



3555 West 123rd Street - Alsip, IL 60803

04/06/22

SAFETY DATA SHEET

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SECTION 1. IDENTIFICATION

PRODUCT INFORMATION

PRODUCT NUMBER : SZFA-28-002
PRODUCT NAME : ALUMINUM ZINC MIR AER+++
CHEMICAL NAME : ORGANIC COATING
CHEMICAL FAMILY : PAINT

MANUFACTURER'S NAME: TMS Manufacturing - W C Richards Company
3555 W 123rd Street
ALSIP, IL 60803

INFORMATION TELEPHONE

US : 708-385-6633

EMERGENCY TELEPHONE

US (CHEMTREC) : 800-424-9300
CHEMTREC INT'L : 011-703-527-3887

SECTION 2. HAZARD(S) IDENTIFICATION

GHS CLASSIFICATION:

Flammable Liquid - Category 2
Skin Irritation - Category 2
Eye Damage/Irritation - Category 2A
Aspiration Hazard - Category 1
Specific target organ toxicity RE - Category 1
Specific target organ toxicity SE - Category 3

LABEL ELEMENTS:



SIGNAL WORD: DANGER

HAZARD STATEMENT:

H226: Flammable liquid and vapor.
H302: Harmful if swallowed.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H333: May be harmful if inhaled.
H335: May cause respiratory irritation.
H336: May cause drowsiness or dizziness.
H373: May cause damage to organs through prolonged or repeated exposure.

SECTION 2. HAZARD(S) IDENTIFICATION

PRECAUTIONARY STATEMENTS:

P210:Keep away from heat, sparks, open flames and other ignition source.
P223:Do not allow contact with water, hydrogen gas may form.
P240:Ground/bond container and receiving equipment.
P271:Use only outdoors or in a well-ventilated area.
P280:Wear protective gloves/protective clothing/eye protection/face protection.

PREVENTION : Keep away from heat and open flame.Use with adequate ventilation.
RESPONSE : Wash thoroughly after handling.
DISPOSAL : Dispose of in accordance with all local, reagonal, national, and international regulations.

SPECIAL PACKAGEING REQUIREMENTS
Not applicable

OTHER HAZARDS

None known

SECTION 3. COMPOSITION, INFORMATION ON INGREDIENTS

M I X T U R E

INGREDIENT DESCRIPTION	CAS NUMBER	PERCENT BY WEIGHT
ZINC DUST	7440-66-6	35.8 - 44.5
TOLUENE	108-88-3	15.9 - 19.7
METHYL BENZENE		
STODDARD SOLVENT	64742-47-8	9.5 - 11.8
ALIPHATIC HYDROCARBON	64742-49-0	8.7 - 10.8
ALUMINUM PASTE	MIXTURE	4.3 - 5.3
N-BUTYL ACETATE	123-86-4	0.9 - 1.5
ACETIC ACID BUTYL ESTER		
XYLENE	1330-20-7	0.9 - 1.5
ETHYL BENZENE	100-41-4	0.01 - 0.02

SEE SECTION 8 FOR EXPOSURE LIMITS

SECTION 4. FIRST AID MEASURES

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION Move to fresh air. If breathing stops, apply artificial respiration and seek immediate medical attention.
EYE CONTACT Flush with large quantities of water for 15 minutes.
SKIN CONTACT Wash thoroughly with soap and water and see a doctor.
INGESTION Do not induce vomiting. Contact physician or poison control center immediately.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND CHRONIC

SECTION 4. FIRST AID MEASURES**RECOMMENDATIONS FOR IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED****SECTION 5. FIRE-FIGHTING MEASURES**

FLAMMABILITY CLASSIFICATION: UN1263, PAINT, 3, PGII

FLASH POINT: 45 (deg F) LEL: 0.70 UEL: 7.60

EXTINGUISHING MEDIA: Foam, CO2, Dry Chemical. **DO NOT USE WATER!**

UNUSUAL FIRE AND EXPLOSION DATA:

Do not mix with acid or caustic materials. Keep away from Heat, Sparks, Open Flame, Electrical Equipment, etc. DO NOT USE WATER. Hydrogen Gas may form producing an explosive environment.

SPECIAL FIREFIGHTING PROCEDURES:

Exclude air from fire. Respiratory equipment should be worn to avoid inhalation of vapors. DO NOT USE WATER!

