

SAFETY DATA SHEET

Date: June 2015

Section #1: PRODUCT AND COMPANY IDENTIFICATION

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Product Identification: Plastic Molding Compound Granules

Product Name: METS-BAKE-RED-XXXX

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

Health:

Serious Eye Demage/Eye Irritation, Category 1 Germ Call Mutageniolty, Category 2

Target Organ Toxicity (Repeated exposure), Category 2

Skin Sensitization, Category 1B

GHS LABEL



Health



Corresion



Exclemetion

hererd merk

SIGNAL WORD: DANGER HAZARD STATEMENTS

H317: May sause an allergia skin reaction.

H318: Causes serious eye damage.

H341: Suspected or causing genetic derects.

H373: May cause damage to organs through prolonged or repeated exposure.

HNOC: HAZARDS NOT OTHERWISE CLASSIFIED OR NOT COVERED BY GHS:

Organio dust can form highly explosive mixtures when finely suspended in air. Avoid dust-laden atmospheres, minimize dust generation and accumulation.

PRECAUTIONARY STATEMENTS

Prevention:

P201: Obtain special instructions before use.

P202: Do not handle until all sefety precautions have been read and understood.

P241: Use explosion-proof electrical and ventilating equipment.

P260: Do not breathe dust

P264: Wash hands and for earms thoroughly after handling.

P272: Conteminated work clothing should not be allowed out of the workplace.

P280: Wear protective gloves/protective clothing/eye protection/race protection.

P281: Use personal protective equipment (PPE) as required.

Response:

P302+P352: IF ON SKIN: Wash with plenty of water and soap.

P305+P351+P338: IF IN EYES: Rinse cautiously 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.

P314: Get medical advice/attention if you feel unwell.

P321: Specific treatment: Wash affected areas immediately with plenty of water and soap.

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P337+P313: If eye irritation persists: Get medical advice/attention.

P362+P364: Take off contaminated clothing and wash it before reuse.

Storage:

P405: Store locked up.

Disposal:

P501: Dispose of contents and empty containers in accordance with local, regional and federal regulations.

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS: HAZARDS NOT OTHERWISE CLASSIFIED (HNOC) OR NOT COVERED BY GHS:

Organic dust can form highly explosive mixtures when finely suspended in air. Avoid dust-laden atmospheres; minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dust does not accumulate on surfaces. Dry powders can build up static electric charges when subjected to the friction of transfer and mixing operations. Implement adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Eliminate all sources of ignition, e.g. open flames, sparks or electrostatic discharge and use explosion proof motors. Ensure that all areas where explosions could occur are designated appropriately. For recommendations to prevent such explosions and associated damage, consult applicable guidelines such as NFPA 68, "Standard on Explosion Protection by Deflagration Venting", NFPA 69, "Standard on Explosion Prevention Systems" and/ or NFPA 654, "Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing and Handling of Combustible Particulate Solids". For more information refer to Section #7 of this SDS.

POTENTIAL HEALTH EFFECTS

EYES: Contact may cause eye irritation or damage.

SKIN: Contact may cause allergic skin reactions.

SKIN ABSORPTION: Skin absorption is unlikely to occur due to the physical form of the product.

INGESTION: May be harmful if swallowed.

INHALATION: Dust particles may cause respiratory tract irritation, coughing and wheezing.

REPRODUCTIVE TOXICITY

REPRODUCTIVE EFFECTS: Not known or believed to be a reproductive toxin.

TERATOGENIC EFFECTS: Not known or believed to be teratogenic.

CARCINOGENICITY: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen.

MUTAGENICITY: Phenol is a mutagen, which tested positive in in-vivo and in-vitro assays.

MEDICAL CONDITIONS AGGRAVATED: Asthma, Respiratory disorders, Skin Allergies, and Eczema.

ROUTES OF ENTRY: Inhalation, ingestion and through skin contact.

TARGET ORGAN STATEMENT: Possibility of organ or organ system damage from prolonged exposure; target organs: heart, kidney, liver, skin, central nervous system (CNS), respiratory system. See Section 11 for details.

IRRITANCY: Dust particles have the potential to cause mechanical irritation of skin and eyes.

SENSITIZATION: Contact may cause allergic skin reaction.

COMMENTS: Refer to Section 11 for detailed information on health effects and symptoms.

