

MATERIAL SAFETY DATA SHEET

MSDS Name: HIGH TEMPERATURE LAB METAL
 MSDS Number: HT LAB METAL
 Version Number
 MSDS Date: OCT-30-2012
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SECTION 1. PRODUCT AND COMPANY INFORMATION

Product Name: HIGH TEMPERATURE LAB METAL
 CAS Number: N/A
 Hazard Rating: Health: 1 Fire: 2 Reactivity: 1 PPI:

Company Identification: COLUMBIA COATINGS
 1173 INDUSTRIAL PARK RD
 COLUMBIA, TN 38401

Contact: BRIAN TALLEY
 Telephone/Fax: (931) 388-7730
 Emergency Phone (24 Hour): FOR INTERNATIONAL CHEMTREC
 001 703 527 3887
 Chemtrec (24 Hour): 800-424-9300 CCN6206

Product Class: INDUSTRIAL COATING
 Trade Name: HIGH TEMPERATURE LAB METAL
 Product Code: HIGH TEMPERATURE LAB METAL
 UN Number: 1263
 Shipping Name: PAINT

SECTION 2. INGREDIENT AND HAZARD INFORMATION

Ingredient Name	CAS Number	Percent	TSCA
ATOMIZED ALUMINUM POWDER	7429-90-5	42.17	Y
*ZINC DUST	7440-66-6	8.95	Y
XYLENE (HAPS)	1330-20-7	5.51	Y
TOLUENE (HAPS)	108-88-3	3.82	Y
*METHYL ETHYL KETONE (HAPS)	78-93-3	3.15	Y
ETHYL BENZENE (HAPS)	100-41-4	1.70	Y

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*** ALL Ingredients in this product are listed in the T.S.C.A. Inventory

** SPECIAL REMARKS ON ABOVE LISTED INGREDIENTS **

Technical grade xylene contains 18-20% ethyl benzene CAS # is 100-41-4 and is subject to reporting requirements of SECTION 313 of SARA TITLE III.

ACGIH recommends a TWA of 50 ppm for toluene (skin).

SECTION 3. PHYSICAL DATA

Form: PASTE
Appearance/Color: GRAY
Odor: SOLVENT
pH Value: Not Applicable
Boiling Range: 230.0F - 279.0F
Melting Point: Not Applicable
Evaporation Rate: 0.209 times Faster than n-Butyl Acetate
Vapor Density: Heavier than air
Partition Coefficient: Not Available
% Volatile Weight: 10.95%
% Volatile Volume: 24.09%
Specific Gravity: 1.85472
Weight/Gallon: 16.594lbs
VOC: 1.82 LBS/GAL
Heavy Elements (ppm): 0.

SECTION 4. FIRE AND EXPLOSION HAZARD DATA

Flammability Class: 2
Flash Range: 45.0F - 80.0F
Explosive Range: 1.4%
7.4%

EXTINGUISHING MEDIA:

Foam, alcohol foam, CO2, dry chemical, water fog may be ineffective but should be used to cool fire-exposed containers to prevent pressure build up and possible auto-ignition or explosion when exposed to extreme heat.

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SPECIAL FIREFIGHTING PROCEDURES:

Use full protection equipment including self-contained breathing apparatus (NIOSH approved) for respiratory protection in fighting fires in enclosed or confined spaces, or as otherwise needed. Minimize breathing gases, vapors, fumes or decomposition products.

UNUSUAL FIRE & EXPLOSION HAZARDS:

During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SECTION 5. HEALTH HAZARD DATA

Route	Species	Exposure and Dose
*ZINC DUST		
Inhalation	Unknown	LD50 124. PPM
XYLENE (HAPS)		
Inhalation	Rat	LC50 4 HOURS 5000. PPM
Oral	Rat	LD50 4300. mg/kg
Skin	Rabbit	LD50 1700. mg/kg
TOLUENE (HAPS)		
Inhalation	Rat	LC50 4 HOURS 28800. mg/M3
Oral	Rat	LD50 5580. mg/kg
Skin	Rabbit	LD50 12196. mg/kg
*METHYL ETHYL KETONE (HAPS)		
Inhalation	Rat	LC50 11700 MG/L 11700. Other
Oral	Rat	LD50 2900. mg/kg
Skin	Rabbit	LD50 5000. mg/kg
ETHYL BENZENE (HAPS)		
Skin	Rabbit	LD50 15433. mg/kg

PERMISSIBLE EXPOSURE LEVEL:

SEE SECTION VIII

EFFECTS OF OVEREXPOSURE:

Primary route(s) of entry:

(X) Dermal (X) Inhalation () Ingestion

Acute (short term) exposure:

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Inhalation - excessive inhalation of vapors can cause nasal and respiratory irritation, CNS effects including dizziness, weakness, nausea, headache, possible unconsciousness, and even death.

Skin contact - prolonged or repeated contact can cause moderate irritation, defatting, and dermatitis.

Eye contact - can cause severe irritation, redness, tearing, and blurred vision.

Ingestion - can cause gastrointestinal irritation, nausea, vomiting, and diarrhea. Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal.

MEK has been shown to cause harm to fetus in laboratory animal studies, the relevance of these findings to humans is uncertain.

EMERGENCY AND FIRST AID PROCEDURES:

Eyes - flush thoroughly with running water for 15 minutes, including under eyelids. Get medical attention.

Skin - promptly remove contaminated clothing and wash affected areas thoroughly with soap and water. If irritation occurs get medical attention. Wash contaminated clothing thoroughly before re-use.

Inhalation - if overcome by vapor, remove to an area free from risk of further exposure. If breathing is difficult, administer oxygen, or artificial respiration if breathing has stopped. Keep person warm and quiet and get medical attention.

