

SAFETY DATA SHEET



Commercial Product Name: ALEXIT-FST Strukturlack 346-65/topcoat  
Product No.: 346657A007000

Version 1.7      Revision Date: 09/21/2019      SDS Number: F-346657A007      Date of last issue: 04/18/2019  
Date of first issue: 03/15/2016

SECTION 1. IDENTIFICATION

Product name : ALEXIT-FST Strukturlack 346-65/topcoat 7A00 light grey semi-gloss

Product number : 346657A007000

**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](mailto: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**

Not a hazardous substance or mixture.

**GHS label elements**

Not a hazardous substance or mixture.

**Other hazards**

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Mixture of synthetic resins, water and pigments

Components

Chemical name	CAS-No.	Concentration (% w/w)
titanium dioxide	13463-67-7	>= 12.5 - < 20
2-butoxyethanol	111-76-2	>= 1 - < 5
POLYETHER	Not Assigned	>= 1 - < 5

Actual concentration is withheld as a trade secret

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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. 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.



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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.
- 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 : Keep away from ignition sources and provide for good ventilation.
- Advice on safe handling : Comply with the health and safety at work laws.  
In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded.  
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 : 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.  
Avoid cooling to under 32°F.
- Materials to avoid : Keep away from oxidizing agents and strongly acid or alkaline materials.
- Recommended storage temperature : 41 - 95 °F / 5 - 35 °C

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
titanium dioxide	13463-67-7	TWA	10 mg/m3	CR OEL
	Further information: Not classifiable as a human carcinogen, Lower Respiratory Tract irritation			
		TWA	10 mg/m3	CA AB OEL
		TWA (Total dust)	10 mg/m3	CA BC OEL
		TWA (respirable dust fraction)	3 mg/m3	CA BC OEL
		TWAEV (total dust)	10 mg/m3	CA QC OEL
		VLE-PPT	10 mg/m3	NOM-010-STPS-2014
		TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (Total dust)	10 mg/m3	OSHA P0
2-butoxyethanol	111-76-2	TWA	20 ppm	CR OEL
	Further information: Confirmed animal carcinogen, Substances for which there is a Biological Exposure Index or Indices (see BEI section), Eye irritation, Upper Respiratory Tract irritation			
		TWA	20 ppm 97 mg/m3	CA AB OEL
		TWA	20 ppm	CA BC OEL
		TWAEV	20 ppm 97 mg/m3	CA QC OEL
		VLE-PPT	20 ppm	NOM-010-STPS-2014
		TWA	20 ppm	ACGIH
		TWA	5 ppm 24 mg/m3	NIOSH REL
		TWA	50 ppm 240 mg/m3	OSHA Z-1
		TWA	25 ppm 120 mg/m3	OSHA P0

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
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2-butoxyethanol	111-76-2	Butoxyacetic acid (BAA)	Urine	End of shift	200 mg/g Creatinine	MX BEI
		Butoxyacetic acid (BAA)	Urine	End of shift (As soon as possible after exposure ceases)	200 mg/g Creatinine	ACGIH BEI
		Butoxyacetic acid (BAA)	Urine	End of shift	200 mg/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 concentrations of particulates and below the OEL (= Occupational Exposure Limit), 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.

**MANKIEWICZ**  
Coating Concepts of the Future

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Mankiewicz Coatings LLC** Tel: +1 (843) 654 7755 [www.mankiewicz.com](http://www.mankiewicz.com) South Carolina Sales Tax Exempt  
1200 Charleston Regional Parkway Fax: +1 (843) 654 7759 [www.alexseal.com](http://www.alexseal.com) Certificate Number: 1957423-000  
Charleston, SC 29492, USA

Mankiewicz Hamburg:  
ISO 9001, TS 16949,  
EN 9100, ISO 14001  
VDA 6.3



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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:

- Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg  
Method: Calculation method
- Acute inhalation toxicity : Acute toxicity estimate: > 200 mg/l  
Exposure time: 4 h  
Test atmosphere: vapor  
Method: Calculation method
- Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg  
Method: Calculation method

Components:

2-butoxyethanol:

- Acute oral toxicity : LD50 (Rat): 1,300 mg/kg
- Acute dermal toxicity : LD50 (Rabbit): > 400 - 2,000 mg/kg

Carcinogenicity

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- IARC

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- 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

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.

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.

Persistence and degradability

Product:

Biodegradability

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

Bioaccumulative potential

Product:

Bioaccumulation

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

Mobility in soil

Product:



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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 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 Regulations

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

Not regulated as a dangerous good

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.

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**SARA 311/312 Hazards** : Acute Health Hazard  
Chronic Health Hazard  
No SARA Hazards

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

2-butoxyethanol	111-76-2	>= 1 - < 5 %
2-(2-butoxyethoxy)ethanol	112-34-5	< 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).  
This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).  
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).

2-butoxyethanol	111-76-2	>= 1 - < 5 %
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**Clean Water Act**  
The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

ammonia, aqueous solution	1336-21-6	>= 0 - < 0.1 %
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The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

ammonia, aqueous solution	1336-21-6	>= 0 - < 0.1 %
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This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

Massachusetts Right To Know

2-butoxyethanol	111-76-2
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Pennsylvania Right To Know

2-butoxyethanol	111-76-2
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

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ardous 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

Revision Date : 09/21/2019

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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Product does not contain any listed chemicals

California Prop. 65

WARNING: This product can expose you to chemicals including Distillates (petroleum), hydrotreated heavy paraffinic, which is/are known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

California List of Hazardous Substances

2-butoxyethanol 111-76-2

California Permissible Exposure Limits for Chemical Contaminants

titanium dioxide 13463-67-7  
2-butoxyethanol 111-76-2

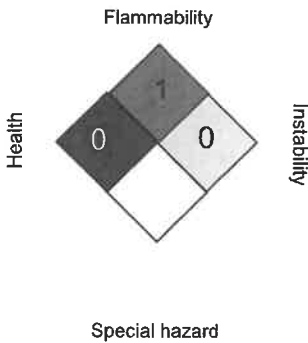
The ingredients of this product are reported in the following inventories:

TSCA : All substances listed as active on the TSCA inventory

SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



HMIS® IV:

HEALTH		2
FLAMMABILITY		1
PHYSICAL HAZARD		0

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 Hazardous  
2=Hazardous  
3=Extreme danger  
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



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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
- CA QC OEL : Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for air-borne contaminants
- CR BEI : Maximum allowable occupational exposure limits in the workplace - 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 occupationally exposed to chemical agents
- NIOSH REL : USA. NIOSH Recommended Exposure Limits
- NOM-010-STPS-2014 : Mexico. Norm NOM-010-STPS-2014 on Chemicals Polluting the Work Environment - Identification, Assessment and Control - Appendix 1 Occupational Exposure Limits
- OSHA P0 : USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
- OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
- ACGIH / TWA : 8-hour, time-weighted average
- CA AB OEL / TWA : 8-hour Occupational exposure limit
- CA BC OEL / TWA : 8-hour time weighted average
- CA QC OEL / TWA EV : Time-weighted average exposure value
- CR OEL / TWA : Time weighted average 8-hr value
- NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
- NOM-010-STPS-2014 / VLE-PPT : Time weighted average limit value
- OSHA P0 / TWA : 8-hour time weighted average
- OSHA Z-1 / TWA : 8-hour time weighted average

AIICS - 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 Haz-