**REVISION DATE: July 13, 2017** 

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 2605 (Cartridge

Brass)

210 (Gilding Metal 210) 226 (Commercial Bronze 226) 240 (Low Brass 240) 272 (Yellow Brass 272)

2605 (Cartridge Brass 70-30)

SYNONYMS:

210 (Gilding Metal 95-5) 226 (Commercial Bronze 90-10) 240 (Low Brass 80-20) 272 (Yellow Brass 63 1/2)

CHEMICAL FAMILY: Copper-Zinc Alloy **GENERIC NAME:** Binary Brass

CAS NO: None

MANUFACTURER: Aurubis Buffalo, Inc.

ADDRESS: 70 Sayre Street PO Box 981 Buffalo, NY 14240

EMERGENCY PHONE: (716) 879-6700 Company

COMPANY ID NO .: N/A UN/NA ID NO.: N/A

DOT HAZARDOUS MATERIALS PROPER SHIPPING NAME: N/A

DOT HAZARD CLASS: None

**SECTION 2: HAZARDS IDENTIFICATION** 

EMERGENCY OVERVIEW: Metal machining or grinding operations may produce fine particulate or dust; heating, melting, welding, or brazing may produce metal fumes and particulates. Inhalation or excessive fume or dust concentrations may result in respiratory tract irritation and/or metal fume fever.

SUMMARY OF ACUTE HAZARDS: Respiratory Tract Irritation, Metal Fume Fever, Eye Irritation.

ROUTE OF EXPOSURE	SIGNS AND SYMPTOMS	PRIMARY ROUTE
Inhalation	Inhalation of excessive dust or fume concentrations may result in respiratory tract irritation and metal fume fever. Symptoms of metal fume fever may last 24 to 48 legs to 10	
	and may include a sweet or metallic taste in the mouth, dryness and irritation of the cough, shortness or breath, chest pain, nausea, vomiting, weakness, fatigue, mus joint pain, chills, sweating and fever.	
Eye Contact	Mechanical irritation may result from an accumulation of dust particles in the eye.	(X)
Skin Absorption	No significant signs or symptoms indicative of an adverse effect are expected to o	occur. ( )
Skin Irritation	No significant signs or symptoms indicative of an adverse effect are expected to o	ccur. ()
Ingestion	If swallowed in large quantities, this material could have a toxic effect.	( )
Symptoms of Chronic	Those rare individuals (one person in 200,000 population) suffering from the gene	tic
Hazards and Special	disorder known as Wilson's Disease do not eliminate copper from the system in a	normal
Health Effects	fashion and should minimize ingestion and inhalation of copper containing material	ils.

customers.

260 (Cartridge Brass)

230 (Red Brass 230)

268 (Yellow Brass 268)

280 (Yellow Brass 272)

230 (Red Brass 85-15)

268 (Yellow Brass 66-34)

280 (Yellow Brass 63 1/2)

260 (Cartridge Brass 70-30)

220 (Commercial Bronze 90-10)

IMPORTANT: Read this SDS before handling or disposing

of this product and pass this information on to employees or

users of this product. Where modification of any kind is made to this product prior to resale, the modifying party or the

reselling party must generate their own SDS for their

220 (Commercial Bronze 220)



