

Commercial Product Name: ALEXSEAL P4422-Finish Primer 442

Product No.: 1534098023000

Version **Revision Date:** SDS Number: Date of last issue: 06/19/2017 1.6 04/06/2020 F-1534098023 Date of first issue: 07/23/2015

SECTION 1. IDENTIFICATION

Product name ALEXSEAL P4422-Finish Primer 442 9802 White

1534098023000 Product number

Manufacturer or supplier's details

Manufacturer, importer,

supplier

Mankiewicz Coatings L.L.C

Address 1200 Charleston Regional Parkway

Charleston, South Carolina 29492

USA

Telephone +1 (843) 6547755 Telefax +1 (843) 6547759 E-mail address sdb_info@umco.de

Emergency telephone : CHEMTREC +1 (800) 4249300 or + (703) 5273887

Recommended use of the chemical and restrictions on use

Recommended use : Industrial serial painting

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Flammable liquids Category 2

Skin irritation Category 2

Serious eye damage Category 1

Skin sensitization Category 1

Carcinogenicity Category 2

Specific target organ toxicity Category 3 (Central nervous system)

- single exposure

Specific target organ toxicity

- repeated exposure

Category 2

GHS label elements



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Hazard pictograms









Signal Word Danger

Hazard Statements H225 Highly flammable liquid and vapor.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H318 Causes serious eve damage. H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer.

H373 May cause damage to organs through prolonged or

repeated exposure.

Precautionary Statements

Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat/sparks/open flames/hot surfaces.

No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ ventilating/ lighting/ equip-

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge. P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing must not be allowed out of the workplace.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON

CENTER/doctor if you feel unwell. P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON

CENTER/doctor. P308 + P313 IF exposed or concerned: Get medical advice/

attention. P333 + P313 If skin irritation or rash occurs: Get medical advice/





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Product No.: 1534098023000

Version **Revision Date:** SDS Number: Date of last issue: 06/19/2017 Date of first issue: 07/23/2015 1.6 04/06/2020 F-1534098023

attention.

P362 Take off contaminated clothing and wash before reuse. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature Mixture of synthetic resins, organic solvents and pigments

Components

Chemical name	CAS-No.	Concentration (% w/w)
titanium dioxide	13463-67-7	>= 5 - < 12.5
Fatty acids, C18-unsatd., dimers,	68082-29-1	>= 5 - < 12.5
oligomeric reaction products with tall-		
oil fatty acids and triethylenetetra-		
mine		
limestone	1317-65-3	>= 5 - < 12.5
propan-2-ol	67-63-0	>= 5 - < 12.5
n-butyl acetate	123-86-4	>= 5 - < 12.5
butanone	78-93-3	>= 5 - < 12.5
kaolin	1332-58-7	>= 1 - < 5
butan-1-ol	71-36-3	>= 1 - < 5
1-methoxypropan-2-ol	107-98-2	>= 1 - < 5
xylenes	1330-20-7	>= 1 - < 5
Amines, polyethylenepoly-, triethyl-	90640-67-8	>= 0.5 - < 1
enetetramine fraction		
ethylbenzene	100-41-4	>= 0.25 - < 0.5
2,4,6-	90-72-2	>= 0.25 - < 0.5
tris(dimethylaminomethyl)phenol		

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice In all cases of doubt, or when sickness symptoms persist,





Commercial Product Name: ALEXSEAL P4422-Finish Primer 442

Product No.: 1534098023000

Revision Date: SDS Number: Date of last issue: 06/19/2017 Version 1.6 04/06/2020 F-1534098023 Date of first issue: 07/23/2015

seek medical attention.

Never give anything by mouth to an unconscious person.

If inhaled 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.

In case of 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!

In case of eye contact Remove contact lenses, irrigate copiously with clean, fresh

water for at least 10 minutes, holding the eyelids apart and

seek medical advice.

If swallowed Do NOT induce vomiting.

> If accidentally swallowed obtain immediate medical attention. Never give anything by mouth to an unconscious person.

Keep at rest.

Most important symptoms and effects, both acute and

delayed

For information on symptoms and effects refer to Section 2

Hazard statements and Section 11 Toxicological Information.

Notes to physician No information available.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Alcohol resistant foam, CO2, powders

Unsuitable extinguishing

media

High volume water jet

Specific hazards during fire

fiahtina

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

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!!

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, protec- : Exclude sources of ignition and ventilate the area.