AS SOLD the product is a plastic molding compound: A plastic resin (phenol-formaldehyde polymer) intimately mixed and reacted with one or more of a variety of organic and/or inorganic filling materials. When fully "cured" or reacted, the plastic resin is insoluble, infusible and binds the well- dispersed, embedded filling materials. However, "As Sold" the plastic resin is not completely "cured" or reacted and contains some unreacted ingredients dissolved within it. So dissolved, these chemicals are unlikely to pose a hazard; but because they are hazardous in their pure forms, OSHA requires that they be reported and

described as hazardous ingredients. Under normal conditions of storage and handling, no significant amount of hazardous vapors should evolve from the "As Sold" product. Because phenol is more soluble in the resin than in water, there is no likely significant health hazard through skin absorption. The great majority of filling materials are embedded within compound granules that are large enough not to constitute an inhalation hazard. Nevertheless, some particles of plastic resin and/or filling materials may be present in a size that constitutes a respirable dust (including, in some products, up to 1% inorganic filling material mixed in after compounding). This respirable dust may contain one or more of the following materials: carbon black, coal dust, fibrous glass, graphite, mica, mineral wool fiber, talc, and/or wood flour (soft). Chronic inhalation of each of the above has been associated with fibrotic lung disease. For most or all, it has also been associated with increased risk of lung cancer, especially among smokers. Inhalation of dust should be avoidable with proper material handling procedures and good ventilation, but if not, Personal Protective Equipment (PPE) should be worn. The primary acute health risk from exposure to the product "As Sold" is irritation, especially from the dust. Ingestion, inhalation of dust, and contact with skin and eyes should be avoided.

AS USED during polymerization (e.g., curing of the product during normal processing) or decomposition (e.g., overheating or burning of the product) small amounts of gaseous ammonia, phenol and formaldehyde (as well as water vapor, carbon monoxide and carbon dioxide) are evolved. Breathing of the fumes can be harmful. If the odor of ammonia or formaldehyde is noticeable, then the airborne concentration of these chemicals should be carefully monitored and ventilation improvements considered; These chemicals begin to be detectable by odor at concentrations approaching or exceeding the PEL. The odor of phenol begins to be noticeable at a concentration about one- fifth the PEL. In any case, adequacy of ventilation can best be determined by use of instruments to monitor airborne concentrations of ammonia, phenol and formaldehyde. Grinding or machining of cured molded material may create a dust that poses a respiratory hazard if inhaled (see above) and may release small amounts of gaseous ammonia.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Phenol Formaldehyde Resin	30 - 60	9003-35-4
Hexamethylenetetramine	2 - 15	100-97-0
Phenol	< 3.5	108-95-2
Formaldehyde	< 0.1	50-00-0
Calcium Hydroxide	0 - 10	1305-62-0
Carbon Black	0 - 12	1333-86-4
Coal Dust	0 - 18	
Graphite (natural)	0 - 40	7782-42-5
Kaolin	0 - 40	1332-58-7
Mica	0 - 60	12001-26-2
Talc	0 - 20	14807-96-6
Wood Flour	0 - 60	

4. FIRST AID MEASURES

EYES: Immediately flush eyes with copious amounts of water for at least 15 minutes while lifting the eyelids. Seek medical attention if irritation occurs.

SKIN: Flush with large amounts of water for at least 10 minutes. Remove contaminated clothing. Seek medical attention if adverse effects occur.

INGESTION: If material is swallowed, seek immediately medical attention or advice. DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious person. If vomiting occurs, keep head below hips to prevent aspiration into lungs.

INHALATION: Move person to non-contaminated area or outside of the building. If breathing proves difficult, seek immediate medical attention.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Redness, burning sensation and tearing (watering) of the eyes.

SKIN: Skin dryness or irritation.

SKIN ABSORPTION: Skin absorption is unlikely to occur due to the physical form of the material.

INGESTION: No effects known.

INHALATION: Harmful if inhaled. If breathing is affected, immediately move to fresh air. Seek medical attention if headache, dizziness or visual problems develop. Administer oxygen if breathing difficulty persists.

ACUTE TOXICITY: None Expected.

CHRONIC EFFECTS: None Expected.

NOTES TO PHYSICIAN: If decomposition products are inhaled in a fire, symptoms may be delayed. The person exposed to fumes or decomposition products may need to be kept under medical surveillance.

5. FIRE FIGHTING MEASURES

FLAMMABLE CLASS: Not classifiable as a flammable material.

FLAME PROPAGATION OR BURNING RATE OF SOLIDS: Product does not sustain fire or propagate flames.

GENERAL HAZARD: Avoid the generation or accumulation of dust as combustible particles can potentially form explosive mixtures with air.

EXTINGUISHING MEDIA: Dry Chemical, carbon dioxide (CO2), alcohol resistant foam or water spray.

HAZARDOUS COMBUSTION PRODUCTS: Phenol, formaldehyde, ammonia, carbon dioxide and carbon monoxide.

EXPLOSION HAZARDS: Clouds of flammable particles suspended in air may form explosive mixtures. Avoid the generation of dust/ air mixtures and remove any sources of ignition, e.g. flames, sparks, flares or electrostatic discharge.

