENTILATION AND ENGINEERING CONTROLS: Use with adequate ventilation to ensure exposure levels are maintained below the established limits.

Currently, International exposure limits are not established for all the components of this product. Please check with competent authority in each country for the most recent limits in place.

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada, or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.

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RESPIRATORY PROTECTION: Not normally required with this product. If exposure limits are exceeded, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.

EYE PROTECTION: Splash goggles or safety glasses with side shields recommended to prevent contact. If necessary, refer to U.S. OSHA 29 CFR 1910.133, Canadian Standards, and the European Standard EN166, Australian Standards, or relevant Japanese Standards.

HAND PROTECTION: Use chemical resistant gloves as appropriate to prevent skin contact. If necessary, refer to U.S. OSHA 29 CFR 1910.138, the European Standard DIN EN 374, the appropriate Standards of Canada, Australian Standards, or relevant Japanese Standards.

BODY PROTECTION: Use body protection appropriate for task. Coveralls, rubber aprons, or chemical protective clothing made from natural rubber are generally acceptable, depending upon the task. If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards. If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or where employee's feet may be exposed to electrical hazards, use foot protection, as described in U.S. OSHA 29 CFR 1910.136.

9. PHYSICAL and CHEMICAL PROPERTIES

APPEARANCE, ODOR and COLOR: This product is a silver gray metallic solid with no odor

ODOR THRESHOLD: Not Available

VISCOSITY: Not Available

FLAMMABILITY (SOLID, GAS): Not Available

VAPOR DENSITY: Not Available

UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS: Not Available

PARTITION COEFFICIENT: Not Available

AUTO-IGNITION TEMPERATURE: Not Available

DECOMPOSITION TEMPERATURE: Not Available

FLASH POINT: Not Available

RELATIVE DENSITY @ 20°C: Not Available

SOLUBILITY IN WATER: Not Available

VAPOR PRESSURE: Not Available

pH: Not Available

INITIAL BOILING POINT & BOILING RANGE: Not Available

MELTING/FREEZING POINT: Not Available

% VOLATILE: Not Available

10. STABILITY and REACTIVITY

STABILITY: Stable under ordinary conditions of use and storage

DECOMPOSITION PRODUCTS: When heated to decomposition this product produces oxides of carbon and acrylic monomers.

MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE: Will react to strong acid and liberate hydrogen.

HAZARDOUS DEPOLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Incompatible materials. When temperatures are elevated above the melting point (2600°F), fumes containing oxides, alloying elements, and hydrocarbons may be liberated.

11. TOXICOLOGICAL INFORMATION

TOXICITY DATA:

No LD50 Data Available

SUSPECTED CANCER AGENT: The components of this product are not listed by agencies tracking the carcinogenic potential of chemical compounds as follows:

Carcinogeny

NTP Regulated No

IARC Regulated No

OSHA Regulated No

IRRITANCY OF PRODUCT: Contact with this product can be irritating to eyes, respiratory system and skin

SENSITIZATION TO THE PRODUCT: This product is not known to cause human skin or respiratory sensitization.

REPRODUCTIVE TOXICITY INFORMATION: Listed below is information concerning the effects of this product and its components on the human reproductive system.

Mutagenicity: The components of this product are not reported to produce mutagenic effects in humans.

Embryotoxicity: The components of this product are not reported to produce embryotoxic effects in humans.

Teratogenicity: The components of this product are not reported to produce teratogenic effects in humans.

Reproductive Toxicity: The components of this product are not reported to produce reproductive effects in humans.

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12. ECOLOGICAL INFORMATION

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

TOXICITY:

Copper	7440-50-8	LC50 – Fish	0.15 mg/l – 96h
		EC50 – Water flea	0.04-0.05 mg/l -48h
Zinc	1314-13-2	LC50 – Fish	1.1 mg/l – 96h
		EC50 – Water flea	0.098 mg/l -48h

MOBILITY IN SOIL: No Data

PERSISTENCE/DEGRADABILITY: No specific data is available for this product.

ENVIRONMENTAL STABILITY: No specific data is available for this product.

EFFECT OF MATERIAL ON PLANTS or ANIMALS: No specific data is available for this product.

BIOACCUMULATION/ACCUMULATION: These products have not been tested for bio-accumulation potential.

WATER ENDANGERMENT CLASS: Not Established

13. DISPOSAL CONSIDERATIONS

PREPARING WASTES FOR DISPOSAL: Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations, those of Canada, Australia, EU Member States and Japan.

EU Waste Code: To be determined based on usage and contamination.

14. TRANSPORTATION INFORMATION

US DOT, IATA, IMO, ADR:

U.S. DEPARTMENT OF TRANSPORTATION (DOT) SHIPPING REGULATIONS: This product is classified (per 49 CFR 172.101) by the U.S. Department of Transportation, as follows.

PROPER SHIPPING NAME: Non-Regulated Material

HAZARD CLASS NUMBER and DESCRIPTION: None

UN IDENTIFICATION NUMBER: None

PACKING GROUP: None

DOT LABEL(S) REQUIRED: None

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER: None

RQ QUANTITY: None

MARINE POLLUTANT: None of the components of this product are designated by the Department of Transportation to be Marine Pollutants (49 CFR 172.101, Appendix B).

INTERNATIONAL AIR TRANSPORT ASSOCIATION SHIPPING INFORMATION (IATA): This product is not considered as dangerous goods.

INTERNATIONAL MARITIME ORGANIZATION SHIPPING INFORMATION (IMO): This product is not considered as dangerous goods.

EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD (ADR): This product is not considered by the United Nations Economic Commission for Europe to be dangerous goods

15. REGULATORY INFORMATION

UNITED STATES REGULATIONS:

SARA REPORTING REQUIREMENTS Some components of this product are subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act.

TSCA All components in this product mixture are listed on the US Toxic Substances Control Act (TSCA) inventory of chemicals.

SARA 311/312: Acute Health: Yes; Chronic Health: No; Fire: No; Reactivity: No

U.S. CERCLA REPORTABLE QUANTITY (RQ): None

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): This product does not contain a component listed as a California Proposition 65 chemical.

CANADIAN REGULATIONS:

CANADIAN DSL/NDL INVENTORY STATUS: All of the components of this product are on the DSL Inventory.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS: No component of this product is on the CEPA First Priorities Substance Lists.

CANADIAN WHMIS CLASSIFICATION and SYMBOLS: Complies with WHMIS 2015

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16. OTHER INFORMATION

PREPARED BY: Chris Eigbrett

MSDS to GHS Compliance

www.msdstoghs.com

All chemicals may pose unknown hazards and should be used with cautions. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Wheeling Service & Supply, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers and protection of the environment

End of SDS Sheet