Commercial Product Name: ALEXSEAL P4422-Finish Primer 442

Product No.: 1534098023000

Date of last issue: 06/19/2017 Version Revision Date: SDS Number: 1.6 04/06/2020 F-1534098023 Date of first issue: 07/23/2015

tive equipment and emer-

gency procedures

Do not inhale vapors.

Refer to protective measures listed in sections 7 and 8.

Evacuate personnel to safe areas.

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 and materials for containment and 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 section 13).

Clean preferably with a detergent; avoid use of solvents.

SECTION 7. HANDLING AND STORAGE

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 whentransferring 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.

Advice on safe 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.

Conditions for safe storage

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 isnot 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 stor-

age 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.

Materials to avoid Keep away from oxidizing agents and strongly acid or alkaline



Commercial Product Name: ALEXSEAL P4422-Finish Primer 442

Product No.: 1534098023000

Version Revision Date: SDS Number: Date of last issue: 06/19/2017 1.6 04/06/2020 F-1534098023 Date of first issue: 07/23/2015

materials.

Recommended storage tem- : 41 - 95 °F / 5 - 35 °C

perature

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type	Control parame-	Basis			
		(Form of	ters / Permissible				
		exposure)	concentration				
titanium dioxide	13463-67-7	TWA	10 mg/m3	CR OEL			
			fiable as a human ca	rcinogen, Lo-			
	wer Respirate	wer Respiratory Tract irritation					
		TWA	10 mg/m3	CA AB OEL			
		TWA (Total	10 mg/m3	CA BC OEL			
		dust)					
		TWA (respir-	3 mg/m3	CA BC OEL			
		able dust					
		fraction)					
		TWAEV (to-	10 mg/m3	CA QC OEL			
		tal dust)					
		VLE-PPT	10 mg/m3	NOM-010-			
				STPS-2014			
		TWA (total dust)	15 mg/m3	OSHA Z-1			
		TWA (Total	10 mg/m3	OSHA P0			
		dust)	-				
limestone	1317-65-3	TWA	10 mg/m3	CA AB OEL			
		TWAEV (to- tal dust)	10 mg/m3	CA QC OEL			
		TWA (total	15 mg/m3	OSHA Z-1			
		dust)	10g,				
		TWA (respir-	5 mg/m3	OSHA Z-1			
		able fraction)					
		TWA (Total	15 mg/m3	OSHA P0			
		dust) `					
		TWÁ (respir- 5 mg/m3		OSHA P0			
		able dust					
		fraction)					
propan-2-ol	67-63-0	TWA	200 ppm	CR OEL			
		Further information: Not classifiable as a human carcinogen, Sub					
		stances for which there is a Biological Exposure Index or Indices					
		(see BEI section), Central Nervous System impairment, Eye irrit					
	tion, Upper R	tespiratory Tract i					
		STEL	400 ppm	CR OEL			
	Further inforr	Further information: Not classifiable as a human carcinogen, Sub-					





Commercial Product Name: ALEXSEAL P4422-Finish Primer 442

Product No.: 1534098023000

			Biological Exposure I		
			ervous System impai	rment, Eye irrita-	
	tion, Upper F	Respiratory Trac		T a a = .	
		TWA	200 ppm 492 mg/m3	CA AB OEL	
		STEL	400 ppm 984 mg/m3	CA AB OEL	
		TWA	200 ppm	CA BC OEL	
		STEL	400 ppm	CA BC OEL	
		TWAEV	400 ppm 983 mg/m3	CA QC OEL	
		STEV	500 ppm 1,230 mg/m3	CA QC OEL	
		VLE-PPT	200 ppm	NOM-010- STPS-2014	
		VLE-CT	400 ppm	NOM-010- STPS-2014	
		TWA	200 ppm	ACGIH	
		STEL	400 ppm	ACGIH	
		TWA	400 ppm 980 mg/m3	NIOSH REL	
		ST	500 ppm 1,225 mg/m3	NIOSH REL	
		TWA	400 ppm 980 mg/m3	OSHA Z-1	
		TWA	400 ppm 980 mg/m3	OSHA P0	
		STEL	500 ppm 1,225 mg/m3	OSHA P0	
n-butyl acetate	123-86-4	TWA	50 ppm	CR OEL	
	Further infor	formation: Eye irritation, Upper Respiratory Tract irrita-			
		STEL	150 ppm	CR OEL	
	Further infor	mation: Eye irrita	ation, Upper Respirat	ory Tract irrita-	
		TWA	150 ppm 713 mg/m3	CA AB OEL	
		STEL	200 ppm 950 mg/m3	CA AB OEL	
		TWA	20 ppm	CA BC OEL	
		TWAEV	150 ppm 713 mg/m3	CA QC OEL	
		STEV	200 ppm 950 mg/m3	CA QC OEL	
		VLE-PPT	150 ppm	NOM-010- STPS-2014	
		VLE-CT	200 ppm	NOM-010- STPS-2014	



