

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name : ALEXSEAL P1611-LVOCProt. Primer 161 Base 9802 White

Use of the Substance/Mixture : Industrial serial painting

Company : Mankiewicz Coatings L.L.C
415 Jessen Lane
Charleston, South Carolina 29492
USA

Telephone : +1 (843) 6547755
Emergency Telephone : CHEMTREC +1 (800) 4249300 or +1 (703) 5273887

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Warning

Form: liquid, Color: according product name, Odor: characteristic

OSHA Hazards : FLAMMABLE LIQUID
CARCINOGEN
TOXIC BY INHALATION.
HARMFUL BY INGESTION.
HARMFUL BY SKIN ABSORPTION.
SKIN SENSITIZER
MODERATE SKIN IRRITANT
SEVERE EYE IRRITANT
MODERATE RESPIRATORY IRRITANT

Potential Health Effects

Inhalation : Harmful if inhaled.
May cause respiratory tract irritation.

Skin : May be harmful if absorbed through skin.
May cause allergic skin reaction.
May cause skin irritation.

Eyes : Causes eye irritation.

Ingestion : May be harmful if swallowed.

Chronic Exposure : Suspect cancer hazard - contains material which may cause cancer.

Symptoms of Overexposure : No information available.

Carcinogenicity:

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Fax: +49 (0) 40 / 75 10 33 75
www.mankiewicz.de

Bank Name Ort Kto.-Nr. BLZ BIC IBAN

Deutsche Bank	Hamburg	600227300	200 700 00	DEUTDEHHXXX	DE58 2007 0000 0600 2273 00
HypoVereinsbank	Hamburg	59273300	200 300 00	HYVEDEMM300	DE34 2003 0000 0059 2733 00
Postbank	Hamburg	373205	200 100 20	PBNKDEFF200	DE85 2001 0020 0000 3732 05

Sitz/Registergericht Hamburg: HRA 42442
Personlich haftende Gesellschafterin:
Grau Gebr. Beteiligungs-GmbH
Sitz/Registergericht Hamburg: HRB 17189
Geschäftsführender Gesellschafter:
Michael O. Grau

Bureau Veritas
Certification:
ISO 9001,
TS 16949,
EN 9100



Material Safety Data Sheet



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Revision Date 11/12/2014
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Version 1

IARC	Group 2B: Possibly carcinogenic to humans
	ethylbenzene 100-41-4
OSHA	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
NTP	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
ACGIH	Confirmed animal carcinogen with unknown relevance to humans: The agent is carcinogenic in experimental animals at a relatively high dose, by route(s) of administration, at site(s), of histologic type(s), or by mechanism(s) that may not be relevant to worker exposure. Available epidemiologic studies do not confirm an increased risk of cancer in exposed humans. Available evidence does not suggest that the agent is likely to cause cancer in humans except under uncommon or unlikely routes or levels of exposure. ethylbenzene 100-41-4

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Mixture of synthetic resins, organic solvents and pigments

Hazardous ingredients

Component	CAS-No.	Weight %
reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin (number average molecular weight 700-1100)	25068-38-6	10.00 - 30.00
methyl acetate	79-20-9	10.00 - 30.00
n-butyl acetate	123-86-4	5.00 - 10.00
butan-1-ol	71-36-3	1.00 - 5.00
xylene	1330-20-7	1.00 - 5.00
4-hydroxy-4-methylpentan-2-one	123-42-2	1.00 - 5.00
ethylbenzene	100-41-4	1.00 - 5.00

SECTION 4. FIRST AID MEASURES

First aid procedures

General advice : In all cases of doubt, or when sickness symptoms persist, seek medical attention.
Never give anything by mouth to an unconscious person.

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Inhalation	: Remove to fresh air, keep patient warm and at rest. Irregular breathing/no breathing: artificial respiration. If unconscious place in recovery position and seek medical advice.
Skin contact	: Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners !
Eye contact	: Remove contact lenses, irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart and seek medical advice.
Ingestion	: Do NOT induce vomiting. If accidentally swallowed obtain immediate medical attention. Never give anything by mouth to an unconscious person. Keep at rest.

Notes to physician

Symptoms	: No information available.
Treatment	: No information available.

SECTION 5. FIRE-FIGHTING MEASURES

Flammable properties

Flash point	: 54 °F (12 °C) Method: ISO 2719
Ignition temperature	: > 752 °F (> 400 °C)
Lower explosion limit	: 1 %(V)
Upper explosion limit	: 10 %(V)

Fire fighting

Suitable extinguishing media	: Alcohol resistant foam, CO2, powders, water spray
Unsuitable extinguishing media	: High volume water jet
Further information	: Cool endangered containers with water in case of fire. DO NOT ALLOW RUN-OFF FROM FIRE FIGHTING TO ENTER DRAINS OR WATER COURSES!!