# **SAFETY DATA SHEET**

No. 007

**REVISION DATE: July 13, 2017** 

Component Nam	е	CAS No.	Carcinogen ##	Composition Amount			
Copper		7440-50-8	N/AP	60% to 95%			
Zinc		7440-66-6	N/AP	Remainder			
Lead		7439-92-1	N/AP	≤ .0090%			
Iron		7440-66-6	N/AP	≤ .030%			
Tin		7440-31-5	N/AP	≤ .050%			
Arsenic		7440-38-2	N/AP	≤ .005%			
Nickel		7440-02-0	N/AP	≤ .050%			
Cadmium		7440-43-9	N/AP	≤ .002%			
Sulfur		7404-34-9	N/AP	≤ .0050%			
Phosphorus		7723-14-0	N/AP	≤ .002%			
Antimony		7440-36-0	N/AP	≤ .010%			
Bismuth		7440-69-9	N/AP	≤ .002%			
Tellurium		13454-80-9	N/AP	≤ .010%			
## Listed by:	1 = NTP	2 = IARC	3 = OSHA	4 = Other			
Components are ty	ypical values, no	7404-34-9 N/AP ≤ .0050% 7723-14-0 N/AP ≤ .002% 7440-36-0 N/AP ≤ .010% 7440-69-9 N/AP ≤ .002% 13454-80-9 N/AP ≤ .010%					

#### **SECTION 4: FIRST AID MEASURES**

Inhalation:

Immediately remove from contaminated area to fresh air. If irritation persists, or if other signs or symptoms

develop, seek medical attention.

Eye Contact:

Mechanical injury only. Treat as mechanical injury only. Treat as inert foreign body.

Skin Contact:

Not expected to present a significant skin contact hazard under anticipated conditions of normal use.

Ingestion:

Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

**Emergency Medical** 

Treatment Procedures:

Metal fume fever may be treated symptomatically.

## **SECTION 5: FIRE-FIGHTING MEASURES**

Flash Point (method)

N/AP

Autoignition Temperature

N/AP

(method)

Flammable Limits (% volume in air)

Upper

N/AP

Lower

N/AP

Fire and Explosion Hazards

Dust hazard exists under favoring conditions of small particle size. Dispersion in air and strong

ignition source may result in an explosion.

Extinguishing Media

Dry chemical; use dry powder for metal fires. Gently spoon media onto fire. Do not disturb dust

particles.

Special Firefighting

Procedures

Do not enter fire area without proper protection including pressure-demand, self-contained breathing

apparatus.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

Precautions if Material is Spilled or Released

No notable environmental hazard is anticipated from the "release" of this material in bulk solid form on land. This material should be recovered from aquatic environments. If finely divided material is spilled in excess of EPA or state reportable quantities, the appropriate authorities should be contacted. For air emissions consult your local authority.

## **SECTION 7: HANDLING AND STORAGE**



No. 007

**REVISION DATE: July 13, 2017** 

Handling, Storage and Decontamination

Good housekeeping must be practiced during storage, transfer, handling and use to avoid excessive dust accumulation. Apply recommendations of NFPA 491 for copper alloys. Procedures

