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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards

SDS Revision: 1.0

SDS Revision Date: 6/24/2014

1. PRODUCT & COMPANY IDENTIFICATION 1.1 Product Name: **BRASS BLACK METAL FINISH** Acid Mixture 1.2 Chemical Name: 1.3 Synonyms 15232, 15225, 74000, BB2-QT, BB2, M24 1.4 Trade Names: Brass Black Metal Finish 1.5 Product Use: Blackening Solution for Brass & Copper 1.6 Distributor's Name: Birchwood Casev. 7887 Fuller Road, Suite #100, Eden Prairie, MN 55344 USA 1.7 Distributor's Address: 1.8 Emergency Phone: ChemTrec +1 (800) 424-9300 / +1 (703) 527-3887 or Poison Control Center +1 (866) 291-7152 1.9 Business Phone / Fax: +1 (952) 388-6717 2. HAZARDS IDENTIFICATION 2.1 Hazard Identification: This product is classified as a hazardous substance and as dangerous goods according to the classification criteria of [NOHSC: 1088 (2004)] and ADG Code (Australia). DANGER! TOXIC IF SWALLOWED. MAY CAUSE SEVERE SKIN BURNS OR EYE DAMAGE. MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE. Hazard Statements (H): H301 - Toxic if swallowed. H314 - Causes severe skin burns and eye damage. H373 - May cause damage to organs through prolonged or repeated exposure. H410 -Very toxic to aquatic life with long lasting effects. Precautionary Statements (P): P220 - Keep/Store away from clothing/ combustible materials. P273 - Avoid release to the environment. P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P501 - Dispose of contents/ container to an approved waste disposal plant. 2.2 Effects of Exposure: Severe or permanent eye damage. Eyes: Skin: Burns upon direct contact. Severe burns of mouth, throat, stomach. Ingestion: Severe irritation or burns in respiratory tract and mucous membranes. Possible lung damage. Inhalation: 2.3 Symptoms of Overexposure: Redness, burning, irritation, and swelling around eyes Eyes: Redness, burning, itching, rash, blistering of skin. Skin: Ingestion: Nausea, vomiting, severe abdominal pain. Coughing, wheezing, swelling of throat, irritation in mucous membranes, difficulty breathing. 2.4 Acute Health Effects: May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. May be harmful if swallowed. Causes burns. May be harmful if absorbed through skin. Chronic Health Effects: 2.5 May damage the nervous system, kidney and/or liver. 2.6 Target Organs: Eyes, skin, nervous system, kidneys, liver, respiratory system, spleen, blood forming organs, bones. 3. COMPOSITION & INGREDIENT INFORMATION EXPOSURE LIMITS IN AIR (mg/m³) ACGIH NOHSC ppm ppm ppm ES-ES-ES-CHEMICAL NAME(S) CAS No. RTECS No. EINECS No. STEL TWA STEL TLV STEL IDLH OTHER 7732-18-5 ZC0110000 231-791-2 60-100 NA NF NF NA NA NA NA NF WATER 7664-38-2 TB6300000 231-633-2 7-13 (1) (3) NF NF NF NA NA 1000 PHOSPHORIC ACID Skin Corr.; H314 7783-00-8 VS7175000 231-974-7 1-5 (0.2) NA (0.2) NF NF (0.2) NA NA SELENIOUS ACID Acute Tox. 3; Aquatic Acute 1; Aquatic Chronic 1; STOT RE 2; H301, H331, H400, H410, H373 7758-99-8 NA NA 1-5 (1) NA NF NF NF (1) NA 1000 **CUPRIC SULFATE** Acute Toxicity 4; H302 NA 13106-76-8 236-031-3 1-5 (10) NA NF NF NF NA NA NA AMMONIUM MOLYBDATE Acute Toxicity 4; Skin Irritation 2; Eye Irritation 2; Specific Target Organ Toxicity-Single Exposure 3; H302, H315, H319, H335 1-3 (0.1) NA NF NF NF (1) NA NA 7733-02-0 QR9600000 232-104-9 ZINC SULFATE Acute Toxicity 4; Eye Damage 1; Acute Aquatic Toxicity 1; Chronic Aquatic Toxicity 1; H302, H318, H400, H410 NA = Not Available: ND = Not Determined: NE = Not Established: NF = Not Found: C = Ceiling Limit: See Section 16 for Additional Definitions of Terms Used NOTE: All WHMIS required information is included. It is located in appropriate sections based on the ANSI Z400.1-2010 format.



