

# SAFETY DATA SHEET

Commercial Product Name: ALEXSEAL F9016-Flat Finish 555  
Product No.: 471FF9016U000

Version 1.1      Revision Date: 01/29/2020      SDS Number: F-471FF9016U      Date of last issue: 01/17/2020  
Date of first issue: 01/17/2020

## SECTION 1. IDENTIFICATION

Product name : ALEXSEAL F9016-Flat Finish 555 RAL 9016 verkehrsweiß / traffic white Flat

Product number : 471FF9016U000

### 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 3

Skin sensitization : Category 1

Specific target organ toxicity - single exposure : Category 3 (Central nervous system)

### GHS label elements

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H226 Flammable liquid and vapor.  
H317 May cause an allergic skin reaction.

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H336 May cause drowsiness or dizziness.

**Precautionary Statements**

**Prevention:**

- 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/ equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
- 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/ 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.
- 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 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	>= 20 - < 25



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n-butyl acetate	123-86-4	$\geq 5 - < 12.5$
calcium carbonate	471-34-1	$\geq 5 - < 12.5$
2-methoxy-1-methylethyl acetate	108-65-6	$\geq 1 - < 5$
Solvent naphtha (petroleum), heavy arom.	64742-94-5	$\geq 1 - < 5$
silica gel	112926-00-8	$\geq 1 - < 5$
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	41556-26-7 82919-37-7	$\geq 0.5 - < 1$
reaction mass of a-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-w-hydroxypoly(oxyethylene) and a-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-w-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)	104810-47-1 104810-48-2	$\geq 0.25 - < 0.5$

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, 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 : For information on symptoms and effects refer to Section 2

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and effects, both acute and delayed : Hazard statements and Section 11 Toxicological Information.

Notes to physician : No information available.

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## SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Alcohol resistant foam, CO2, powders
- 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.

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## 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 when transferring from one container to another.  
Operators should wear anti-static footwear and clothing. No



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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 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.

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

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

## 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 (to-	10 mg/m3	CA QC OEL



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		tal dust)		
		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
n-butyl acetate	123-86-4	TWA	50 ppm	CR OEL
	Further information: Eye irritation, Upper Respiratory Tract irritation			
		STEL	150 ppm	CR OEL
	Further information: Eye irritation, Upper Respiratory Tract irritation			
		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
		TWA	150 ppm 710 mg/m3	NIOSH REL
		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
calcium carbonate	471-34-1	TWAEV (total dust)	10 mg/m3	CA QC OEL
		TWA	10 mg/m3 (Calcium carbonate)	CA AB OEL
2-methoxy-1-methylethyl acetate	108-65-6	TWA	50 ppm	CA BC OEL
		STEL	75 ppm	CA BC OEL
		TWA	50 ppm 270 mg/m3	CA ON OEL



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Solvent naphtha (petroleum), heavy arom.	64742-94-5	TWA	50 ppm	US WEEL
		TWA	200 mg/m3 (total hydrocarbon vapor)	CR OEL
Further information: Confirmed animal carcinogen, Risk of cutaneous absorption, Central Nervous System impairment, Skin irritation, Upper Respiratory Tract irritation, Application restricted to conditions in which there are negligible aerosol exposures				
		TWA	200 mg/m3 (total hydrocarbon vapor)	ACGIH
		TWA	200 mg/m3 (total hydrocarbon vapor)	CA AB OEL
silica gel	112926-00-8	TWAEV (respirable dust)	6 mg/m3	CA QC OEL
		TWA (Respirable)	1.5 mg/m3	CA BC OEL
		TWA (Total)	4 mg/m3	CA BC OEL
		TWA	6 mg/m3	OSHA P0
		TWA (Dust)	20 Million particles per cubic foot (Silica)	OSHA Z-3
		TWA (Dust)	80 mg/m3 / %SiO2 (Silica)	OSHA Z-3

**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



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- 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
- pH : 6 - 8
- Boiling point/boiling range : ca. 248 °F / 120 °C
- Flash point : 95 °F / 35 °C  
Method: ISO 13736
- Upper explosion limit / Upper flammability limit : 10 %(V)
- Lower explosion limit / Lower : 1 %(V)





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flammability limit

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

Density : ca. 12.5 lb/gal (1.5 g/cm<sup>3</sup>)  
(68 °F / 20 °C)

Solubility(ies)  
Water solubility : insoluble

Autoignition temperature : > 752 °F / > 400 °C

Viscosity  
Flow time : > 150 s  
Cross section: 4 mm  
Method: DIN 53211  
  
> 100 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

### Carcinogenicity

**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



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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.

#### Components:

#### Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.97 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 20 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 1.68 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: The product has low solubility in the test medium. An aqueous dispersion was tested.

Toxicity to daphnia and other aquatic invertebrates (Chron- : NOEC (Daphnia magna (Water flea)): 1 mg/l  
Exposure time: 21 d



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ic toxicity) Method: OECD Test Guideline 211  
Remarks: The product has low solubility in the test medium.  
An aqueous dispersion was tested.