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

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

Remove all sources of ignition (heat, sparks, open flame). Avoid breathing vapors. Ventilate area. Contain and clean up spills with non sparking tools, rags, etc. Use inert absorbent materials on small spills or residuals of large spills.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state, and federal regulations.

SECTION 7. HANDLING AND STORAGE**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:**

Use non-sparking tools when handling this material. Avoid hot surfaces. Use in cool, well-ventilated areas. Keep containers closed when not in use. Keep away from excessive heat and open flames. Avoid prolonged or repeated contact with the skin. Normally accepted grounding techniques are to be employed during all phases of handling and application.

OTHER PRECAUTIONS:

No Smoking in areas where this material is used. Plastic Utensils should not be used. Do not weld or flame cut on an "empty drum". Keep containers closed and upright when not in use. If the painted surface is to be welded, use a fan across the work area to prevent fumes from rising to the welder's face. Pump air into welder's hood to provide

SECTION 7. HANDLING AND STORAGE

positive air pressure to prevent fumes from getting to welder.
 Maintain good personal hygiene and plant housekeeping.

This coating may contain materials classified as nuisance particulates
 which may be present at hazardous levels only during sanding or abrading of the dried film.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

CONTROL PARAMETERS

INGREDIENT DESCRIPTION	CAS NUMBER	EXPOSURE LIMITS
TOLUENE	108-88-3	ACGIH: 20.00 ppm TWA OSHA: 200.00 ppm TWA
STODDARD SOLVENT	64742-47-8	ACGIH-TWA: 100.00 ppm OSHA-TWA: 500.00 ppm
ALIPHATIC HYDROCARBON	64742-49-0	ACGIH: 5.00 mg/m3 TWA OSHA: 5.00 mg/m3 TWA
N-BUTYL ACETATE	123-86-4	ACGIH: 150.00 ppm OSHA: 150.00 ppm
XYLENE	1330-20-7	ACGIH-TWA: 100.00 ppm OSHA: 100.00 ppm
ETHYL BENZENE	100-41-4	ACGIH: 100 ppm OSHA: 100 ppm

EXPOSURE CONTROLS

RESPIRATORY PROTECTION:

Provide NIOSH/MSHA approved organic vapor canister respirators where oxygen content is adequate and where airborne mists and vapor concentrations are above the time-weighted threshold limit values. When using in poorly ventilated and confined spaces, use a fresh air supply respirator or a self-contained breathing apparatus.

VENTILATION:

Mechanical ventilation or local exhaust must be used to keep vapor concentrations below TLV. All ventilation equipment must be explosion proof.

PROTECTIVE GLOVES:

Impermeable chemical handling gloves for skin protection.

EYE PROTECTION:

Use chemical safety glasses with side shields or goggles or faceshields.

OTHER PROTECTIVE EQUIPMENT:

Use impermeable aprons and protective clothing whenever possible to prevent skin contact. The use of headcaps wherever possible is recommended.





SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT	: 232 (deg F)	% VOLATILE-VOLUME:	70.370
VAPOR DENSITY	: HEAVIER THAN AIR	% NVM-WEIGHT	: 58.862
EVAPORATION RATE:	FASTER THAN BU AC	% NVM-VOLUME	: 29.630
WEIGHT/GALLON	: 11.693	VOC (lb/gal)	: 4.779
		pH:	N/A

SECTION 10. STABILITY AND REACTIVITY

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal Decomposition may yield Carbon Monoxide, Carbon Dioxide, and other hazardous products.

CONDITIONS TO AVOID:

Heat, Sparks, Open Flame, Electrical Equipment, Fire, Acids, Caustics, etc. DO NOT MIX WITH WATER OR USE WATER FOR FIRE.

INCOMPATIBILITY (MATERIALS TO AVOID):

Acids, Alkaline Materials and Oxidizers. DO NOT USE WATER. Hydrogen gas may form.

SECTION 11. TOXICOLOGICAL INFORMATION

INGREDIENT DESCRIPTION	CAS NUMBER	TOXICOLOGICAL DATA
ZINC DUST	7440-66-6	LD50: N.E. LC50: N.E.
TOLUENE	108-88-3	LD50: 5580 mg/kg LC50: >20 mg/L LD50 DERMAL 12267 mg/kg 300 ppm PEL-CEILING
STODDARD SOLVENT	64742-47-8	LD50: >5000 mg/kg RAT LC50: >20 mg/L LD50 Derm >2000 mg/kg Rat
ALIPHATIC HYDROCARBON	64742-49-0	LD50: LD50 >5,000 mg/kg LC50: NO DATA LD50 DERMAL >2,000 mg/kg
N-BUTYL ACETATE	123-86-4	LD50: 12,789 mg/kg bw Rat LC50: NO DATA LD50 DERMAL 14,112 mg/kg bw rABBIT
XYLENE	1330-20-7	LD50: LD50 4300 mg/kg RAT LC50: 4544 mg/l Rat REL 100 ppm NIOSH LD50 DERMAL 14,100 mg/kg Rabbit