SENSITIVE TO STATIC DISCHARGE: Electrostatic discharge may trigger a dust explosion if sufficient quantities of combustible particles are suspended in air.

SENSITIVITY TO IMPACT: Not Applicable

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: With shovel and scoop, place material into clean, dry container; move containers from spill area. Minimize air-borne particulates. Use Personal Protective Equipment (PPE) to protect against inhalation of dust. Wear eye protection, gloves and avoid contact with skin.

LARGE SPILL: Use the same methods described for small spills. Place material into appropriate containers for disposal.

RELEASE NOTES: Inform the relevant authorities if the product has been discharged into the environment, e.g. sewers, waterways, soil or air.

SPECIAL PROTECTIVE EQUIPMENT: Not Established

7. HANDLING AND STORAGE

HANDLING: Use with adequate ventilation and utilize Personal Protection Equipment (PPE) if exposure limits are exceeded. Point source exhaust recommended to remove airborne dust particles during use. Avoid source of ignition, e. g. heat, flames or electrostatic charges and use explosion proof motors. Avoid contact with eyes and repeated or prolonged contact with skin. Wash hands thoroughly after handling. Keep away from food or drinking water.

STORAGE: Store in original unopened or closed packaging, ideally at temperature less than 86°F (30°C) and under humidity control.

SPECIAL SENSITIVITY: Like most organic compounds this product is sensitive to strong oxidizing agents and may either decompose or ignite when mixed with same.

ELECTROSTATIC ACCUMULATION HAZARD: Point source exhaust recommended to remove dust particles evolved during handling or processing. If dust is generated, use explosion proof motors and avoid sources of ignition, e. g. heat, flames, sparks or electrostatic discharges.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSI	HA HAZARDOUS COM	PONENTS	(29 CFR19	10.1200)			
				EXPOSU	RE LIMITS		•
		OSH	A PEL	ACG	H TLV	Suppli	er OEL
Chemical Name		ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
Phenol	TWA	5	19	5	19	NL	NL
	STEL					NL	NL
Formaldahuda	TWA	0.75				NL	NL
Formaldehyde	STEL	2				NL	NL
Calcium Hydroxide	TWA		15T 5R		5		
Carbon Black	TWA		3.5		3.5		
Coal Dust	TWA		10		2		
Graphite (natural)	TWA	15cf			2		
Kaolin	TWA		15		2		
Mica	TWA	20cf			3		
Talc	TWA	20cf			2		
Wood Flour	TWA		15		5		

ENGINEERING CONTROLS: If the handling or processing of the resin generates dust, use ventilation to keep exposure to airborne particles below the permissible exposure limits. Monitoring of the workplace atmosphere may be required to ensure the effectiveness of the engineering controls and/ or the necessity to utilize Personal Protection Equipment (PPE).

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Safety glasses with side shields are recommended. Snug-fitting googles should be worn in dusty work environments.

SKIN: Wear protective clothing and chemical resistant gloves to prevent skin contact. Remove contaminated clothing immediately and wash thoroughly before reuse.

RESPIRATORY: If exposure limits are exceeded, use properly fitted respiratory protection equipment particularly selected for the prevailing conditions.

PROTECTIVE CLOTHING: Work gloves and skin protection are recommended for the handling of this product. Launder contaminated work clothing separate from regular laundry.

WORK HYGIENIC PRACTICES: Maintain a clean work environment and practice good hygiene. Wash hands, face and forearms thoroughly after handling of this product, before eating or drinking and at the end of the work shift.

OTHER USE PRECAUTIONS: Not Available

9. PHYSICAL AND CHEMICAL PROPERTIES

ODOR: Slight odor of phenol

APPEARANCE: Granular, nodular, pellet, or briquette

pH: Not Applicable

PERCENT VOLATILE: Not Applicable

FLASH POINT AND METHOD: Not Applicable

FLAMMABLE LIMITS: LEL: Dust. 0.030 oz. per cubic foot to UEL: No data

VAPOR PRESSURE: Not Applicable VAPOR DENSITY: Not Applicable BOILING POINT: Not Applicable THERMAL DECOMPOSITION: Not Available

SOLUBILITY IN WATER: Negligible **EVAPORATION RATE:** Not Applicable

SPECIFIC GRAVITY: See technical data sheet **OXIDIZING PROPERTIES:** Not Applicable

10. STABILITY AND REACTIVITY

REACTIVITY: Stable

HAZARDOUS POLYMERIZATION: Should not occur.

STABILITY: This product is stable under normal conditions of storage and use.

CONDITIONS TO AVOID: Avoid storage at high temperatures or exposure to open flames.

POSSIBILITY OF HAZARDOUS REACTIONS: Like most organic compounds this product is sensitive to strong oxidizing agents and may either decompose or ignite when mixed with same.