## Persistence and degradability

### Product:

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

## 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 manufac-  
tured 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- : There are no data available on the preparation itself.  
mation

The product should not be allowed to enter drains or water  
courses.

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## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : Dispose of in accordance with local regulations.



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## SECTION 14. TRANSPORT INFORMATION

### International Regulations

#### IATA-DGR

UN/ID No. : UN 1263  
Proper shipping name : PAINT  
Class : 3  
Packing group : III  
Labels : Class 3 - 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 : Class 3 - Flammable liquids  
Marine pollutant : no

### 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.



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**SARA 311/312 Hazards** : Flammable (gases, aerosols, liquids, or solids)  
Respiratory or skin sensitization  
Specific target organ toxicity (single or repeated exposure)

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

## 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).

n-butyl acetate	123-86-4	>= 10 - < 20 %
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## 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	>= 10 - < 20 %
xylenes	1330-20-7	>= 0 - < 0.1 %
ethylbenzene	100-41-4	>= 0 - < 0.1 %
toluene	108-88-3	>= 0 - < 0.1 %

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

n-butyl acetate	123-86-4	>= 10 - < 20 %
xylenes	1330-20-7	>= 0 - < 0.1 %
ethylbenzene	100-41-4	>= 0 - < 0.1 %
toluene	108-88-3	>= 0 - < 0.1 %

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

n-butyl acetate	123-86-4
silica gel	112926-00-8

### Pennsylvania Right To Know

n-butyl acetate	123-86-4
Solvent naphtha (petroleum), heavy arom.	64742-94-5
silica gel	112926-00-8

### Maine Chemicals of High Concern

toluene	108-88-3
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## Vermont Chemicals of High Concern

ethylbenzene	100-41-4
2-ethylhexanoic acid	149-57-5
toluene	108-88-3

## Washington Chemicals of High Concern

ethylbenzene	100-41-4
2-ethylhexanoic acid	149-57-5
toluene	108-88-3

## California Prop. 65

WARNING: This product can expose you to chemicals including ethylbenzene, which is/are known to the State of California to cause cancer, and toluene, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

## California List of Hazardous Substances

n-butyl acetate	123-86-4
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## California Permissible Exposure Limits for Chemical Contaminants

titanium dioxide	13463-67-7
n-butyl acetate	123-86-4
calcium carbonate	471-34-1
2-methoxy-1-methylethyl acetate	108-65-6

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

TSCA : All substances listed as active on the TSCA inventory



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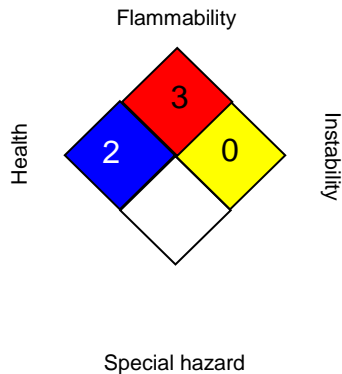
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## SECTION 16. OTHER INFORMATION

### Further information

#### NFPA 704:



#### HMIS® IV:

HEALTH	/	2
FLAMMABILITY		3
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 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  
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)  
CA AB OEL : Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)  
CA BC OEL : Canada. British Columbia OEL  
CA ON OEL : Ontario Table of Occupational Exposure Limits made under the Occupational Health and Safety Act.  
CA QC OEL : Québec. Regulation respecting occupational health and safe-

# SAFETY DATA SHEET



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Product No.: 471FF9016U000

Version	Revision Date:	SDS Number:	Date of last issue: 01/17/2020
1.1	01/29/2020	F-471FF9016U	Date of first issue: 01/17/2020

ty, Schedule 1, Part 1: Permissible exposure values for airborne contaminants

CR OEL : Costa Rica. Maximum allowable occupational exposure limits in the workplace.

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

OSHA Z-3 : USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts

US WEEL : USA. Workplace Environmental Exposure Levels (WEEL)

ACGIH / TWA : 8-hour, time-weighted average

ACGIH / STEL : Short-term exposure limit

CA AB OEL / TWA : 8-hour Occupational exposure limit

CA AB OEL / STEL : 15-minute occupational exposure limit

CA BC OEL / TWA : 8-hour time weighted average

CA BC OEL / STEL : short-term exposure limit

CA ON OEL / TWA : Time-Weighted Average Limit (TWA)

CA QC OEL / TWA EV : Time-weighted average exposure value

CA QC OEL / STEV : Short-term exposure value

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

NIOSH REL / ST : STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday

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

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

OSHA P0 / TWA : 8-hour time weighted average

OSHA P0 / STEL : Short-term exposure limit

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

OSHA Z-3 / TWA : 8-hour time weighted average

US WEEL / TWA : 8-hr TWA

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





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- 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 : 01/29/2020

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

