

ZOLATONE[®]

AUTOMOTIVE • INDUSTRIAL • MARINE

Material Safety Data Sheet

HMIS Rating:

Health: 2 Flammability: 2 Reactivity: 1

Section I - Chemical Product and Company Identification

Product Name: ZO-Epoxy Primer White
Product Code: 9271-0001
Product Use Description: Coating
Distributed by: Zolatone AIM
 Division of Advanced Refinish Technologies
 850 Ladd Road, Building E
 Walled Lake, Michigan 48390

Emergency Telephone: (Chemtrec) (800) 424-9300
Information Telephone: (800) 810-2785
Preparer: MSDS Coordinator

Section II - Composition Information on Ingredients

Number	Chemical Name	CAS Number	% by Weight	Exposure Limit	Vapor Pressure (mm Hg @ 77° F)
1	isobutyl alcohol	78-83-1	<1	ACGIH TLV TWA = 50 ppm OSHA PEL TWA = 50 ppm	8.8
2	n-butanol	71-36-3	<1	ACGIH TLV = 152 mg/m ³ ACGIH STEL = 50 ppm OSHA PEL = 300 mg/m ³ OSHA STEL = 100 ppm	4.4

Number	Chemical Name	CAS Number	% by Weight	Exposure Limit	Vapor Pressure (mm Hg @ 77° F)
3	isopropyl alcohol	67-63-0	5 - 20	ACGIH TLV = 400 ppm ACGIH STEL = 500 ppm OSHA PEL = 400 ppm OSHA STEL = 500 ppm	31.2
4	isobutyl acetate	110-19-0	5 - 20	ACGIH TLV = 713 mg/m ³ ACGIH STEL = 150 ppm OSHA PEL = 713 mg/m ³ OSHA STEL = 150 ppm	12.5
5	propylene glycol monomethyl ether acetate	108-65-6	5 - 20	ACGIH TLV = N/E ACGIH STEL = N/E OSHA PEL = N/E OSHA STEL = N/E	3.7
6	ethyl 3-ethoxypropionate	108-65-6	5 - 20	ACGIH TLV = N/E ACGIH STEL = N/E OSHA PEL = N/E OSHA STEL = N/E	0.0891

Number	Chemical Name	CAS Number	% by Weight	Exposure Limit	Vapor Pressure (mm Hg @ 77° F)
7	methyl ethyl ketone	78-93-3	5 -20	ACGIH TLV = TWA: 200 ppm ACGIH STEL = 300 ppm OSHA PEL = TWA: 200 ppm OSHA STEL = 300 ppm	78
8	toluene	108-88-3	1 - 5	ACGIH TLV = TWA: 50 ppm ACGIH STEL = 150 ppm OSHA PEL = TWA: 300 ppm OSHA STEL = 200 ppm	38
9	xylene	1330-20-7	1 - 5	ACGIH TLV = 150 ppm ACGIH STEL = 150 ppm OSHA PEL = 100 ppm OSHA STEL = 150 ppm	9.5
10	ethyl benzene	100-41-4	1 - 5	ACGIH TLV = 100 ppm ACGIH STEL = 125 ppm OSHA PEL = 100 ppm OSHA STEL = 125 ppm	1.333

This substance is classified as a hazardous air pollutant.

Section III - Hazards Identification

ROUTES OF EXPOSURE

EYE CONTACT:

Causes eye irritation. Redness, itching, burning sensation and visual disturbances may indicate excessive eye contact.

SKIN CONTACT:

May cause slight skin irritation. Dryness, itching, cracking, burning, redness, and swelling are conditions associated with excessive skin contact.

SKIN ABSORPTION:

Skin absorption not expected to occur.

INHALATION:

Vapor and/or spray may be harmful if inhaled.

INGESTION:

Harmful if swallowed.

SIGNS & SYMPTOMS OF OVEREXPOSURE:

Dryness, itching, cracking, burning, redness, and swelling are conditions associated with excessive skin contact.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Not applicable.