Ingestion - if swallowed, call a physician immediately. Only induce vomiting at the instructions of a physician. Never give anything by mouth to an unconscious person. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE:

Pre-existing eye, skin, liver and/or kidney disorders may be aggravated by exposure to this product.

Chronic (long term) exposure:

In laboratory animals - overexposure to this material (or its components) has been found to cause the following effects; anemia, liver abnormalities, kidney, lung and spleen damage.

In humans - liver and cardiac abnormalities.

Toluene may be harmful to the fetus based on laboratory animal studies. Repeated exposure to toluene has been associated with high frequency hearing loss based on evidence in laboratory

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animals. The human health consequences of this finding is uncertain.
Chronic overexposure to xylene has been suggested to cause cardiac abnormality in humans.

SECTION 6. STABILITY AND REACTIVITY MEASURES

Stability: This product is stable
Hazardous Polymerization: Hazardous polymerization will not occur

INCOMPATIBILITY:

Avoid contact with strong oxidizing agents, acids or bases.

CONDITIONS TO AVOID:

Avoid heat, open flames.

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon monoxide and unidentified organics may be formed.

SECTION 7. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Before attempting cleanup, refer to hazard caution information in other sections of this sheet. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

Large spills - notify safety personnel. Eliminate potential sources of ignition. Wear appropriate respirator and protective clothing. Soak up with an absorbent, I.E. sand, clay, or other suitable material. Place in non-leaking containers and seal tightly for proper disposal. Ventilate confined spaces. Minimize breathing vapors. Open all windows and doors. Minimize skin contact. Keep product out of sewers and water courses by diking and impounding. Observe precautions for volatile, combustible vapors from absorbed material.

Small spills - take up with absorbent material and place in non-leaking containers for proper disposal.

WASTE DISPOSAL METHOD:

Assure conformity with applicable federal, state and local regulations.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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Occupational Exposure Limits

	ACGIH TLV	ACGIH TLV-C	ACGIH STEL	OSHA STEL	OSHA PEL
ATOMIZED ALUMINUM POWDER	15.00 mg/M3	N/est	N/est	N/est	N/est
*ZINC DUST	10.00 mg/M3	N/est	N/est	N/est	10.00 mg/M3
XYLENE (HAPS)	100.00 PPM	N/est	150.00 PPM	150.00 PPM	100.00 PPM
TOLUENE (HAPS)	N/est	N/est	100.00 PPM	150.00 PPM	100.00 PPM
*METHYL ETHYL KETONE (HAPS)	200.00 PPM	N/est	300.00 PPM	300.00 PPM	200.00 PPM
ETHYL BENZENE (HAPS)	100.00 PPM	N/est	125.00 PPM	125.00 PPM	100.00 PPM

RESPIRATORY PROTECTION:

Use NIOSH approved respirator as required to prevent overexposure.

Unconfined spaces - use a vapor/particulate respirator such as NIOSH approved No. TC-23C.

Confined spaces - use a constant flow air-line respirator such as NIOSH approved NO. TC-19C.

VENTILATION:

Provide sufficient ventilation to keep air contaminant concentration below current applicable OSHA permissible exposure limit or ACGIH's TLV limit.

No smoking or open lights.

PROTECTIVE GLOVES:

Use chemical-resistant gloves to prevent skin contact.

EYE PROTECTION:

Use chemical splash goggles or face shield to prevent eye contact.

OTHER PROTECTIVE EQUIPMENT:

Use chemical-resistant or other protective outerwear to protect against clothing contamination and skin contact.

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SECTION 9. SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING, TRANSPORTATION, AND STORING:

CAUTION! FLAMMABLE! Handling and storage conditions must be suitable for OSHA CLASS I flammable liquid. Store in cool, well-ventilated, fire resistant storage area. Protect containers against physical damage. Keep away from heat, flame, and strong oxidizing agents. Do not store above 100 degrees F. Use only with adequate ventilation. Keep containers closed when not in use. Do not breathe vapor or mist. Avoid contact with eyes, skin and clothing. Do not take internally. Bond and ground containers of this material when pouring to avoid static sparks which create a fire hazard.

OTHER PRECAUTIONS:

Contact lenses pose a special hazard; soft lenses may absorb and all lenses concentrate irritants.

SECTION 10. REGULATORY INFORMATION

SARA TITLE III SECTION 313:

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right to Know Act of 1986 and of 40 CFR 372:

Ingredient Name	CAS Number	Percent
*ZINC DUST	7440-66-6	8.95
XYLENE (HAPS)	1330-20-7	5.51
TOLUENE (HAPS)	108-88-3	3.82
*METHYL ETHYL KETONE (HAPS)	78-93-3	3.15
ETHYL BENZENE (HAPS)	100-41-4	1.70

-PROP 65 (CARCINOGEN)

WARNING: this product contains a chemical known to the state of California to cause cancer.

Ingredient Name	CAS Number	Percent
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ETHYL BENZENE (HAPS)	100-41-4	1.70
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-PROP 65 (BOTH CARCINOGEN AND TERATOGEN)

WARNING: This product may contain a chemical known to the state of California to cause cancer and birth defects, or other reproductive harm.

Ingredient Name	CAS Number	Percent
TOLUENE (HAPS)	108-88-3	3.82

The information and recommendations contained herein are based on data believed to be correct. However, Dampney makes no warranty express or implied regarding the accuracy of these data or results to be obtained from the use thereof. Dampney assumes no responsibility for personal injury or property damaged caused by use of the material described herein. It is the responsibility of the purchaser or user to ensure that this material is properly and safely used.