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4. FIRST AID MEASURES DO NOT INDUCE VOMITING. Contact Poison Control Center +1 (866) 291-7152 or the nearest Poison 4 1 First Aid: Ingestion: Control Center or local emergency telephone number for assistance and instructions. Seek immediate medical attention. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration. If product gets in the eyes, flush eyes thoroughly with copious amounts of water for at least 15 minutes, Eyes: holding evelid(s) open to ensure complete flushing. If the eyes or face become swollen during or following use, consult a physician or emergency room immediately. Skin: Remove contaminated clothing and wash affected areas with soap and water. If discomfort persists and/or the skin reaction worsens, contact a physician immediately. Do not wear contaminated clothing until after it has been properly cleaned. Remove victim to fresh air at once. Under extreme conditions, if breathing stops, perform artificial Inhalation: respiration. Seek immediate medical attention. 4.2 Medical Conditions Pre-existing dermatitis, other skin conditions, and disorders of the **HEALTH** 3 Aggravated by Exposure: target organs (eyes, skin, respiratory system, liver, blood-forming **FLAMMABILITY** 0 organs) or impaired kidney function may be more susceptible to the **PHYSICAL HAZARDS** 0 effects of this substance. PROTECTIVE EQUIPMENT Н **EYES** LUNGS SKIN 5. FIREFIGHTING MEASURES 5.1 Fire & Explosion Hazards: Non-flammable. May react with metals to release hydrogen gas, which can form explosive mixtures with air. May intensity fire; oxidizer. 5.2 Extinguishing Methods: Use fire-extinguishing media appropriate for surrounding materials. 5.3 Firefighting Procedures: As with any fire, firefighters should wear appropriate protective equipment including a MSHA/NIOSH approved or equivalent self-contained breathing apparatus (SCBA) and protective clothing. Fight fires as for surrounding materials. Hazardous decomposition products may be released. Thermal degradation may produce oxides of carbon, phosphorous, selenium and/or nitrogen, hydrocarbons and/or derivatives. Fire should be fought from a safe distance. Keep containers cool until well after the fire is out. Use water spray to cool fire-exposed surfaces and to protect personal. Fight fire upwind. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway. 6. ACCIDENTAL RELEASE MEASURES 6.1 Spills Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Equipment (PPE). Use safety glasses or safety goggles and face shield; use gloves and other protective clothing (e.g., apron, boots, etc.) to prevent skin contact. Small Spills: Wear appropriate protective equipment including gloves and protective eyewear. Use a non-combustible, inert material such as vermiculite or sand to soak up the product and place into a container for later disposal. Large Spills: Keep incompatible materials (e.g., organics such as oil) away from spill. Stay upwind and away from spill or release. Isolate immediate hazard area and keep unauthorized personnel out of area. Stop spill or release if it can be done with minimal risk. Wear appropriate protective equipment including respiratory protection as conditions warrant. Recover as much free liquid as possible and collect in acid-resistant container. Use absorbent to pick up residue. Avoid discharging liquid directly into a sewer or surface waters 7. HANDLING & STORAGE INFORMATION Avoid breathing mists or spray. Avoid eye and skin contact. Wear protective equipment when handling product. Keep out Work & Hygiene Practices: of the reach of children. Do not eat, drink or smoke when handling this product. Wash thoroughly after handling. Do not expose to heat and flame. Use only in ventilated areas. Keep out of the reach of children. Immediately clean-up and decontaminate any spills or residues. 7.2 Storage & Handling: Use and store in a cool, dry, well-ventilated location (e.g., local exhaust ventilation, fans) away from heat and direct sunlight. Store in acid-resistant containers. Keep containers covered when not in use. Avoid temperatures above 40°C (120°F). Keep away from incompatible substances (see Section 10). Protect containers from physical damage. 7.3 Special Precautions: Empty containers may retain hazardous product residues



Embryotoxicity:

Teratogenicity:

11.7

11.8

11.9

Reproductive Toxicity:

Biological Exposure Indices:

Physician Recommendations:

See Section 2.3

Treat symptomatically.