CHRONIC OVEREXPOSURE EFFECTS:

Avoid long-term and repeated contact. Repeated exposure to vapors above recommended exposure limits (see Section 8) may cause irritation of the respiratory system and permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. The effects of long-term, low level exposures to this product have not been determined. Safe handling of this material on a long-term basis should emphasize the prevention of all contact with this material to avoid any effects from repetitive acute exposures. See Section 11, of this MSDS for a detailed list of chronic health effects information available on individual ingredients in this product.

Section IV - First Aid Measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a **POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN** immediately; have Material Safety Data Sheet information available.

EYE CONTACT:

Remove contact lens and pour a gentle stream of warm water through the affected eye for at least 15 minutes. If irritation persists, contact a poison control center, emergency room, or physician as further treatment may be necessary.

SKIN CONTACT:

Run a gentle stream of water over the affected area for 15 minutes. A mild soap may be used if available. If any symptoms persist, contact poison control center, emergency room, or physician as further treatment may be necessary.

INHALATION:

Remove from area to fresh air. If symptomatic, contact a poison control center, emergency room or physician for treatment information.

INGESTION:

Gently wipe or rinse the inside of the mouth with water. Sips of water may be given if person is fully conscious. Never give anything by mouth to an unconscious or convulsing person. Do not induce vomiting. Contact a poison control center, emergency room or physician right away as further treatment will be necessary.

Section V - Fire Fighting Measures

Fire and Explosive Properties of the Product:

Flash point: Not determined

Explosion Limits:

Lower (LEL): 1.0

Upper (UEL): 12.1

Extinguishing Media:

Use National Fire Protection Association (NFPA) Class B extinguishers (carbon dioxide, dry chemical, or universal aqueous film forming foam) designed to extinguish NFPA Class IB flammable liquid fires. Water spray may be ineffective. Water spray may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Section V - Fire Fighting Measures

Protection of Firefighters:

Fire-fighters should wear self-contained breathing apparatus and full protective clothing.

Unusual Fire and Explosion Hazards:

Keep this product away from heat, sparks, flame, and other sources of ignition (i.e. pilot lights, electric motors, static electricity). Invisible vapors can travel to a source of ignition and flash back. Do not smoke while using this product. Keep containers tightly closed when not in use. Closed containers may explode when overheated. Do not apply to hot surfaces. Toxic gases may form when this product comes in contact with extreme heat. May produce hazardous decomposition products when exposed to extreme heat. Extreme heat includes, but not limited to, flame cutting, brazing, and welding.

Section VI - Accidental Release Measures

Steps to be taken if Material is released or spilled:

Provide maximum ventilation. Only personnel equipped with proper respiratory, skin, and eye protection should be permitted in the area. Remove all sources of ignition. Take up spilled material with sand, vermiculite, or other noncombustible absorbent material and place in clean, empty containers for disposal. Only the spilled material and the absorbent should be placed in this container.

Section VII - Handling and Storage

Precautions to be taken during Handling and Storage:

Vapors may collect in low areas. If this material is part of a multiple component system, read the Material Safety Data Sheet(s) for the other component or components before blending as the resulting material may have the hazards of all of its parts. Containers should be grounded when pouring. Avoid free fall of liquids in excess of a few inches.

Storage:

Do not store above 120° F (48° C). Store large quantities in buildings designed and protected for storage of NFPA Class IB flammable liquids.

Section VIII - Exposure Controls, Personal Protection

Engineering Controls:

Provide general dilution or local exhaust ventilation in volume and pattern to keep the concentration of ingredients listed in Section 8 below the lowest suggested exposure limits, the LEL below the stated limit, and to remove decomposition products during welding or flame cutting.

Personal Protective equipment eyes:

Wear chemical-type splash goggles when possibility exists for eye contact due to splashing or spraying liquid, airborne particles, or vapors.

Skin/Gloves:

Wear protective clothing to prevent skin contact. Apron and gloves should be constructed of: neoprene rubber or butyl rubber. No specific permeation/degradation testing have been done on protective clothing for this product. Recommendations for skin protection are based on infrequent contact with this product. For frequent contact or total immersion, contact a manufacturer of protective clothing for appropriate chemical impervious equipment. Clean contaminated clothing and shoes.

