



MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ALPHA OM338 & OM338T - SAC305, 357, 359, 387, 396, 405

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
TIN	7440-31-5	80 - 85	2.0 mg/m3
SILVER	7440-22-4	1 - 5	0.01 mg/m3
COPPER	7440-50-8	0.2 - 1	0.2 mg/m3
MODIFIED ROSIN	Proprietary	1 - 5	**

**SENSITIZER

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: MODERATE EYE IRRITANT.
WILL NOT BURN
TOXIC BY INHALATION.
MODERATE GASTROINTESTINAL TRACT IRRITANT.
MODERATE RESPIRATORY TRACT IRRITANT.
CAUSES SKIN IRRITATION

HMIS RATING SYSTEM:
Health: 1 ; Flammability: 0 ; Reactivity: 0 ; Protection: C

NFPA RATING SYSTEM:
Health: 2 ; Flammability: 0 ; Reactivity: 0

ROUTES OF ENTRY: INHALATION; INGESTION; SKIN CONTACT; EYE CONTACT;
ABSORPTION;

TARGET ORGANS: BLOOD; DIGESTIVE TRACT; KIDNEYS; NERVOUS SYSTEM; EYES;
SKIN.

MEDICAL CONDITIONS AGGRAVATED: DIGESTIVE TRACT DISEASE; KIDNEY DISEASE
EYE DISEASE. SKIN DISEASE INCLUDING ECZEMA
AND SENSITIZATION.

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



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3. HAZARDS IDENTIFICATION (Cont.)

SKIN CONTACT: NOT LIKELY TO PERMANENTLY INJURE EYE TISSUE.
CAN CAUSE SLIGHT IRRITATION.

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 HAVE BEEN SHOWN TO CAUSE CANCER IN
LONG TERM ANIMAL STUDIES. NOT A CARCINOGEN ACCORDING TO NTP,
IARC, OR OSHA.

REPRODUCTION: NO DATA AVAILABLE TO INDICATE PRODUCT OR ANY COMPONENTS
PRESENT AT GREATER THAN 0.1% MAY CAUSE BIRTH DEFECTS.

MUTAGENICITY: 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: SEEK MEDICAL ATTENTION IMMEDIATELY.

NOTES TO DOCTOR: NO ADDITIONAL FIRST AID INFORMATION AVAILABLE

5. FIRE FIGHTING MEASURES

FLAMMABILITY SUMMARY: NOT COMBUSTIBLE

FLASH POINT: N/A

AUTOIGNITION TEMPERATURE: N/E

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 USEFUL EXTINGUISHING AGENT
IF CAREFULLY APPLIED TO THE SURFACE OF THE
FIRE. DO NOT DIRECT A STREAM OF WATER INTO
MOLTEN MATERIAL.

FIRE AND EXPLOSION METHODS: MATERIAL MAY BE IGNITED ONLY IF PREHEATED TO
TEMPERATURES ABOVE THE HIGH FLASH POINT, FOR



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5. FIRE FIGHTING MEASURES (Cont.)

EXAMPLE IN A FIRE. DUST 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: 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 ACCUMULATION; AVOID CREATING DUSTS AS AN EXPLOSIVE HIGH CONCENTRATIONS.

STORAGE MEASURES: NO SPECIAL REQUIREMENTS
KEEP AWAY FROM FOOD AND DRINKING WATER. STORE IN A COOL DRY PLACE.

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



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8. EXPOSURE CONTROLS AND PERSONAL PROTECTION (Cont.)

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: RESPIRATORY PROTECTION MAY BE REQUIRED TO AVOID OVEREXPOSURE WHEN HANDLING THIS PRODUCT. GENERAL OR LOCAL EXHAUST VENTILATION IS THE PREFERRED MEANS OF PROTECTION. USE A RESPIRATOR IF GENERAL ROOM VENTILATION IS NOT AVAILABLE OR SUFFICIENT TO ELIMINATE SYMPTOMS.

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 WEAR PROTECTIVE GLOVES. INSPECT GLOVES FOR CHEMICAL BREAK-THROUGH AND REPLACE AT REGULAR INTERVALS. CLEAN PROTECTIVE EQUIPMENT REGULARLY. WASH HANDS AND OTHER EXPOSED AREAS WITH MILD SOAP AND WATER BEFORE EATING, DRINKING, AND WHEN LEAVING WORK

CONTROL PARAMETERS:	-----ACGIH EXPOSURE LIMITS-----		
CHEMICAL NAME	TLV-TWA	STEL	CEILING
ROSINS	Sensitizer;keep exposure as low as possible		
TIN	2 mg/m3 TWA		
SILVER	0.1 mg/m3 TWA		
COPPER	0.2 mg/m3 TWA		

9. PHYSICAL AND CHEMICAL PROPERTIES

COLOR: GREY
ODOR: NONE
pH: N/A



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10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

COMPONENT TOXICOLOGY DATA (NIOSH)

CHEMICAL NAME	LD50/LC50
Copper	LD50/LC50: No data available
Silver	LD50/LC50: No data available
Tin	LD50/LC50: No data available

INHALATION AND INGESTION: INGESTION OF DUST OR FUME MUST BE AVOIDED.

TIN: TIN IS NOT REGARDED AS TOXIC BUT EXCESSIVE EXPOSURE CAN CAUSE FEVER, NAUSEA, STOMACH CRAMPS OR DIARRHEA. EXPECTED TO BE SIGNIFICANT IN COMPARISON WITH OTHER METALS PRESENT. DUST OR FUME MAY CAUSE IRRITATION OF THE SKIN AND MUCOUS MEMBRANES AND MAY RESULT IN A BENIGN PNEUMOCONIOSIS (STANNOSIS).

COPPER: COPPER DUST AND FUME AFFECT THE RESPIRATORY SYSTEM, LUNGS SKIN, LIVER AND EYES.

SILVER: SILVER MAY CAUSE DISCOLORATION OF EYES AND SKIN (ARGYRIA)

12. ECOLOGICAL INFORMATION

OVERVIEW: SLIGHT ECOLOGICAL HAZARD. IN HIGH CONCENTRATIONS, THIS PRODUCT MAY BE DANGEROUS TO PLANTS AND/OR WILDLIFE.

13. DISPOSAL CONSIDERATIONS

WASTE DESCRIPTION:

The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

DISPOSAL METHODS:



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13. DISPOSAL CONSIDERATIONS (Cont.)

Disposal should be in accordance with applicable regional, national and local laws and regulations.

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
SILVER	7440-22-4	SARA 313
COPPER	7440-50-8	SARA 313

CERCLA REGULATED CHEMICALS AND REPORTABLE QUANTITY (RQ):

CHEMICAL NAME	CAS #	REPORTABLE QUANTITY
SILVER	7440-22-4	5000 LBS
COPPER	7440-50-8	1000 LBS

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.