HAZARDOUS DECOMPOSITION PRODUCTS: Vapors evolved during decomposition may contain phenol, formaldehyde, ammonia, carbon dioxide and carbon monoxide.

INCOMPATIBLE MATERIALS: Avoid contact with strong oxidizers as this may lead to violent reactions.

11. TOXICOLOGICAL INFORMATION

ACUTE

Chemical Name	ORAL LD ₅₀	DERMAL LD50	INHALATION LC ₅₀
Phenol	317 mg/ kg BW	630 mg/ kg BW	316 mg/ m ³ (rat/
	(rat)	(rabbit)	1h)
Formaldehyde	800 mg/ kg BW	270 mg/ kg BW	578 mg/ m ³ (rat/
	(rat)	(rabbit)	1h)
Calcium Hydroxide	7340 mg/ kg BW (rat)		

DERMAL LD50: > 5000 mg/ kg bodyweight (rabbit) **Notes:** Mixture - Acute Toxicity Estimate (ATE) **ORAL LD50:** > 5000 mg/ kg bodyweight (rat) **Notes:** Mixture - Acute Toxicity Estimate (ATE)

INHALATION LC50: No data available.

EYE EFFECTS: Contact may cause severe eye irritation or damage.

CHRONIC: Prolonged or repeated exposure may lead to chronic effects. Target organs: heart, liver, kidney, central nervous system (CNS), respiratory system.

CARCINOGENICITY

Chemical Name	NTP Status	IARC Status	OSHA Status
Phenol	Not Available	Group 3: The agent is not classifiable as to its carcinogenicity in humans	Not Available
Formaldehyde	known to be a human carcinogen	Group 1: carcinogenic to humans	potential human carcinogen

Notes: Less than 0.1% formaldehyde present. **REPEATED DOSE EFFECTS:** No data available.

IRRITATION: Contact with this product may cause eye irritation.

CORROSIVITY: Not Applicable

SENSITIZATION: May cause allergic skin reactions.

REPRODUCTIVE EFFECTS: None known.

TARGET ORGANS: Components of this product have the potential to cause organ damage (heart, liver, kidney, skin, central nervous system (CNS) and respiratory system) through prolonged and repeated exposure.

TERATOGENIC EFFECTS: No effects known.

MUTAGENICITY: Phenol: Classified as a mutagen (Category 2).

SYNERGISTIC MATERIALS: No specific data.

GENERAL COMMENTS: This product may contain a small amount crystalline silica (quartz), as a natural occurring impurity in mineral. The mineral is encapsulated within the molding compound by resin. Significant exposure to free respirable quartz is not expected under normal conditions of use and processing of this product. Respirable quartz may be released by grinding, machining or abrading of this product. The NTP's Report on Carcinogens lists crystalline silica (respirable size) as a known human carcinogen. IARC concluded that there is sufficient evidence in humans for the carcinogenicity of inhaled (respirable) crystalline silica.

12. ECOLOGICAL INFORMATION

COMMENTS: [This section deliberately left blank]

13. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL: Avoid or minimize the generation of waste. Contact a licensed waste disposal contractor to manage the disposal of non-recyclable material.

GENERAL COMMENTS: Dispose of in compliance with local, state, federal and international regulations.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PRIMARY HAZARD CLASS/DIVISION: Not hazardous

AIR (ICAO/IATA)

PRIMARY HAZARD CLASS/DIVISION: Not hazardous

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

EPCRA SECTION 313 SUPPLIER NOTIFICATION

Chemical Name	Wt.%	CAS
Phenol	< 3.5	108-95-2

CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT)

Chemical Name	W _t .%	CERCLA RQ
Phenol	< 3.5	1,000
Formaldehyde	< 0.1	100

TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS
Phenoi Formaidehyde Resin	9003-35-4
Hexamethylenetetramine	100-97-0
Phenol	108-95-2
Formaldehyde	50-00-0
Calcium Hydroxide	1305-62-0
Carbon Black	1333-86-4
Graphite (natural)	7782-42-5
Kaolin	1332-58-7
Talc	14807-96-6

CLEAN AIR ACT

Cremical Name	Wt. %	CAS
Formaldehyde	< 0.1	50-00-0

CALIFORNIA PROPOSITION 65. California law requires the following statement to be included: "Contains a chemical (Formaldehyde) known to the State of California to cause cancer."

Chemical Name	Wt.%	Listed
Formaldehyde	< 0.1	Cancer
Carbon Black	0 - 12	Cancer
Wood Flour	0 - 60	Cancer

16. OTHER INFORMATION

<u>DISCLAIMER</u>: The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued. LAPMASTER WOLTERS MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the LAPMASTER WOLTERS is fit for a particular purpose and if it is suitable for the method of use or application. Given the variety of factors that can affect the use and application of a LAPMASTER WOLTERS product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the LAPMASTER WOLTERS product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

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