

Product Name: ALEXSEAL-Premium Topcoat 501
Product No.: 45075XXXXX000

Revision Date 04/21/2016
Print Date 04/27/2016

Version 1

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name : ALEXSEAL-Premium Topcoat 501
Product No. : 45075XXXXX000
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

GHS Classification

Flammable liquids : Category 3
Skin sensitization : Category 1
Carcinogenicity : Category 2
Reproductive toxicity : Category 1B

GHS Label element

Hazard pictograms :

Signal Word : Danger

Hazard Statements : H226 Flammable liquid and vapor.
H317 May cause an allergic skin reaction.
H351 Suspected of causing cancer.
H360 May damage fertility or the unborn child.

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.

Product Name: ALEXSEAL-Premium Topcoat 501
Product No.: 45075XXXXX000

Revision Date 04/21/2016
Print Date 04/27/2016

Version 1

P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/ eye protection/ face protection.
P281 Use personal protective equipment as required.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P363 Wash contaminated clothing before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage:

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

Hazardous ingredients

CAS-No.	Chemical Name	Concentration (%)
108-65-6	2-methoxy-1-methylethyl acetate	>= 40 - <= 100
110-12-3	5-methylhexan-2-one	>= 5 - < 12.5
1333-86-4	Carbon black	>= 1 - < 5
41556-26-7	BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL)SEBACATE	>= 0.25 - < 0.5
70657-70-4	2-METHOXY-1-PROPYL ACETATE	>= 0.1 - < 0.25
100-41-4	ethylbenzene	>= 0.1 - < 0.25

SECTION 4. FIRST AID MEASURES

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

If inhaled : Remove to fresh air, keep patient warm and at rest.



Product Name: ALEXSEAL-Premium Topcoat 501
Product No.: 45075XXXXX000

Revision Date 04/21/2016
Print Date 04/27/2016

Version 1

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, water spray

Unsuitable extinguishing media : High volume water jet

Specific hazards during fire fighting : 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, protective equipment and emergency procedures : Exclude sources of ignition and ventilate the area.
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.



Product Name: ALEXSEAL-Premium Topcoat 501
Product No.: 45075XXXXX000

Revision Date 04/21/2016
Print Date 04/27/2016

Version 1

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 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 is not a pressure vessel. No smoking. Prevent unauthorized access.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Materials to avoid : Keep away from oxidizing agents and strongly acidic or alkaline materials.

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

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

CAS-No.	Ingredients	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
108-65-6	2-methoxy-1-methylethyl acetate	TWA	50 ppm	US WEEL
110-12-3	5-methylhexan-2-one		100 ml/m3 475 mg/m3	LIMITS FOR AIR CONTAMINANTS (OSHA)
			50 ml/m3	ACGIH
		TWA	50 ppm	ACGIH
		TWA	100 ppm 475 mg/m3	OSHA P1
		TWA	50 ppm	OSHA P0



Product Name: ALEXSEAL-Premium Topcoat 501
Product No.: 45075XXXXX000

Revision Date 04/21/2016
Print Date 04/27/2016

Version 1

			240 mg/m3	
1333-86-4	Carbon black	TWA	3.5 mg/m3	ACGIH
		TWA	3.5 mg/m3	OSHA P1
		TWA	3.5 mg/m3	OSHA P0
		TWA	3.5 mg/m3	NIOSH REL
100-41-4	ethylbenzene		100 ml/m3 435 mg/m3	LIMITS FOR AIR CONTAMINANTS (OSHA)
			100 ml/m3	ACGIH
		TWA	100 ppm	ACGIH
		STEL	125 ppm	ACGIH
		TWA	100 ppm 435 mg/m3	OSHA P1
		TWA	100 ppm 435 mg/m3	OSHA P0
		STEL	125 ppm 545 mg/m3	OSHA P0

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 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



Product Name: ALEXSEAL-Premium Topcoat 501
Product No.: 45075XXXXX000

Revision Date 04/21/2016
Print Date 04/27/2016

Version 1

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
- Odor Threshold : no data available
- pH : no data available
- Melting point/freezing point : no data available
- Boiling point/boiling range : ca. 248 °F (120 °C)
- Flash point : 115.7 °F (46.5 °C)
Method: ISO 2719
- Evaporation rate : no data available
- Flammability (solid, gas) : no data available
- Upper explosion limit : 10 %(V)
- Lower explosion limit : 1 %(V)
- Vapor pressure : ca. 100 hPa
122 °F (50 °C)
- Relative vapor density : no data available
- Relative density : no data available
- Density : ca., 10.0 lb/gal (1.2 g/cm3) 68 °F (20 °C)
- Solubility(ies)
Water solubility : insoluble
- Partition coefficient: n-octanol/water : no data available



Product Name: ALEXSEAL-Premium Topcoat 501
Product No.: 45075XXXXX000

Revision Date 04/21/2016
Print Date 04/27/2016

Version 1

Autoignition temperature : > 752 °F (> 400 °C)

Thermal decomposition : no data available

Viscosity : 8 mm2/s
Viscosity, kinematic : 104 °F (40 °C)

406 mm2/s
73 °F (23 °C)

21 mm2/s
104 °F (40 °C)

406 mm2/s
73 °F (23 °C)

Flow time : 91 s
Cross section: 4 mm
Method: DIN 53211

61 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 reactions : 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 dioxide, smoke, oxides of nitrogen.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Product Name: ALEXSEAL-Premium Topcoat 501
Product No.: 45075XXXXX000

Revision Date 04/21/2016
Print Date 04/27/2016

Version 1

Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg
Method: Calculation method
Acute inhalation toxicity : Acute toxicity estimate : > 40 mg/l
Exposure time: 4 h
Test atmosphere: vapor
Method: Calculation method

Carcinogenicity:

IARC Group 2B: Possibly carcinogenic to humans
Carbon black 1333-86-4
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

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 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

Ecotoxicity

Product:

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

Ingredients:

110-12-3:

Table with bank details (Mankiewicz Gebr. & Co., Deutsche Bank, HypoVereinsbank), contact information, and certification details (Bureau Veritas, ISO 9001, TS 16949, EN 9100).