Respirator:

Overexposure to vapors may be prevented by ensuring proper ventilation controls, vapor exhaust or fresh air entry. A NIOSH-approved air purifying respirator with the appropriate chemical cartridges or a positive pressure, air-supplied respirator may also reduce exposure. Read the respirator manufacturer's instructions and literature carefully to determine the type of airborne contaminants against which the respirator is effective, its limitations, and how it is to be properly fitted and used. Provide general dilution or local exhaust ventilation in volume and pattern to keep the concentration of ingredients listed in Section 2 below the lowest suggested exposure limits, the LEL below the stated limit, and to remove decomposition products during welding or flame cutting.

General Hygiene-Established Exposure Limits:

If Threshold Limit Values (TLV's) have been established by ACGIH and OSHA they will be listed below. These limits are intended for use in the practice of industrial hygiene as guidelines of recommendations in the control of potential workplace health hazards. These limits are not a relative index of toxicity and should not be used by anyone without industrial hygiene training.

Section IX - Physical and Chemical Properties

Vapor Pressure:	N/A
Vapor Density:	Heavier than air
Boiling Range:	-17° - 170° C (0° - 338° F)
Specific Gravity:	1.330
Weight per gallon (US):	11.131 pounds
Regulatory VOC (Calculated):	4.48 lbs./gal. (537 g./l.)
Actual VOC (Calculated):	4.48 lbs./gal. (537 g./l.)
Percent Volatile by Weight:	40.2
Percent Volatile by Volume:	61.7
Evaporation Rate:	Same as ether
Viscosity:	N/A

Section X - Stability and Reactivity

Stability:

This product is normally stable and will not undergo hazardous reactions.

Conditions to avoid:

None known.

Incompatible Materials:

Avoid contact with strong alkalies, strong mineral acids, or strong oxidizing agents.

Hazardous Polymerization:

None known.

Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide, oxides of sulfur, oxides of barium, lower molecular weight polymer fractions.

Section X - Stability and Reactivity

Chronic Toxicity:**Target Organs:**

Spleen-NoneKnown-Mutagen-Carcinogen-Kidney-Liver- Embryotoxin-Teratogen-Brain-Central nervous system-Lung

Mutagenicity:

This has not been tested for this product.

Reproductive:

This has not been tested for this product.

Section XI - Toxicological Information

CAS Number	Chemical Name	Dosage Limit
78-83-1	isobutyl alcohol	LC50 = 1430 ppm (rat - 4 hours) LD50 = N/E (rat)
71-36-3	n-butanol	LC50 = 8000 ppm (rat - 4 hours) LD50 = 0.79 - 4.36 g./kg. (rat)
67-63-0	isopropyl alcohol	LC50 = N/E LD50 = 5045 mg./kg. (rat)
110-19-0	isobutyl acetate	LC50 = 190 ppm (rat - 4 hours) LD50 = N/E (rat)
108-65-6	propylene glycol monomethyl ether acetate	LC50 = N/E LD50 = 8532 mg./kg. (rat)
763-69-9	ethyl 3-ethoxypropionate	LC50 = 4076 mg./kg. (rat - 4 hours) LD50 = 5000 mg./kg. (rat)
78-93-3	methyl ethyl ketone	LC50 = N/E LD50 = N/E
108-88-3	toluene	LC50 = N/E LD50 = N/E
1330-20-7	xylene	LC50 = 5000 ppm (rat - 4 hours) LD50 = 4300 mg./kg. (rat)
100-41-4	ethyl benzene	LC50 = N/E LD50 = 3500 mg./kg. (rat)

Section XII - Ecological Information

POTENTIAL ENVIRONMENTAL EFFECTS:**ECOTOXICITY:**

No Information Available

ENVIRONMENTAL FATE:

MOBILITY: No Information Available

BIODEGRADATION: No Information Available

BIOACCUMULATION: No Information Available

PHYSICAL/CHEMICAL:

HYDROLYSIS: No Information Available

PHOTOLYSIS: No Information Available

Section XIII - Disposal Considerations

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State, and Local regulations regarding pollution. Provide maximum ventilation, only personnel equipped with proper respiratory and skin and eye protection should be permitted in the area. Take up spilled material with sawdust, vermiculite, or other absorbent material and place in containers for disposal. Waste material must be disposed of in accordance with federal, state, provincial and local environmental control regulations. Empty containers should be recycled by an appropriately licensed reconditioner/salvager or disposed of through a permitted waste management facility. Additional disposal information is contained on the Environmental Data Sheet for this product.

