



MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ALPHA WS-809
MANUFACTURER'S NAME: ALPHA METALS, INC
ADDRESS: 600 ROUTE 440
JERSEY CITY, NJ 07304
TRANSPORT EMERGENCY #: CHEMTREC: 1-800-424-9300
BUSINESS PHONE: 1-201-434-6778

2. INGREDIENT AND EXPOSURE LIMIT INFORMATION

CHEMICAL NAME	CAS #	% W/W	OSHA PEL - TWA
LEAD	7439-92-1	25 - 35	0.05mg/m3 TWA
TIN	7440-31-5	50 - 60	2 mg/m3 TWA
MODIFIED ROSIN	65997-06-0	0 - 2	**
ETHOXYLATED AMINES	61790-85-0	0 - 5	NOT ESTABLISHED

** Sensitizer

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: MODERATE EYE IRRITANT.
COMBUSTIBLE AT ELEVATED TEMPERATURES

MODERATE GASTROINTESTINAL TRACT IRRITANT.
MODERATE RESPIRATORY TRACT IRRITANT.
CAUSES SKIN IRRITATION

HMIS RATING SYSTEM:
Health: 2 ; Flammability: 1 ; Reactivity: 0 ; Protection: B

NFPA RATING SYSTEM:

ROUTES OF ENTRY: INHALATION; INGESTION; SKIN CONTACT; EYE CONTACT;
TARGET ORGANS: BLOOD; DIGESTIVE TRACT; KIDNEYS; NERVOUS SYSTEM
MEDICAL CONDITIONS AGGRAVATED: NO MEDICAL CONDITIONS AFFECTED BY EXPOSURE.
DIGESTIVE TRACT DISEASE; KIDNEY DISEASE

IMMEDIATE (ACUTE) SYMPTOMS OVER-EXPOSURE BY ROUTE OF EXPOSURE:
INHALATION: CAN CAUSE MODERATE RESPIRATORY IRRITATION, DIZZINESS,
WEAKNESS, FATIGUE, NAUSEA AND HEADACHE. MAY CAUSE AN
ALLERGIC REACTION. MAY CAUSE RESPIRATORY TRACT
SENSITIZATION, CHARACTERIZED BY ASTHMA-LIKE SYMPTOMS.
EYES: CAN CAUSE MODERATE IRRITATION, TEARING AND REDDENING, BUT
NOT LIKELY TO PERMANENTLY INJURE EYE TISSUE.
SKIN CONTACT: CAN CAUSE MODERATE SKIN IRRITATION, DEFATTING, AND
DERMATITIS. NOT LIKELY TO CAUSE PERMANENT DAMAGE.



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3. HAZARDS IDENTIFICATION (Cont.)

SKIN ABSORPTION: NO ABSORPTION HAZARD IN NORMAL INDUSTRIAL USE.
INGESTION: IRRITATING TO MOUTH, THROAT, AND STOMACH. CAN CAUSE ABDOMINAL DISCOMFORT, NAUSEA, VOMITING AND DIARRHEA.

LONG TERM (CHRONIC) HEALTH EFFECTS:

CARCINOGENICITY: NONE OF THE SUBSTANCES IN THIS PRODUCT ARE CONFIRMED AS HUMAN CARCINOGENS AT THIS TIME BY NTP, IARC, OR OSHA. IARC CLASSIFIES LEAD AND SOME LEAD COMPOUNDS AS 2B CARCINOGENS TO HUMANS). AGCIH LISTS AS LEAD AS A "A3, (ANIMAL CARCINOGEN WITH UNKNOWN RELEVANCE TO HUMANS).

REPRODUCTION: NO DATA AVAILABLE TO INDICATE PRODUCT OR ANY COMPONENTS PRESENT AT GREATER THAN 0.1% MAY CAUSE BIRTH DEFECTS. WOMEN OF CHILD BEARING AGE SHOULD AVOID EXPOSURE TO LEAD AND ITS INORGANIC COMPOUNDS DUE TO POST-NATAL EFFECTS.