SECTION 8: EXPOSURE CO	ONTROLS/PERS	SONAL PROTEC	TION				
Substance	Source	Date	Type	Value/Units	Time		
Copper Fume	OSHA	1988	TWA	0.1 MG/M3	8 Hrs.		
Copper Dusts and Mists	OSHA	1988	TWA	1 MG/M3	8 Hrs.		
Zinc Oxide Fume	OSHA	1988	TWA	5 MG/M3	8 Hrs.		
Zinc Oxide Fume	OSHA	1988	TWA	10 MG/M3	8 Hrs.		
Copper Fume	ACGIH	1988	TWA	0.2 MG/M3	8 Hrs.		
Copper Dusts & Mists, as CU		1988	TWA	1 MG/M3	8 Hrs.		
Zinc Oxide Fume	ACGIH	1988	TWA	5 MG/M3	8 Hrs.		
Zinc Oxide Fume	ACGIH	1988	TWA	10 MG/M3	8 Hrs.		
Zinc Oxide Pulle Zinc Oxide Dust	ACGIH	1988	TWA	10 MG/M3	8 Hrs.		
Respiratory	If exposure exceeds the PEL/TLV, use NIOSH-approved respiratory protection as specified in the NIOSH/OS Occupational Health Guidelines for Chemical Hazards.						
Eye	Use safety glasses with side-shields or goggles to prevent injury from flying particles of high dust concentrations. Use goggles or shield with appropriate light filtration during welding or cutting operations.						
Skin	Where use can result in skin contact with particulate, practice good personal hygiene. Wash hands or other exposed areas with a mild soap and water before eating, drinking or smoking.						
Engineering Controls	Use adequate ventilation to keep fume or dust concentration below the occupational exposure limits shown in Section VI. (Refer to ANSI Z49.1, "Safety in Welding and Cutting" and "OSHA Regulation" CFR 1910.252.)						
Other Personal Hygiene Work Practices	Where applicab	le, use protective	gloves to protect again	st heat or sharp metal edge	s.		
SECTION 9: PHYSICAL AND	CHEMICAL PR	ROPERTIES					
Boiling Points	Viscosity Units, Temp Method		Dry Point	Dry Point			
N/AP	N/AP			N/AP			
Freezing Point	Vapor Pressure		Sol. In Water	Volatile Char			
N/AP	N/AP		N/AP	Solids not Vo	olatile		
Specific Gravity Water at 39F = 1			Vapor Sp. Gr. (Air = 1 at STP) N/AP		pH NAP		
3.45 to 8.86		N/A	AP	N/AP			
SECTION 10: STABILITY AN	D REACTIVITY						
Hazardous Polymerization				Stability			
No				Stable			
Other Chemical Reactivity N/AP							
Physical and Chemical Proper Melting/freezing range 1650 F					<u>Other</u>		
Conditions to Avoid Exposure during storage to str	Materials to A	 <u>Avoid</u> monia and Acetylene.					
Hazardous Decomposition Pro	ducts						
ECTION 11: TOXICOLOGIC	AL INFURNATI	ON					

TOXICOLOGICAL INFORMATION:

No. 007

**REVISION DATE: July 13, 2017** 

Use good personal hygiene. Wash hands with mild soap and water before eating, drinking, smoking, or before leaving work. Salts of metal components have demonstrated mutagenic potential in several bioassays, but the health significance of these results is unknown.

## **SECTION 12: ECOLOGICAL INFORMATION**

No notable environmental hazard is anticipated from "release" of this material in bulk solid form on land. This material should be recovered from aquatic environments. If finely divided material is spilled in excess of EPA or state reportable quantities, the appropriate authorities should be contacted. For air emissions consult your local authority.

#### **SECTION 13: DISPOSAL CONSIDERATIONS**

Maximize product recovery for reuse or recycling. Conditions of use may cause this material to become a solid "Hazardous Waste" as defined by state or federal laws. Solid waste "leachate" testing may indicate the need for properly permitted disposal of such wastes in compliance with all applicable laws.

Conditions of use may also generate liquid wastes with metal concentrations in excess of those permitted through pre-treatment or direct discharge NPDES requirements. Appropriate analyses should be conducted to ensure compliance with existing wastewater permits.

#### SECTION 14: TRANSPORT INFORMATION

DOT Hazardous Materials Proper Shipping Name: None

DOT Hazard Class: N/AP

#### SECTION 15: REGULATORY INFORMATION

The copper and zinc in this material makes it subject to the reporting requirements of section 313 of Title III of the superfund amendments and reauthorization act of 1986 and 40 CFR Part 372. This notice must not be detached from this Safety Data Sheet and any copying or redistribution of this data sheet must include this notice.

#### **CALIFORNIA PROPOSITION 65 Compliance**

WARNING: This product contains or produces chemicals known to the State of California to cause cancer and birth defects (or other reproductive harm). (California Health & Safety Code 25248.5 et seq.)

#### **SECTION 16: OTHER INFORMATION**

Note: EQ = Equal

GT = Greater Than

AP = Approximately TR = Trace N/P = Not Applicable N/AP = Not Applicable LT = Less Than UK = N/DA = No Data Available

UK = Unknown

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without warranty, express or implied, regarding its correctness.

The conditions or methods of handling, storage, use and disposal of this product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage and disposal of the product.