Section XIV - Transport Information

US Ground (DOT) LIMITED QUANTITY**Proper Shipping Name:** Consumer Commodity**NOS Technical Name:** N/A**Hazard Class:** ORM-D**UN Number:** N/A**Proper Shipping Name:** Paint Related Material**Hazard Class:** Flammable 3**UN Number:** UN1263**Packing Group:** II**ERG:** 128

Section XV - Regulatory Information

U.S. Regulations:**SARA 313 Information:**

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

Chemical Name	CAS Number	Percent by Weight
methyl ethyl ketone	78-93-3	7.3
toluene	108-88-3	1.0
xylene	1330-20-7	3.5
ethyl benzene	100-41-4	1.5

Federal Regulations:**Toxic Substance Control Act:**

The product and/or all of its components are listed on the U.S. TSCA Inventory or is otherwise exempt from TSCA Inventory reporting requirements.

Section XV - Regulatory Information

State Regulations:**State of California:**

This product contains chemical(s) which are listed on California's proposition 65 list. If the product is to be sold or used in California a clear and reasonable warning must be provided such as:

Warning! This product contains a chemical or chemicals known to the State of California to cause cancer.

Warning! This product contains a chemical or chemicals known to the State of California to cause birth defects or other reproductive harm.

Section XVI - Other Information

The information contained in this material Safety Data Sheet is information from our suppliers and other sources. It is believed to be reliable. Due to the changing nature of government information, it is impossible to guarantee the accuracy of the information contained herein. Since the conditions of handling and use are beyond our control, we make no guarantee of results and assume no liability for damages incurred by the use of this material. This data is not to be taken as a warranty or representation for which this company assumes legal responsibility.

Developed on: **November 30, 2009**

Environmental Data Sheet

Zolatone AIM
Division of Advanced Refinish Technologies
850 Ladd Road, Building E
Walled Lake, Michigan 48390

www.zolatoneaim.com

All data given below are MAXIMUM THEORETICAL VALUES based on the product AS CURRENTLY FORMULATED. Variations may occur on individual batches due to adjustments made during production.

Product Number: ZO-9271-0001
Product Name: ZO-Epoxy Primer White
Product Weight: 11.131 lbs./gal.
Specific Gravity: 1.330
Flash Point: -0° - 575° F

VOLATILE ORGANIC COMPOUNDS

Volatile Ingredients Name	CAS Number	CERC	SARA 313	HAPS 112	% by weight	% by volume
n-butanol	71-36-3	X			0.0	0.6
methyl ethyl ketone	78-93-3		X		7.3	12.1
toluene	108-88-3		X	X	1.0	1.6
xylene	1330-20-7	X	X	X	3.5	5.4
ethyl benzene	100-41-4	X	X	X	1.5	2.3

A. Coating Density:	11.13 lbs./gal.	1334 g./l.
B. Total Volatiles:	40.3% by weight	61.8% by volume
Exempt Volatiles:	0.0% by weight	0.0% by volume
Water:	0.0% by weight	0.0% by volume
C. Organic volatiles:	40.3% by weight	61.8% by volume
D. Percent Non-Volatiles:	59.7% by weight	38.2% by volume
E. Regulatory VOC:	4.48 lbs./gal.	537 g./l.
Actual VOC:	4.48 lbs./gal.	537 g./l.
Solids:	6.65 lbs./gal.	797 g./l.

WASTE DISPOSAL

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act(RCRA)40 CFR 261. Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers. The addition of reducers or other additives to this product may substantially alter the above data. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.