NE

Irritancy of Product:

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This product is not reported to produce embryotoxic effects in humans.

This product is not reported to cause reproductive effects in humans.

This product contains nickel sulfate, which is reported to cause teratogenic effects in humans.



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Phosphoric Acid is found on the following state criteria lists: FL, MA, MN, and PA.

No other ingredients in this product, present in a concentration of 1.0% or greater, are listed on any of the following state criteria lists: California Proposition 65 (CA65), Delaware Air Quality Management List (DE), Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Michigan Critical Substances List (MI), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), New York Hazardous Substances List (NY), Pennsylvania Right-to-Know List (PA), Washington Permissible Exposures List (WA), Wisconsin Hazardous Substances List (WI)



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15.8	Other Requirements: The primary components of this product are listed in Annex I of EU Directive 67/548/EEC. Selenious Acid: Corrosive (C), Toxic (T). Risk Phrases (R): R35 – Causes severe burns. Safety Phrases (S): S1/2-7/9-24/25-26-28-46 - Keep locked up and out of the reach of children. Keep container tightly closed and in a well-ventilated place. Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash with plenty of soap and warm water. If swallowed, seek medical advice immediately and show this container or label. Phosphoric acid: Irritant (Xi). Risk Phrases (R): 36/38 – Irritating to eyes and skin. Safety Phrases (S):1/2-26-45 – Keep locked up and out of reach of children. In case of contact with eyes, rinse immediately with copious amounts of water. In case of accident or if you feel unwell seek medical advice immediately. Cupric sulfate: Harmful (XN); Environmental danger (N). Risk Phrases (R): 22-36/8-50/53 – Harmful if swallowed. Irritating to eyes and skin. Very toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment. Safety Phrases: (S) 22-60-61 – Do not breathe dust. This material and/or its container must be disposed of as a hazardous waste. Avoid release to the environment. Refer to special instructions/Safety data sheets.							
		16. OTHER INFORMATION						
16.1	DANGER! Toxic if swallowed. May cause severe skin burns or eye damage. May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed or harmful if inhaled. Causes severe burns to eyes and skin. In case of contact with eyes, rinse immediately with copious amounts of water. In case of accident or if							
16.2	Terms & Definitions:	you feel unwell seek medical advice immediately. KEEP LOCKED UP AND OUT OF REACH OF CHILDREN. See last page of this Safety Data Sheet.						
16.3	occide page of the outer, Bata choot.							
16.4	Prepared for:	Birchwood Casey 7887 Fuller Road, Suite #100 Eden Prairie, MN 55344 USA Tel: +1 (952) 388-6701 Fax: +1 (952) 388/6702 http://www.birchwoodCasey.com						
16.5	Prepared by:	ShipMate, Inc. P.O. Box 787 Sisters, Oregon 97759-0787 USA Tel: +1 (310) 370-3600 Fax: +1 (310) 370-5700 http://www.shipmate.com						



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DEFINITION OF TERMS

A large number of abbreviations and acronyms appear on a SDS. Some of these that are commonly used include the following:

GENERAL INFORMATION:

EXPOSURE LIMITS IN AIR:					
ACGIH American Conference on Governmental Industrial Hygienists					
TLV	Threshold Limit Value				

FIRST AID MEASURES:

CPR	Cardiopulmonary resuscitation - method in which a person whose heart has
	stopped receives manual chest compressions and breathing to circulate blood
	and provide oxygen to the body

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

OSHA U.S. Occupational Safety and Health Administration

HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

CAS No. | Chemical Abstract Service Number

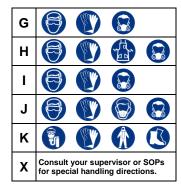
PEL Permissible Exposure Limit IDLH Immediately Dangerous to Life and Health

0	Minimal Hazard			
1	Slight Hazard			
2	Moderate Hazard			
3	Severe Hazard			
4	Extreme Hazard			

HEALTH **FLAMMABILITY** PHYSICAL HAZARDS **PERSONAL PROTECTION**

PERSONAL PROTECTION RATINGS:

Α			
В			
С		THE STATE OF THE S	
D			
Е			
F		HA.	