SECTION 11. TOXICOLOGICAL INFORMATION

ETHYL BENZENE	100-41-4	LC50: 4000 ppm 4h Rat LD50: 3500 mg/kg Rat IDLH : 2000 ppm OSHA STEL: 125 ppm IARC: 2B
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TARGET ORGANS:

eyes, skin, central nervous system, liver, kidney, respiratory system, gastrointestinal tract, upper respiratory system, respiratory irritation, blood

ROUTES OF ENTRY AND ACUTE EFFECTS OF EXPOSURE:

CONTACT	Direct contact with this product may cause: eye irritation, dermatitis, dry skin, skin irritation, skin cracking
INHALATION	If inhaled, may cause: euphoria, headache, collapse, pupil dilation, central nervous system depression, respiratory irritation, mucous membrane irritation, narcosis, central nervous system effects, drowsiness, toxic effects
INGESTION	If swallowed, may cause: liver damage, kidney damage, pneumonitis, intestinal tract irritation, nausea, pulmonary edema, central nervous system depression, vomiting, blood, pancreas, heart, hemoglobinuria
ABSORPTION	If absorbed, may cause: skin irritation, systemic toxicity

PRIMARY ROUTES OF ENTRY: Dermal, Inhalation, Ingestion, Absorption.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE:
Anesthesia, respiratory tract irritation, dermatitis, nausea, vomiting.

CHRONIC EFFECTS OF OVEREXPOSURE:
liver abnormalities, kidney damage, lung damage, cardiac abnormalities,
liver damage, central nervous system effects, dermatitis

CARCINOGENICITY:

This product contains the following ingredient(s) at levels greater than or equal to 0.1% that have been identified as probable, possible, or confirmed human carcinogens by IARC, NTP, or OSHA

CAS NUMBER	IARC	NTP	OSHA	AGENT
100-41-4	2B	N	N	Ethylbenzene
71-43-2	1	K	N	Benzene

SECTION 12. ECOLOGICAL INFORMATION

Information based on available studies.

ZINC

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
LC50 fish, 96 hr, 0.482 mg/l *Oncorhynchus tshawytscha*
EC50 crustacea, 48hr, 0.068 mg/l, *daphnia magna*
ErC50 algae, 72 hr, 0.106 mg/l, *Pseudokirchneriella subcapitata*

SECTION 13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:
Dispose of in accordance with local, state, provincial, and federal regulations.

SECTION 14. TRANSPORT INFORMATION

UN PROPER SHIPPING NAME

UN1263, PAINT, 3, PGII



SECTION 15. REGULATORY INFORMATION

SECTION 313 SUPPLIER NOTIFICATION

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:

CHEMICAL NAME	CAS NUMBER	WEIGHT PERCENT
ZINC DUST	7440-66-6	40.51
TOLUENE	108-88-3	17.96
XYLENE	1330-20-7	1.22

SECTION 15. REGULATORY INFORMATION

HAZARDOUS AIR POLLUTANTS

This product contains the following chemical(s) which are on the list of hazardous air pollutants under Section 112(b) of the Clean Air Act.

CHEMICAL NAME	CAS NUMBER	WEIGHT PERCENT
TOLUENE	108-88-3	17.96
XYLENE	1330-20-7	1.22

SECTION 15. REGULATORY INFORMATION

CALIFORNIA PROPOSITION 65



WARNING:

This product can expose you to chemical(s) which is known to the state of California to cause cancer. For more information, go to www.P65.warnings.ca.gov

CHEMICAL NAME
ETHYL BENZENE

CAS NUMBER
100-41-4

WARNING:

This product can expose you to chemical(s) which is known to the state of California to cause birth defects or other reproductive harm. For more information, go to www.P65.warnings.ca.gov

CHEMICAL NAME
TOLUENE

CAS NUMBER
108-88-3

SECTION 16. OTHER INFORMATION

HMIS RATING: HFR PP
231 J

ISSUE DATE
04/06/22

PRINT DATE
04/06/22

DISCLAIMER OF LIABILITY

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