Product Name: ALEXSEAL-Premium Topcoat 501
Product No.: 45075XXXXX000

Revision Date 04/21/2016
Print Date 04/27/2016

Version 1

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 81.4 mg/l
Exposure time: 96 h

Persistence and degradability

Product:

Biodegradability : Remarks: There are no data available on the preparation itself.

Ingredients:

110-12-3:

Biodegradability : Result: Readily biodegradable.

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: There are no data available on the preparation itself.

Mobility in soil

Product:

Mobility : Remarks: There are no data available on the preparation itself.

Other adverse effects

no data available

Product:

Regulation 40 CFR Protection of Environment; Part 82 Protection 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 information : 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 regulation

IATA-DGR

Mankiewicz Gebr. & Co. (GmbH & Co. KG)
Georg-Wilhelm-Straße 189
21107 Hamburg (Wilhelmsburg)
Tel.: +49 (0) 40 / 75 10 30
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	DEUTDEH33XXX	DE58 2007 0000 0600 2273 00
HypoVereinsbank	Hamburg	59273300	200 300 00	HYVEDE33300	DE34 2003 0000 0059 2733 00
Postbank	Hamburg	373205	200 100 20	PBNKDEFF200	DE85 2001 0020 0000 3732 05

Sitz/Registriergericht Hamburg: HRA 42442
Persönlich haftende Gesellschafterin:
Grau Gebr. Beteiligungs-GmbH
Sitz/Registriergericht Hamburg: HRB 17189
Geschäftsführender Gesellschafter:
Michael O. Grau
Bureau Veritas
Certification:
ISO 9001,
TS 16949,
EN 9100



Product Name: ALEXSEAL-Premium Topcoat 501
Product No.: 45075XXXXX000

Revision Date 04/21/2016
Print Date 04/27/2016

Version 1

UN/ID No. : UN 1263
Proper shipping name : PAINT
Class : 3
Packing group : III
Labels : Flammable Liquids
Packing instruction (cargo aircraft) : 366
Packing instruction (passenger aircraft) : 355

IMDG-Code

UN number : UN 1263
Proper shipping name : PAINT
Class : 3
Packing group : III
Labels : 3
EmS Code : F-E, S-E
Marine pollutant : no

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 : III
Labels : FLAMMABLE LIQUID
Marine pollutant : no
Remarks : 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. Receptacles with less than 30 litres capacity, are not subject to the regulations of IMDG chapters 4.1, 5.2 and 6.1 (see IMDG 2.3.2.5)

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

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

Product Name: ALEXSEAL-Premium Topcoat 501
Product No.: 45075XXXXX000

Revision Date 04/21/2016
Print Date 04/27/2016

Version 1

SARA 302 : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

100-41-4 ethylbenzene 0.1 %

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).

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

1330-20-7 xylene 0.7 %
100-41-4 ethylbenzene 0.1 %

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 SOCM Intermediate or Final VOC's (40 CFR 60.489):

1330-20-7 xylene 0.7 %
123-86-4 n-butyl acetate 0.3 %
100-41-4 ethylbenzene 0.1 %
111-90-0 2-(2-ethoxyethoxy)ethanol 0.0 %

Clean Water Act

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

123-86-4 n-butyl acetate 0.3 %

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

123-86-4 n-butyl acetate 0.3 %

Massachusetts Right To Know

110-12-3 5-methylhexan-2-one
1333-86-4 Carbon black

Pennsylvania Right To Know

110-12-3 5-methylhexan-2-one
1333-86-4 Carbon black
1330-20-7 xylene
123-86-4 n-butyl acetate
100-41-4 ethylbenzene

New Jersey Right To Know

110-12-3 5-methylhexan-2-one
1333-86-4 Carbon black



Product Name: ALEXSEAL-Premium Topcoat 501
Product No.: 45075XXXXX000

Revision Date 04/21/2016
Print Date 04/27/2016

Version 1

100-41-4 ethylbenzene

California Prop 65

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

1333-86-4 Carbon black
100-41-4 ethylbenzene

US Federal Regulations

Volatile organic compounds (VOC) content : 4.91 lb/gal (0.59 g/cm3)

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.

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

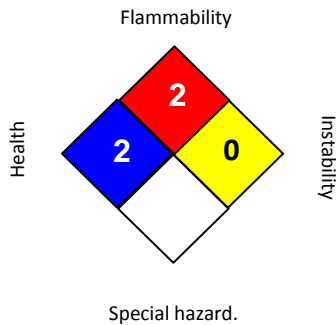
TSCA : All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

The information given in this material safety data sheet does not release the user from its duty of risk assessment and control in the work place defined in other health and safety law., Adhere to the national sanitary and occupational safety regulations when using this product.
This SDS have been created to comply with The Hazard Communication Standard (HCS)(29 CFR 1910.1200).

SECTION 16. OTHER INFORMATION

Further information

NFPA:



HMIS III:

HEALTH	2 *
FLAMMABILITY	2
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Health
0= Slightly Hazardous Slightly Hazardous
2= Hazardous
3= Extreme danger
4= Deadly

Flammability
0= Will not burn
2= Flashpoint below 200 F

Product Name: ALEXSEAL-Premium Topcoat 501
Product No.: 45075XXXXX000

Revision Date 04/21/2016
Print Date 04/27/2016

Version 1

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

Revision Date : 04/21/2016

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.

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