Protective equipment and precautions for firefighters

Specific hazards during fire	: Fire will produce dense black smoke. Exposure to
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Michael O. Grau



fighting decomposition products may cause a health hazard.

Special protective equipment for fire-fighters : As in any fire, wear self-contained breathing apparatus pressure - demand, MSHA / NIOSH (approved or equivalent) and full protective gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Exclude sources of ignition and ventilate the area.
Do not inhale vapors.
Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Do not let product enter drains.
If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

Methods for containment / Methods for cleaning up : Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see chapter 13).
Clean preferably with a detergent; avoid use of solvents.

SECTION 7. HANDLING AND STORAGE

Handling

Handling : Prevent the creation of flammable or explosive concentrations of vapor in air and avoid vapor concentrations higher than the occupational exposure limits.
Comply with the health and safety at work laws.
Smoking, eating and drinking should be prohibited in the application area.
Observe specific national regulations for handling and use of paints.

Advice on protection against fire and explosion : The product should only be used in areas from which all naked lights and other sources of ignition have been excluded.
Preparation may charge electrostatically: always use earthing leads when transferring from one container to another.
Operators should wear anti-static footwear and clothing. No sparking tools should be used.
Vapors are heavier than air and may spread along floors.
Vapors may form explosive mixtures with air.

Storage

Requirements for storage areas and containers : Electrical equipment should be protected to the appropriate standard. Floors should be of the conducting type.
Keep container tightly closed. Never use pressure to empty: container is not a pressure vessel. No smoking. Prevent unauthorized access.

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Further information on storage conditions : Always keep in containers of same material as the original one. See also instructions on the label. Avoid heating and direct sunlight.
Keep container dry in a cool, well-ventilated place.

Advice on common storage : Keep away from oxidizing agents and strongly acid or alkaline materials.

Storage temperature : 41 - 95 °F (5 - 35 °C)

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Ingredients with workplace control parameters

Ingredients Source	Value	Control parameters
methyl acetate CAS-No.79-20-9		
ACGIH	TWA	200 ppm
ACGIH	STEL	250 ppm
OSHA P1	TWA	200 ppm 610 mg/m ³
OSHA P0	TWA	200 ppm 610 mg/m ³
OSHA P0	STEL	250 ppm 760 mg/m ³
n-butyl acetate CAS-No.123-86-4		
ACGIH	TWA	150 ppm
ACGIH	STEL	200 ppm
NIOSH REL	ST	200 ppm 950 mg/m ³
NIOSH REL	TWA	150 ppm 710 mg/m ³
OSHA P1	TWA	150 ppm 710 mg/m ³
OSHA P0	TWA	150 ppm 710 mg/m ³
OSHA P0	STEL	200 ppm 950 mg/m ³
butan-1-ol CAS-No.71-36-3		
ACGIH	TWA	20 ppm
NIOSH REL	C	50 ppm 150 mg/m ³
OSHA P1	TWA	100 ppm 300 mg/m ³
OSHA P0	C	50 ppm 150 mg/m ³
xylene CAS-No.1330-20-7		
ACGIH	TWA	100 ppm

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OSHA P1	TWA	100 ppm 435 mg/m3
OSHA P0	TWA	100 ppm 435 mg/m3
OSHA P0	STEL	150 ppm 655 mg/m3
4-hydroxy-4-methylpentan-2-one CAS-No.123-42-2		
ACGIH	TWA	50 ppm
OSHA P1	TWA	50 ppm 240 mg/m3
OSHA P0	TWA	50 ppm 240 mg/m3
ethylbenzene CAS-No.100-41-4		
ACGIH	TWA	100 ppm
ACGIH	STEL	125 ppm
OSHA P1	TWA	100 ppm 435 mg/m3
OSHA P0	TWA	100 ppm 435 mg/m3
OSHA P0	STEL	125 ppm 545 mg/m3
formaldehyde CAS-No.50-00-0		
ACGIH	C	0.3 ppm
OSHA P1		
OSHA Z2		
OSHA P0		

Immediately Dangerous to Life or Health Concentrations (IDLH)