Commercial Product Name: ALEXSEAL P4422-Finish Primer 442

Product No.: 1534098023000

1		TWA	150 ppm	NIOSH REL
			710 mg/m3	
		ST	200 ppm 950 mg/m3	NIOSH REL
		TWA	150 ppm 710 mg/m3	OSHA Z-1
		TWA	150 ppm 710 mg/m3	OSHA P0
		STEL	200 ppm 950 mg/m3	OSHA P0
		TWA	50 ppm	ACGIH
		STEL	150 ppm	ACGIH
butanone	78-93-3	TWA	200 ppm	CR OEL
5 414.151.15			ces for which there	
			ee BEI section), Cer	
			espiratory Tract irrit	
		tem impairment	. ,	
		STEL	300 ppm	CR OEL
	Further inform		ces for which there	
			ee BEI section), Cer	
			espiratory Tract irrit	
		tem impairment	oophatory rraot min	ation, r onprioral
		TWA	200 ppm	CA AB OEL
			590 mg/m3	
		STEL	300 ppm 885 mg/m3	CA AB OEL
		TWA	50 ppm	CA BC OEL
		STEL	100 ppm	CA BC OEL
		TWAEV	50 ppm 150 mg/m3	CA QC OEL
		STEV	100 ppm 300 mg/m3	CA QC OEL
		VLE-PPT	200 ppm	NOM-010- STPS-2014
		VLE-CT	300 ppm	NOM-010- STPS-2014
		TWA	200 ppm	ACGIH
		STEL	300 ppm	ACGIH
		TWA	200 ppm	NIOSH REL
			590 mg/m3	
		ST	300 ppm	NIOSH REL
			885 mg/m3	
		TWA	200 ppm	OSHA Z-1
			590 mg/m3	
		TWA	200 ppm	OSHA P0
			590 mg/m3	
		STEL	300 ppm 885 mg/m3	OSHA P0
kaolin	1332-58-7	TWA (Res-	2 mg/m3	CA AB OEL
	.00= 00 /	1		



Commercial Product Name: ALEXSEAL P4422-Finish Primer 442

Product No.: 1534098023000

		pirable)		
		TWA (Res-	2 mg/m3	CA BC OEL
		pirable)		
		TWAEV	5 mg/m3	CA QC OEL
		(respirable		
		dust)		
		VLE-PPT	2 mg/m3	NOM-010-
		(Respirable		STPS-2014
		fraction)	0 / 0	400"
		TWA (Res-	2 mg/m3	ACGIH
		pirable frac-		
		tion)	F	NIOCH DEL
		TWA (Res-	5 mg/m3	NIOSH REL
		pirable)	10 m a/m 2	NIOCH DEI
		TWA (total) TWA (total	10 mg/m3 15 mg/m3	NIOSH REL OSHA Z-1
		dust)	15 mg/ms	USHA Z-1
		TWA (respir-	5 mg/m3	OSHA Z-1
		able fraction)	3 mg/m3	03114 2-1
		TWA (Total	10 mg/m3	OSHA P0
		dust)	10 mg/mo	0011/110
		TWA (respir-	5 mg/m3	OSHA P0
		able dust	0 111g/1110	33
		fraction)		
butan-1-ol	71-36-3	TWA	20 ppm	CR OEL
	Further information	mation: Eye irritati	ion, Upper Respira	tory Tract irrita-
		TWA	20 ppm 60 mg/m3	CA AB OEL
		TWA	15 ppm	CA BC OEL
		С	30 ppm	CA BC OEL
		С	50 ppm 152 mg/m3	CA QC OEL
		VLE-PPT	20 ppm	NOM-010- STPS-2014
		TWA	20 ppm	ACGIH
		С	50 ppm	NIOSH REL
			150 mg/m3	
		TWA	100 ppm	OSHA Z-1
			300 mg/m3	
		С	50 ppm	OSHA P0
			150 mg/m3	
1-methoxypropan-2-ol	107-98-2	TWA	50 ppm	CR OEL
		mation: Not classi per Respiratory Tr	fiable as a human act irritation	carcinogen, Eye
		STEL	100 ppm	CR OEL
		mation: Not classi per Respiratory Tr	fiable as a human act irritation	carcinogen, Eye
	5, 5	STEL	150 ppm	CA AB OEL
			1 FF 11	AV VE