Splash Goggles







Synthetic Apron

Dust & Vapor Half-Mask Respirator

& Full Suit





Full Face Respirator



OTHER STANDARD ABBREVIATIONS:

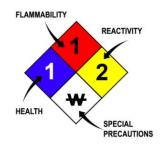
NA	Not Available
NR	No Results
NE	Not Established
ND	Not Determined
ML	Maximum Limit
SCBA	Self-Contained Breathing Apparatus
Flam.	Flammable
Liq.	Liquid
Sol.	Solid
Tox.	Toxicity
Irrit.	Irritation
Sens.	Senitization
Ox.	Oxidizing
Corr.	Corrosion
Repr.	Reproductive (Harm)
Asp.	Aspiration
lnh.	Inhalation
Dam.	Damage
STOT SE	Specific Target Organ Toxicity – Single Exposure
STOT RE	Specific Target Organ Toxicity – Repeated Exposure

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:							
Autoignition	Autoignition Minimum temperature required to initiate combustion in air with no other source						
Temperature of ignition							
LEL	Lower Explosive Limit - lowest percent of vapor in air, by volume, that will						
explode or ignite in the presence of an ignition source							
UEL	Upper Explosive Limit - highest percent of vapor in air, by volume, that will						
	explode or ignite in the presence of an ignition source						

HAZARD RATINGS:

0	Minimal Hazard
1	Slight Hazard
2	Moderate Hazard
3	Severe Hazard
4	Extreme Hazard
ACD	Acidic
ALK	Alkaline
COR	Corrosive
₩	Use No Water
OX	Oxidizer
TREFOIL	Radioactive



TOXICOLOGICAL INFORMATION:

LD ₅₀	Lethal Dose (solids & liquids) which kills 50% of the exposed animals
	S
LC ₅₀	Lethal concentration (gases) which kills 50% of the exposed animal
ppm	Concentration expressed in parts of material per million parts
TD _{lo}	Lowest dose to cause a symptom
TCLo	Lowest concentration to cause a symptom
TD _{io} , LD _{io} , & LD _o or	Lowest dose (or concentration) to cause lethal or toxic effects
TC, TC _o , LC _{lo} , & LC _o	
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
RTECS	Registry of Toxic Effects of Chemical Substances
BCF	Bioconcentration Factor
TL _m	Median threshold limit
log K _{ow} or log K _{oc}	Coefficient of Oil/Water Distribution

REGULATORY INFORMATION:

WHMIS	Canadian Workplace Hazardous Material Information System			
VVIIIVIIO	Canadian Workplace Hazardous Material Information System			
DOT	U.S. Department of Transportation			
TC	Transport Canada			
EPA	U.S. Environmental Protection Agency			
DSL	Canadian Domestic Substance List			
NDSL	Canadian Non-Domestic Substance List			
PSL	Canadian Priority Substances List			
TSCA	U.S. Toxic Substance Control Act			
EU	European Union (European Union Directive 67/548/EEC)			
WGK	Wassergefährdungsklassen (German Water Hazard Class)			

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

0	(4)	(2)		\odot	(1)		R
Class A	Class B	Class C	Class D1	Class D2	Class D3	Class E	Class F
Compressed	Flammable	Oxidizing	Toxic	Irritation	Infectious	Corrosive	Reactive

EC (67/548/EEC) INFORMATION:

		M	¥		@	X	X
С	E	F	N	0	Т	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful

CLP/GHS (1272/2008/EC) PICTOGRAMS:

			\Diamond	Pal Service Control of the Control o		\ODE		
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environ- ment