MUTACENICITY: NO DATA AVAILABLE TO INDICATE PRODUCT OR ANY COMPONENTS PRESENT AT GREATER THAN 0.1% IS MUTAGENIC OR GENOTOXIC.

4. FIRST AID MEASURES

SKIN EXPOSURE: WASH WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND LAUNDRY. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS OR PERSISTS.

EYE EXPOSURE: FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 20 MINUTES RETRACTING EYELIDS OFTEN. TILT THE HEAD TO PREVENT CHEMICAL FROM TRANSFERRING TO THE UNCONTAMINATED EYE. GET IMMEDIATE MEDICAL ATTENTION.

INHALATION: REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, HAVE A TRAINED INDIVIDUAL ADMINISTER OXYGEN. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION AND HAVE A TRAINED INDIVIDUAL ADMINISTER OXYGEN. GET MEDICAL ATTENTION IMMEDIATELY

INGESTION: DO NOT INDUCE VOMITING AND SEEK MEDICAL ATTENTION IMMEDIATELY. DRINK TWO GLASSES OF WATER OR MILK TO DILUTE. PROVIDE MEDICAL CARE PROVIDER WITH THIS MSDS.

NOTES TO DOCTOR: NO ADDITIONAL FIRST AID INFORMATION AVAILABLE

5. FIRE FIGHTING MEASURES

FLAMMABILITY SUMMARY: COMBUSTIBLE AT ELEVATED TEMPERATURES

FLASH POINT: 185 deg. C

AUTOIGNITION TEMPERATURE: N/E deg. C

EXPLOSIVE LIMITS % IN AIR: N/E /

EXTINGUISHING MEDIA: USE ALCOHOL RESISTANT FOAM, CARBON DIOXIDE, OR DRY CHEMICAL WHEN FIGHTING FIRES. WATER OR FOAM MAY CAUSE FROTHING IF LIQUID IS BURNING BUT IT STILL MAY BE A USEFUL EXTINGUISHING AGENT IF



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5. FIRE FIGHTING MEASURES (Cont.)

CAREFULLY APPLIED TO THE SURFACE OF THE FIRE. DO NOT DIRECT A STREAM OF WATER INTO THE HOT BURNING LIQUID.

FIRE AND EXPLOSION HAZARDS: MATERIAL MAY BE IGNITED ONLY IF PREHEATED TO TEMPERATURES ABOVE THE HIGH FLASH POINT, FOR EXAMPLE IN A FIRE.

EMPTY CONTAINERS THAT RETAIN PRODUCT RESIDUE (LIQUID, SOLID/SLUDGE, OR VAPOR) CAN BE DANGEROUS. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE CONTAINER TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. ANY OF THESE ACTIONS CAN POTENTIALLY CAUSE AN EXPLOSION THAT MAY LEAD TO INJURY OR DEATH. DUSTS AT SUFFICIENT CONCENTRATIONS CAN FORM EXPLOSIVE MIXTURES WITH AIR.

FIRE FIGHTING METHODS: WILL NOT BURN, NO SPECIAL INSTRUCTIONS AVAILABLE. USE METHODS APPROPRIATE FOR SURROUNDING MATERIALS.

HAZARDOUS COMBUSTION PRODUCTS: USE METHODS FOR THE SURROUNDING FIRE.

HAZARDOUS COMBUSTION PRODUCTS: CARBON MONOXIDE, CARBON DIOXIDE; METAL FUMES; TOXIC FUMES.

6. ACCIDENTAL RELEASE MEASURES

PRECAUTIONS AND EQUIPMENT: EXPOSURE TO THE SPILLED MATERIAL MAY BE IRRITATING OR HARMFUL. FOLLOW PERSONAL PROTECTIVE EQUIPMENT RECOMMENDATIONS FOUND IN SECTION VIII OF THIS MSDS.