Commercial Product Name: ALEXSEAL P4422-Finish Primer 442

Product No.: 1534098023000

			553 mg/m3	
		TWA	100 ppm 369 mg/m3	CA AB OEL
		TWA	50 ppm	CA BC OEL
		STEL	100 ppm	CA BC OEL
		TWAEV	100 ppm 369 mg/m3	CA QC OEL
		STEV	150 ppm 553 mg/m3	CA QC OEL
		VLE-PPT	100 ppm	NOM-010- STPS-2014
		VLE-CT	150 ppm	NOM-010- STPS-2014
		TWA	50 ppm	ACGIH
		STEL	100 ppm	ACGIH
		ST	150 ppm 540 mg/m3	NIOSH REL
		TWA	100 ppm 360 mg/m3	NIOSH REL
		TWA	100 ppm 360 mg/m3	OSHA P0
		STEL	150 ppm 540 mg/m3	OSHA P0
xylenes	1330-20-7	VLE-PPT	100 ppm	NOM-010- STPS-2014
		VLE-CT	150 ppm	NOM-010- STPS-2014
		TWA	100 ppm 435 mg/m3	OSHA Z-1
		TWA	100 ppm	ACGIH
		STEL	150 ppm	ACGIH
		STEL	150 ppm 651 mg/m3	CA AB OEL
		TWA	100 ppm 434 mg/m3	CA AB OEL
		TWAEV	100 ppm 434 mg/m3	CA QC OEL
		STEV	150 ppm 651 mg/m3	CA QC OEL
		TWA	100 ppm	CA BC OEL
		STEL	150 ppm	CA BC OEL
		STEL	150 ppm 655 mg/m3	OSHA P0
		TWA	100 ppm 435 mg/m3	OSHA P0
ethylbenzene	100-41-4	TWA	20 ppm	CR OEL
			ed animal carcinoge xposure Index or Ind	



Commercial Product Name: ALEXSEAL P4422-Finish Primer 442

Product No.: 1534098023000

Version **Revision Date:** SDS Number: Date of last issue: 06/19/2017 1.6 04/06/2020 F-1534098023 Date of first issue: 07/23/2015

section), Visual impairment, Kidney damage (nephropath		ract irritation,
TWA	100 ppm 434 mg/m3	CA AB OEL
STEL	125 ppm 543 mg/m3	CA AB OEL
TWA	20 ppm	CA BC OEL
STEV	125 ppm 543 mg/m3	CA QC OEL
TWAEV	100 ppm 434 mg/m3	CA QC OEL
VLE-PPT	20 ppm	NOM-010- STPS-2014
TWA	20 ppm	ACGIH
TWA	100 ppm 435 mg/m3	NIOSH REL
ST	125 ppm 545 mg/m3	NIOSH REL
TWA	100 ppm 435 mg/m3	OSHA Z-1
TWA	100 ppm 435 mg/m3	OSHA P0
STEL	125 ppm 545 mg/m3	OSHA P0

Biological occupational exposure limits

Components	CAS-No.	Control	Biological	Sam-	Permissible	Basis
		parameters	specimen	pling	concentra-	
				time	tion	
propan-2-ol	67-63-0	Acetone	Urine	End of	40 mg/l	MX BEI
				shift at		
				end of		
				work-		
				week		
		Acetone	Urine	End of	40 mg/l	ACGIH
				shift at		BEI
				end of		
				work-		
				week		
		Acetone	Urine	End of	40 mg/l	CR BEI
				shift at		
				end of		
				work-		
				week		
butanone	78-93-3	MEK	Urine	End of	2 mg/l	MX BEI
				shift		
		methyl ethyl	Urine	End of	2 mg/l	ACGIH
		ketone		shift (As		BEI
				soon as		





Commercial Product Name: ALEXSEAL P4422-Finish Primer 442

Product No.: 1534098023000

Version **Revision Date:** SDS Number: Date of last issue: 06/19/2017 04/06/2020 F-1534098023 Date of first issue: 07/23/2015 1.6