Substance name	CAS-No.	Control parameters	Update
methyl acetate	79-20-9	Immediately Dangerous to Life or Health Concentration Value 3100 parts per million	1995-03-01
n-butyl acetate	123-86-4	Immediately Dangerous to Life or Health Concentration Value 1700 parts per million	1995-03-01
butan-1-ol	71-36-3	Immediately Dangerous to Life or Health Concentration Value 1400 parts per million	1995-03-01
xylene	1330-20-7	Immediately Dangerous to Life or Health Concentration Value 900 parts per million	1995-03-01
4-hydroxy-4-methylpentan-2-one	123-42-2	Immediately Dangerous to Life or Health Concentration Value 1800 parts per million	1995-03-01
ethylbenzene	100-41-4	Immediately Dangerous to Life or Health Concentration Value 800 parts per million	1995-03-01

Engineering measures

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HypoVereinsbank	Hamburg	59273300	200 300 00	HYVEDEMM300	DE34 2003 0000 0059 2733 00	Gebr. Beteiligungs-GmbH	
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Engineering measures

: Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain aerosol- and solvent vapors concentration below the OEL, suitable respiratory protection must be worn.

Personal protective equipment

Protective measures

: Do not eat or drink during work - no smoking.
Avoid product contact with skin, eyes and clothing.
Avoid the inhalation of dust from sanding, particulates and spray mist arising from the application of this preparation.
When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapor in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process until such time as the particulates and solvent vapor concentration has fallen below the exposure limits.

Eye protection

: Use safety glasses or face shield (ANSI Z87.1 or approved equivalent).

Hand protection

: Glove permeation data does not exist for this material.
The following glove(s) should be used for splash protection only:
Appropriate material: nitrile

Skin and body protection

: Personal should wear protective clothing as necessary to prevent skin contact. All parts of the body should be washed after contact.

Respiratory protection

: If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators.
Use MSHA/NIOSH approved respirator if concentration exceeds recommended exposure levels.
Dry grinding, torch cutting and/or welding however can produce hazardous dust and/or vapor.
If possible, machine employing a wet medium.
Where practicable, install exhaust hoods to improve capture of vapors and fumes and avoid exposition; otherwise wear respiratory protection equipment.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form : liquid
Color : according product name
Odor : characteristic

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Geschäftsführer: Michael O. Grau

Bureau Veritas
Certification:
ISO 9001,
TS 16949,
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Safety data

Flash point	: 54 °F (12 °C) Method: ISO 2719
Ignition temperature	: > 752 °F (> 400 °C)
Lower explosion limit	: 1 %(V)
Upper explosion limit	: 10 %(V)
Boiling point/boiling range	: ca. 248 °F (120 °C)
Vapor pressure	: ca. 120 hPa (90 mmHg) at 122 °F (50 °C)
Density	: ca.12.10 lb/gal (1.45 g/cm3) at 68 °F (20 °C)
Water solubility	: Note: insoluble
Flow time	: >150 s 4 mm Method: DIN 53211
	: >100 s 6 mm Method: ISO 2431

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid	: Remarks: Stable under recommended storage and handling conditions (See section 7).
Materials to avoid	: Remarks: Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.
Hazardous decomposition products	: Note: When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.
Hazardous reactions	: No dangerous reaction known under conditions of normal use. There are no data available on the preparation itself.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	: Component: 4-hydroxy-4-methylpentan-2-one (CAS-No.: 123-42-2) LD50 rat Dose: 4,000 mg/kg
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Acute dermal toxicity	: Component: 4-hydroxy-4-methylpentan-2-one (CAS-No.: 123-42-2) LD50 rabbit Dose: 13,630 mg/kg
Acute inhalation toxicity	: Component: butan-1-ol (CAS-No.: 71-36-3) Remarks: Lung irritation
Eye irritation	: Component: methyl acetate (CAS-No.: 79-20-9) rabbit Result: Irritating to eyes.
Further information	: Exposure of vapor concentration in excess of the stated OEL's may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extrem cases, loss of consciousness. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.

SECTION 12. ECOLOGICAL INFORMATION

Biodegradability	: Remarks: There are no data available on the preparation itself.
Bioaccumulation	: Remarks: There are no data available on the preparation itself.
Additional ecological information	: There are no data available on the preparation itself. The product should not be allowed to enter drains or water courses.

Component:
methyl acetate

79-20-9

Toxicity to fish:

LC50
species: Danio rerio (zebra fish)
Dose: 250 - 350 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates:

EC50
species: Daphnia magna (Water flea)
Dose: 1,026 mg/l
Exposure time: 24 h

Toxicity to algae:

EC50

species: Pseudokirchneriella subcapitata (green algae)

Dose: > 120 mg/l

Exposure time: 72 h

SECTION 13. DISPOSAL CONSIDERATIONS

Further information : Dispose of in accordance with local regulations.