METHODS FOR CLEAN-UP: WEAR COMPLETE AND PROPER PERSONAL PROTECTIVE EQUIPMENT FOLLOWING THE RECOMMENDATION OF SECTION VIII GATHER AND STORE IN A SEALED CONTAINER PENDING A WASTE DISPOSAL EVALUATION. DO NOT USE BROOM OR AIR CLEANING ETC.

7. HANDLING AND STORAGE

HANDLING MEASURES: HARMFUL OR IRRITATING MATERIAL. AVOID CONTACTING AND AVOID BREATHING THE MATERIAL. USE ONLY IN A WELL VENTILATED AREA.

AS WITH ALL CHEMICALS, GOOD INDUSTRIAL HYGIENE PRACTICES SHOULD BE FOLLOWED WHEN HANDLING THIS MATERIAL. AVOID CONTACT WITH MATERIAL, AVOID BREATHING DUSTS OR FUMES, USE ONLY IN A WELL VENTILATED AREA. WASH THOROUGHLY AFTER HANDLING; WASH HANDS BEFORE EATING; DO NOT GET IN EYES, ON SKIN AND CLOTHING; MINIMIZE DUST GENERATION AND



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7. HANDLING AND STORAGE (Cont.)

ACCUMULATION; REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE; GROUND AND BOND CONTAINERS WHEN TRANSFERRING MATERIAL; USE SPARK-PROOF TOOLS AND EXPLOSION-PROOF EQUIPMENT; AVOID CREATING DUSTS AS AN EXPLOSIVE DUST AIR MIXTURE CAN BE CREATED AT HIGH CONCENTRATIONS. IF DUSTS ARE CREATED, ENSURE NO SOURCES OF IGNITION ARE PRESENT. TAKE PRECAUTIONARY MEASURES TO PREVENT ELECTROSTATIC DISCHARGES.

STORAGE MEASURES: STORE IN A COOL DRY PLACE. ISOLATE FROM INCOMPATIBLE MATERIALS.

STORE IN A TIGHTLY CLOSED CONTAINER; KEEP AWAY FROM FOOD AND DRINKING WATER. STORE IN A COOL DRY PLACE; KEEP AWAY FROM HEAT, SPARKS, AND FLAME; KEEP UNDER A NITROGEN BLANKET

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

ENGINEERING MEASURES: USE LOCAL EXHAUST VENTILATION OR OTHER ENGINEERING CONTROLS TO MINIMIZE EXPOSURES AND MAINTAIN OPERATOR COMFORT. ENGINEERING CONTROLS MUST BE DESIGNED TO MEET THE OSHA CHEMICAL SPECIFIC STANDARD IN 29 CFR 1910. VENTILATION IS REQUIRED TO MAINTAIN OPERATOR EXPOSURE BELOW PUBLISHED EXPOSURE LIMITS. USE PROCESS ENCLOSURES, LOCAL EXHAUST VENTILATION, OR OTHER ENGINEERING CONTROLS TO CONTROL AIRBORNE LEVELS BELOW RECOMMENDED EXPOSURE LIMITS; EXPLOSION PROOF EXHAUST VENTILATION SHOULD BE USED. FACILITIES STORING OR USING THIS MATERIAL SHOULD BE EQUIPPED WITH AN EYEWASH AND SAFETY SHOWER.

RESPIRATORY PROTECTION: NO RESPIRATORY PROTECTION REQUIRED UNDER NORMAL CONDITIONS OF USE. FOLLOW A RESPIRATORY PROTECTION PROGRAM THAT MEETS 29 CFR 1910.134 AND ANSI Z88.2 REQUIREMENTS WHENEVER WORK PLACE CONDITIONS WARRANT THE USE OF A RESPIRATOR. WEAR A NIOSH APPROVED RESPIRATOR IF ANY EXPOSURE IS POSSIBLE.

EYE PROTECTION: WEAR CHEMICALLY RESISTANT SAFETY GLASSES WITH SIDE SHIELDS WHEN HANDLING THIS PRODUCT. DO NOT WEAR CONTACT LENSES.