		Mathydathyd	Llaine	possible after exposure ceases)	2	CD DEL
		Methyl ethyl ketone (MEK)	Urine	End of shift	2 mg/l	CR BEI
xylenes	1330-20-7	Methyl- hippuric acids	Urine	End of shift (As soon as possible after exposure ceases)	1.5 g/g creatinine	ACGIH BEI
		Methyl- hippuric acid	Urine	End of shift	1.5 g/g cre- atinine	MX BEI
		Methyl- hippuric acids	Urine	End of shift	1.5 g/g creatinine	CR BEI
ethylbenzene	100-41-4	Sum of Mandelic acid plus phenylgly- oxylic acid	Urine	End of shift at end of work- week	0.7 g/g creatinine	MX BEI
		Sum of mandelic acid and phenyl gly- oxylic acid	Urine	End of shift (As soon as possible after exposure ceases)	0.15 g/g creatinine	ACGIH BEI
		Sum of mandelic acid and phenyl gly- oxylic acid	Urine	End of shift	0.15 g/g creatinine	CR BEI

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

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





Commercial Product Name: ALEXSEAL P4422-Finish Primer 442

Product No.: 1534098023000

Revision Date: SDS Number: Date of last issue: 06/19/2017 Version 1.6 04/06/2020 F-1534098023 Date of first issue: 07/23/2015

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.

Hand protection

Remarks Glove permeation data does not exist for this material.

The following glove(s) should be used for splash protection

only:

Appropriate material: nitrile

Eye protection Use safety glasses or face shield (ANSI Z87.1 or approved

equivalent).

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.

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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance liquid

Color according product name

Odor characteristic

Ηq Not applicable

Boiling point/boiling range ca. 248 °F / 120 °C



Commercial Product Name: ALEXSEAL P4422-Finish Primer 442

Product No.: 1534098023000

Revision Date: SDS Number: Date of last issue: 06/19/2017 Version 1.6 04/06/2020 F-1534098023 Date of first issue: 07/23/2015

Flash point 50.9 °F / 10.5 °C

Method: ISO 13736

Upper explosion limit / Upper

flammability limit

10 %(V)

Lower explosion limit / Lower

flammability limit

1 %(V)

Vapor pressure ca. 100 hPa (122 °F / 50 °C)

Density 12.43 lb/gal (1.49 g/cm3)

(68 °F / 20 °C)

Solubility(ies)

Water solubility insoluble

> 752 °F / > 400 °C Autoignition temperature

Viscosity

Flow time > 200 s

> Cross section: 4 mm Method: DIN 53211

> 101 s

Cross section: 6 mm Method: ISO 2431

SECTION 10. STABILITY AND REACTIVITY

Reactivity No decomposition if stored and applied as directed.

Chemical stability Stable under normal conditions.

Possibility of hazardous reac-

tions

No dangerous reaction known under conditions of normal use.

There are no data available on the preparation itself.

Conditions to avoid Stable under recommended storage and handling conditions

(See section 7).

Incompatible materials Keep away from oxidizing agents, strongly alkaline and

strongly acidic materials in order to avoid exothermic

reactions.

Hazardous decomposition

products

When exposed to high temperatures may produce hazardous

decomposition products such as carbon monoxide and diox-

ide, smoke, oxides of nitrogen.



Commercial Product Name: ALEXSEAL P4422-Finish Primer 442

Product No.: 1534098023000

Version **Revision Date:** SDS Number: Date of last issue: 06/19/2017 1.6 04/06/2020 F-1534098023 Date of first issue: 07/23/2015

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity Acute toxicity estimate: > 5,000 mg/kg

Method: Calculation method

Acute toxicity estimate: > 200 mg/l Acute inhalation toxicity

> Exposure time: 4 h Test atmosphere: vapor Method: Calculation method

: Acute toxicity estimate: > 5,000 mg/kg Acute dermal toxicity

Method: Calculation method

Components:

propan-2-ol:

Acute dermal toxicity LD50 (Rabbit): 12,800 mg/kg

butan-1-ol:

LD50 (Rat): 790 mg/kg Acute oral toxicity

xylenes:

Acute oral toxicity LD50 Oral (Rat): 4,300 mg/kg

Amines, polyethylenepoly-, triethylenetetramine fraction:

Acute oral toxicity : LD50 (Rat, female): 1,591.4 mg/kg

Acute dermal toxicity : LD50 (Rabbit, male and female): 1,465.4 mg/kg

2,4,6-tris(dimethylaminomethyl)phenol:

Acute dermal toxicity : LD50 (Rabbit): 1,242 mg/kg

Skin corrosion/irritation

Components:

2,4,6-tris(dimethylaminomethyl)phenol:

Rabbit **Species** Assessment Corrosive

Method **OECD Test Guideline 404**



Commercial Product Name: ALEXSEAL P4422-Finish Primer 442

Product No.: 1534098023000

Revision Date: SDS Number: Date of last issue: 06/19/2017 Version 1.6 04/06/2020 F-1534098023 Date of first issue: 07/23/2015

Respiratory or skin sensitization

Components:

2,4,6-tris(dimethylaminomethyl)phenol:

Species

Method OECD Test Guideline 406

Result May cause sensitization by skin contact.