SECTION 14. TRANSPORT INFORMATION

DOT

UN number : 1263
Description of the goods : PAINT
Class : 3
Packing group : II
Labels : 3
Environmentally hazardous : no

IATA

UN number : 1263
Description of the goods : PAINT
Class : 3
Packing group : III
Labels : 3
Packing instruction (cargo aircraft) : 366
Packing instruction (passenger aircraft) : 355
Packing instruction (LQ) : Y344
Environmentally hazardous : no

IMDG

UN number : 1263
Description of the goods : PAINT
Class : 3
Packing group : III
Labels : 3
EmS Number 1 : F-E
EmS Number 2 : S-E

Marine pollutant : no
Environmentally hazardous : no

Other information : If transported within the user's premises: To be transported always in closed, upright and safe containers. Make sure that persons handling these containers are aware of the rules of conduct in case of incident or spillage.

SECTION 15. REGULATORY INFORMATION

OSHA Hazards : Flammable Liquid, Carcinogen, Toxic by inhalation., Harmful by ingestion., Harmful by skin absorption., Skin sensitizer, Moderate skin irritant, Severe eye irritant, Moderate respiratory irritant

TSCA Status : n (Negative listing)
Not On TSCA Inventory

SARA 311/312 Hazards : Fire Hazard
Acute Health Hazard
Chronic Health Hazard

Clean Air Act
Ozone-Depletion Potential : This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Clean Water Act
The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:
n-butyl acetate 123-86-4

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:
n-butyl acetate 123-86-4

EPCRA - EMERGENCY PLANNING COMMUNITY RIGHT - TO - KNOW

SARA 302 Reportable Quantity : The following components are subject to reporting levels established by SARA Title III, Section 302:

formaldehyde 50-00-0 lbs

SARA 313 Ingredients : butan-1-ol 71-36-3
Xylene 1330-20-7
ethylbenzene 100-41-4

US CAA HAP : The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

xylene	1330-20-7	3.6406 %
ethylbenzene	100-41-4	1.2102 %
METHANOL	67-56-1	0.0318 %
formaldehyde	50-00-0	0.025 %

CAA112(r) : The following chemical(s) are listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F):

formaldehyde	50-00-0	0.025 %
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CAA111 : The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

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n-butyl acetate	123-86-4	7.9285 %
butan-1-ol	71-36-3	4.0549 %
xylene	1330-20-7	3.6406 %
ethylbenzene	100-41-4	1.2102 %
METHANOL	67-56-1	0.0318 %
formaldehyde	50-00-0	0.025 %

US State Regulations

Massachusetts Right To Know Ingredients	:	methyl acetate	79-20-9
		butyl acetate	123-86-4
		butan-1-ol	71-36-3
		Xylene	1330-20-7
		4-hydroxy-4-methylpentan-2-one	123-42-2
		ethylbenzene	100-41-4
		formaldehyde	50-00-0
Pennsylvania Right To Know Ingredients	:	methyl acetate	79-20-9
		butyl acetate	123-86-4
		Kieselguhr, soda ash flux-calcined	68855-54-9
		butan-1-ol	71-36-3
		Xylene	1330-20-7
		4-hydroxy-4-methylpentan-2-one	123-42-2
		ethylbenzene	100-41-4
		METHANOL	67-56-1
		formaldehyde	50-00-0
New Jersey Right To Know Ingredients	:	methyl acetate	79-20-9
		butyl acetate	123-86-4
		butan-1-ol	71-36-3
		Xylene	1330-20-7
		4-hydroxy-4-methylpentan-2-one	123-42-2
		ethylbenzene	100-41-4

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200 300 00
200 100 20

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California Prop. 65 Ingredients

: WARNING! This product contains a chemical known in the State of California to cause cancer.

ethylbenzene	100-41-4
formaldehyde	50-00-0

US Federal Regulations

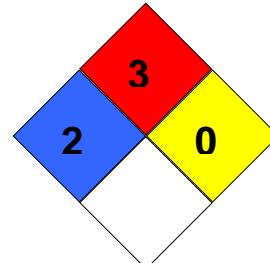
Volatile organic compounds : VOC content excluding water:
(VOC) content 2.59 lb/gal (0.31 g/cm3)

SECTION 16. OTHER INFORMATION

Further information

HMIS Classification : Flammability: 3

NFPA Classification : Health Hazard: 2
Fire Hazard: 3
Reactivity Hazard: 0



Department issuing safety data sheet

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