SKIN PROTECTION: WEAR GOGGLES AND A FACE SHIELD NOT NORMALLY CONSIDERED A SKIN HAZARD. WHERE USE CAN RESULT IN SKIN CONTACT, PRACTICE GOOD PERSONAL HYGIENE. WASH HANDS AND OTHER EXPOSED AREAS WITH MILD SOAP AND WATER BEFORE EATING, DRINKING, AND WHEN LEAVING WORK. WHERE CONTACT IS LIKELY, WEAR CHEMICAL RESISTANT



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8. EXPOSURE CONTROLS AND PERSONAL PROTECTION (Cont.)

GLOVES, A CHEMICAL SUIT, RUBBER BOOTS, AND CHEMICAL SAFETY GOGGLES PLUS A FACE SHIELD
NO INFORMATION AVAILABLE

GLOVES:

CONTROL PARAMETERS:

CHEMICAL NAME
MODIFIED ROSIN

-----ACGIH EXPOSURE LIMITS-----

TLV-TWA STEL CEILING

Sensitizer; reduce exposure to as low as possible

LEAD
TIN

0.05 mg/m3 TWA
metal: 2 mg/m3 TWA

9. PHYSICAL AND CHEMICAL PROPERTIES

COLOR: WHITE
COLOR: GREY
ODOR: NONE
pH: N/A
SPECIFIC GRAVITY: 7.0083
SOLUBILITY IN WATER: NOT DETERMINED
VAPOR PRESSURE, mm Hg at 20C:
MELTING POINT or RANGE (C): 327
BOILING POINT (C): 1744

10. STABILITY AND REACTIVITY

DECOMPOSITION PRODUCTS: METAL FUMES; TOXIC FUMES.
INCOMPATIBLE MATERIALS: STRONG OXIDIZING AGENTS; PEROXIDES; METALS;
STRONG ACIDS; STRONG REDUCING AGENTS; ACIDS;
CHLORINE; MOISTURE; STRONG ALKALIES
CONDITIONS TO AVOID: NONE KNOWN
CONTAMINATION; CONTACT WITH AIR. CONTACT WITH WATER

11. TOXICOLOGICAL INFORMATION

COMPONENT TOXICOLOGY DATA (NIOSH)
CHEMICAL NAME LD50/LC50



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12. ECOLOGICAL INFORMATION

OVERVIEW: THIS MATERIAL IS NOT EXPECTED TO BE HARMFUL TO THE ECOLOGY.
MOBILITY: NO DATA
PERSISTENCE: NO DATA
DEGRADABILITY: NO DATA

13. DISPOSAL CONSIDERATIONS

WASTE DESCRIPTION: SPENT OR DISCARDED MATERIAL IS PROBABLY A HAZARDOUS WASTE.
DISPOSAL METHODS: DISPOSE OF IN A LANDFILL. DISPOSAL IS NOT LIKELY TO BE REGULATED.

14. TRANSPORT INFORMATION

SHIPPING BASIC DESCRIPTION: DOT & IATA: NOT RESTRICTED

15. REGULATORY INFORMATION

TSCA STATUS: ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY OF EXISTING CHEMICAL SUBSTANCES.

REGULATED CHEMICALS:

CHEMICAL NAME		REGULATION
LEAD	7439-92-1	SARA 313
LEAD	7439-92-1	CA PROP 65

CERCLA REGULATED CHEMICALS AND REPORTABLE QUANTITY (RQ):

LEAD METAL 7439-92-1 final RQ = 10 pounds (4.54 kg) of releases of this hazardous s required if the diameter of the the solid metal released is equ exceeds 0.004 inches)

CALIFORNIA SCAQMD RULE 443.1 VOCS:

WHMIS RATINGS: D2A(OTHER TOXIC EFFECTS), D2B(TOXIC MATERIAL, SKIN & EYE IRRITANT)



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16. OTHER INFORMATION

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Additionally, Alpha Metals, Inc. assumes no responsibility for injury to the vendee or third persons proximately caused by the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.