Carcinogenicity

IARC Group 1: Carcinogenic to humans

> kaolin 1332-58-7

(Silica dust, crystalline)

Group 2B: Possibly carcinogenic to humans

ethylbenzene 100-41-4

OSHA No component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

NTP Known to be human carcinogen

> kaolin 1332-58-7

(Silica, Crystalline (Respirable Size))

Further information

Product:

Remarks 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 nonallergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and re-

versible damage.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Ecotoxicology Assessment

Acute aquatic toxicity There are no data available on the preparation itself.



Commercial Product Name: ALEXSEAL P4422-Finish Primer 442

Product No.: 1534098023000

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 06/19/2017

 1.6
 04/06/2020
 F-1534098023
 Date of first issue: 07/23/2015

Components:

propan-2-ol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 9,640 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 13,299 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

EC50 (Desmodesmus subspicatus (green algae)): > 1,000

mg/l

Exposure time: 72 h

Toxicity to microorganisms : (Pseudomonas putida): 5,175 mg/l

Exposure time: 18 h

Amines, polyethylenepoly-, triethylenetetramine fraction:

Toxicity to algae/aquatic

plants

ErC50 (Selenastrum capricornutum (green algae)): 20 mg/l

Exposure time: 72 h
Test Type: semi-static test

Method: OECD Test Guideline 201

2,4,6-tris(dimethylaminomethyl)phenol:

Toxicity to fish : LC50 (Fish): 175 mg/l

Exposure time: 96 h

Toxicity to algae/aquatic : EC50: 84 mg/l

plants

Exposure time: 72 h

Test Type: Growth inhibition

Method: OECD Test Guideline 201

Persistence and degradability

Product:

Biodegradability : Remarks: There are no data available on the preparation it-

self.

Components:

propan-2-ol:

Biodegradability : Result: rapidly biodegradable

Biodegradation: 95 % Exposure time: 21 d



Commercial Product Name: ALEXSEAL P4422-Finish Primer 442

Product No.: 1534098023000

Version Revision Date: SDS Number: Date of last issue: 06/19/2017 1.6 04/06/2020 F-1534098023 Date of first issue: 07/23/2015

Bioaccumulative potential

Product:

Bioaccumulation Remarks: There are no data available on the preparation it-

self.

Mobility in soil

Product:

Mobility Remarks: There are no data available on the preparation it-

self.

Other adverse effects

Product:

Ozone-Depletion Potential Regulation: 40 CFR Protection of Environment; Part 82 Pro-

tection of Stratospheric Ozone - CAA Section 602 Class I

Substances

Remarks: 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).

Additional ecological infor-

mation

There are no data available on the preparation itself.

The product should not be allowed to enter drains or water

courses.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues Dispose of in accordance with local regulations.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

UN/ID No. UN 1263 **PAINT** Proper shipping name 3 Class Ш Packing group

Class 3 - Flammable liquids Labels

Packing instruction (cargo 366

aircraft)

Packing instruction (passen-355

> Mankiewicz Hamburg ISO 9001, TS 16949 EN 9100, ISO 14001 VDA 6.3 Page 18/25



Commercial Product Name: ALEXSEAL P4422-Finish Primer 442

Product No.: 1534098023000

SDS Number: Date of last issue: 06/19/2017 Version Revision Date: 1.6 04/06/2020 F-1534098023 Date of first issue: 07/23/2015

ger aircraft)

IMDG-Code

UN number UN 1263 Proper shipping name **PAINT**

> (trizinc bis(orthophosphate), Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethy-

lenetetramine)

Class 3 Packing group Ш Labels 3 EmS Code <u>F-E</u>, <u>S-E</u> Marine pollutant yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

49 CFR

UN/ID/NA number UN 1263 Proper shipping name **PAINT**

Class 3 Packing group Ш

Class 3 - Flammable liquids Labels

yes(trizinc bis(orthophosphate), Fatty acids, C18-unsatd., Marine pollutant

dimers, oligomeric reaction products with tall-oil fatty acids

and triethylenetetramine)

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards Fire Hazard

> Acute Health Hazard Chronic Health Hazard

Flammable (gases, aerosols, liquids, or solids)

Skin corrosion or irritation

Serious eye damage or eye irritation Respiratory or skin sensitization

Carcinogenicity

Specific target organ toxicity (single or repeated exposure)





>= 0.1 - < 1 %

Commercial Product Name: ALEXSEAL P4422-Finish Primer 442

Product No.: 1534098023000

Revision Date: SDS Number: Date of last issue: 06/19/2017 Version 1.6 04/06/2020 F-1534098023 Date of first issue: 07/23/2015

SARA 313 The following components are subject to reporting levels

established by SARA Title III, Section 313:

propan-2-ol 67-63-0 >= 5 - < 10 % >= 5 - < 10 % trizinc 7779-90-0 bis(orthophospha te) butan-1-ol 71-36-3 >= 1 - < 5 %

xylenes 1330-20-7 >= 1 - < 5 %

100-41-4

zinc oxide 1314-13-2 >= 0.1 - < 1 %

Clean Air Act

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).

ethylbenzene

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

xvlenes 1330-20-7 >= 1 - < 5 % ethylbenzene 100-41-4 >= 0.1 - < 1 %

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

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):

> propan-2-ol 67-63-0 >= 5 - < 10 % n-butyl acetate 123-86-4 >= 5 - < 10 % butanone 78-93-3 >= 5 - < 10 % 71-36-3 butan-1-ol >= 1 - < 5 % >= 1 - < 5 % xylenes 1330-20-7

VOC content excluding 3.64 lb/gal (400 g/l)

water For the calculation of VOC values in this section all substances

have been considered which fall under the definition of VOC according to 40 CFR 51.100. Additionally, the calculation complies with the requirements of SCAQMD Rule 1106.1,

amended February 12, 1999.

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

> >= 5 - < 10 % n-butyl acetate 123-86-4 xvlenes 1330-20-7 >= 1 - < 5 % ethylbenzene 100-41-4 >= 0.1 - < 1 %



Commercial Product Name: ALEXSEAL P4422-Finish Primer 442

Product No.: 1534098023000

Version **Revision Date:** SDS Number: Date of last issue: 06/19/2017 1.6 04/06/2020 F-1534098023 Date of first issue: 07/23/2015

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

> n-butyl acetate 123-86-4 >= 5 - < 10 % >= 1 - < 5 % xylenes 1330-20-7 >= 0.1 - < 1 % ethylbenzene 100-41-4

This product contains the following toxic pollutants listed under the U.S. Clean Water Act Section

307

7779-90-0 >= 5 - < 10 %

bis(orthophosphate)

US State Regulations

Massachusetts Right To Know

limestone	1317-65-3
propan-2-ol	67-63-0
n-butyl acetate	123-86-4
butanone	78-93-3
kaolin	1332-58-7
butan-1-ol	71-36-3
1-methoxypropan-2-ol	107-98-2
xylenes	1330-20-7

Pennsylvania Right To Know

limestone	1317-65-3
propan-2-ol	67-63-0
n-butyl acetate	123-86-4
trizinc bis(orthophosphate)	7779-90-0
butanone	78-93-3
kaolin	1332-58-7
butan-1-ol	71-36-3
1-methoxypropan-2-ol	107-98-2
xylenes	1330-20-7
ethylbenzene	100-41-4
zinc oxide	1314-13-2

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

butanone 78-93-3 ethylbenzene 100-41-4

Washington Chemicals of High Concern

butanone 78-93-3 ethylbenzene 100-41-4

California Prop. 65

WARNING: This product can expose you to chemicals including kaolin, ethylbenzene, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.



Commercial Product Name: ALEXSEAL P4422-Finish Primer 442

Product No.: 1534098023000

Version **Revision Date:** SDS Number: Date of last issue: 06/19/2017 04/06/2020 Date of first issue: 07/23/2015 1.6 F-1534098023

California List of Hazardous Substances

propan-2-ol	67-63-0
n-butyl acetate	123-86-4
trizinc bis(orthophosphate)	7779-90-0
butanone	78-93-3
butan-1-ol	71-36-3
1-methoxypropan-2-ol	107-98-2
xylenes	1330-20-7

California Permissible Exposure Limits for Chemical Contaminants

titanium dioxide	13463-67-7
propan-2-ol	67-63-0
n-butyl acetate	123-86-4
butanone	78-93-3
butan-1-ol	71-36-3
1-methoxypropan-2-ol	107-98-2
xylenes	1330-20-7

California Regulated Carcinogens

kaolin 1332-58-7

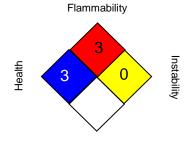
The ingredients of this product are reported in the following inventories:

: All substances listed as active on the TSCA inventory

SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



Special hazard

HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Health

0=Slightly HazardousSlightly Hazardous

2=Hazardous

3=Extreme danger



Commercial Product Name: ALEXSEAL P4422-Finish Primer 442

Product No.: 1534098023000

SDS Number: Date of last issue: 06/19/2017 Version Revision Date: 1.6 04/06/2020 F-1534098023 Date of first issue: 07/23/2015

4=Deadly

Flammability 0=Will not burn

2=Flashpoint below 200 F 3=Flashpoint below 100 F 4=Flashpoint below 73 F

Instability 0=Stable

1=Unstable if heated

2=Violent chemical reaction; water reactive

3=Shock or heat may detonate

4=May detonate

Special hazard SA Simple Asphyxiant ACID Acid **OX** Oxidizer W Water Reactive **CORR** Corrosive

Full text of other abbreviations

ACGIH USA, ACGIH Threshold Limit Values (TLV) **ACGIH BEI** ACGIH - Biological Exposure Indices (BEI)

CA AB OEL Canada. Alberta, Occupational Health and Safety Code (table

2: OEL)

CA BC OEL Canada. British Columbia OEL

Québec. Regulation respecting occupational health and safe-CA QC OEL

ty, Schedule 1, Part 1: Permissible exposure values for air-

borne contaminants

CR BEI Maximum allowable occupational exposure limits in the work-

place - Table 3. Adopted Biological Exposure Indices

CR OEL Costa Rica. Maximum allowable occupational exposure limits

in the workplace.

MX BEI Official Mexican Norm NOM-047-SSA1-2011, Environmental

Health - Biological exposure indices for workers occupational-

ly exposed to chemical agents

USA. NIOSH Recommended Exposure Limits **NIOSH REL**

NOM-010-STPS-2014 Mexico. Norm NOM-010-STPS-2014 on Chemicals Polluting

the Work Environment - Identification, Assessment and Con-

trol - Appendix 1 Occupational Exposure Limits

OSHA PO USA. OSHA - TABLE Z-1 Limits for Air Contaminants -

1910.1000

OSHA Z-1 USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-

its for Air Contaminants

ACGIH / TWA 8-hour, time-weighted average ACGIH / STEL Short-term exposure limit

8-hour Occupational exposure limit CA AB OEL / TWA CA AB OEL / STEL 15-minute occupational exposure limit

8-hour time weighted average CA BC OEL / TWA CA BC OEL / STEL short-term exposure limit

CA BC OEL / C ceiling limit

CA QC OEL / TWAEV Time-weighted average exposure value

CA QC OEL / STEV Short-term exposure value



Commercial Product Name: ALEXSEAL P4422-Finish Primer 442

Product No.: 1534098023000

Version Revision Date: SDS Number: Date of last issue: 06/19/2017 1.6 04/06/2020 F-1534098023 Date of first issue: 07/23/2015

CA QC OEL / C Ceiling

CR OEL / TWA Time weighted average 8-hr value

CR OEL / STEL Short term exposure limit

NIOSH REL / TWA Time-weighted average concentration for up to a 10-hour

workday during a 40-hour workweek

STEL - 15-minute TWA exposure that should not be exceeded NIOSH REL / ST

at any time during a workday

Ceiling value not be exceeded at any time. NIOSH REL / C

NOM-010-STPS-2014 / VLE-Time weighted average limit value

NOM-010-STPS-2014 / VLE- : Short term exposure limit value

CT

OSHA P0 / TWA 8-hour time weighted average OSHA P0 / STEL Short-term exposure limit

OSHA P0 / C Ceiling limit

OSHA Z-1 / TWA 8-hour time weighted average

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC -International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods: IMO - International Maritime Organization: ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship: RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG -United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative



Commercial Product Name: ALEXSEAL P4422-Finish Primer 442

Product No.: 1534098023000

Version **Revision Date:** SDS Number: Date of last issue: 06/19/2017 04/06/2020 F-1534098023 Date of first issue: 07/23/2015 1.6

Revision Date 04/06/2020

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / Z8