

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 10/20/2022 Revision date: 10/20/2022 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form Product name	: Mixture : Royaltherm 1411A, 1721
1.2. Recommended use and restrictions on	use
Use of the substance/mixture Restrictions on use	Polymer preparations and compoundsNone known
1.3. Supplier	
Lion Elastomers P.O. Box 397 Geismar, LA, 70734 T 800-321-9001	
1.4. Emergency telephone number	
Emergency number	: Chemtrec 800-424-9300 International (703) 527-3887
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or mixt	ıre
GHS US classification	
Not classified.	
2.2. GHS Label elements, including precaut	ionary statements
GHS US labeling No labeling applicable	
2.3. Other hazards which do not result in cl	assification
No additional information available	
2.4. Unknown acute toxicity (GHS US)	
Not applicable	
SECTION 3: Composition/Information of	on ingredients
3.1. Substances	
Not applicable	
3.2. Mixtures	
Name	Product identifier % GHS US classification
Zinc oxide (ZnO)	CAS-No.: 1314-13-2 3 – 9 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2H-Benzimidazole-2-thione, 1,3-dihydro-4(or 5)-met	hyl- CAS-No.: 53988-10-6 1 – 3 Acute Tox. 4 (Oral), H302

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Name	Product identifier	%	GHS US classification
Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, 2,2-bis[[3- [3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]methyl]-1,3- propanediyl ester	CAS-No.: 6683-19-8	< 2	Acute Tox. 4 (Inhalation:dust,mist), H332

Full text of hazard classes and H-statements : see section 16

1. Description of first aid measures	
st-aid measures general	: If you feel unwell, seek medical advice (show the label where possible).
aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
aid measures after skin contact	: Wash skin with plenty of water.
aid measures after eye contact	: Rinse eyes with water as a precaution.
t-aid measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.

Symptoms/effects

: Not expected to present a significant hazard under anticipated conditions of normal use.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures		
5.1. Suitable (and unsuitable) extinguishing media		
Suitable extinguishing media Unsuitable extinguishing media	: Water spray. Dry powder. Foam. : Not determined.	
5.2. Specific hazards arising from the chemical		
Hazardous decomposition products in case of fire	: Toxic fumes may be released.	
5.3. Special protective equipment and precautions for fire-fighters		
Firefighting instructions Protection during firefighting	 Exercise caution when fighting any chemical fire. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. 	

SECTION 6: Accidental release measures			
6.1. Personal precautions, protective equipment and emergency procedures			
6.1.1. For non-emergency personnel Emergency procedures	: Ventilate spillage area.		
6.1.2. For emergency responders			
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".		
6.2. Environmental precautions			

Avoid release to the environment.

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6.3. Methods and material for containment and cleaning up		
Methods for cleaning up Other information	Mechanically recover the product.Dispose of materials or solid residues at an authorized site.	
6.4. Reference to other sections		

For further information refer to section 13.

SECTION 7: Handling and storage)	
7.1. Precautions for safe handling		
Precautions for safe handling Hygiene measures	 Ensure good ventilation of the work station. Wear personal protective equipment. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. 	
7.2. Conditions for safe storage, including any incompatibilities		

Storage conditions

: Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Royaltherm 1411A, 1721			
No additional information available			
Bicyclo[2.2.1]hept-2-ene, 5-ethylidene-, polymer with ethene and 1-propene (25038-36-2)			
No additional information available			
Silica, amorphous, precipitated and gel (1129	Silica, amorphous, precipitated and gel (112926-00-8)		
No additional information available	No additional information available		
Siloxanes and Silicones, dimethyl, methyl vin	yl (67762-94-1)		
No additional information available			
Residual oils, petroleum, solvent-dewaxed (64	4742-62-7)		
No additional information available			
Zinc oxide (ZnO) (1314-13-2)			
USA - ACGIH - Occupational Exposure Limits			
ACGIH OEL TWA	2 mg/m³ (respirable particulate matter)		
ACGIH OEL STEL	10 mg/m ³ (respirable particulate matter)		
USA - OSHA - Occupational Exposure Limits			
OSHA PEL (TWA) [1]	5 mg/m³ (fume) 15 mg/m³ (total dust) 5 mg/m³ (respirable fraction)		
Siloxanes and silicones, dimethyl, hydroxy-terminated (70131-67-8)			
No additional information available			

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2H-Benzimidazole-2-thione, 1,3-dihydro-4(or 5)-methyl- (53988-10-6)		
No additional information available		
Polysulfides, bis[3-(triethoxysilyl)pro	opyl] (211519-85-6)	
No additional information available		
Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, 2,2-bis[[3-[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]-1- oxopropoxy]methyl]-1,3-propanediyl ester (6683-19-8)		
No additional information available		
8.2. Appropriate engineering controls	S	
Appropriate engineering controls Environmental exposure controls	Ensure good ventilation of the work station.Avoid release to the environment.	
8.3. Individual protection measures/F	Personal protective equipment	
Hand protection:		
Protective gloves		
Eye protection:		
Safety glasses		
Skin and body protection:		
Wear suitable protective clothing		
Respiratory protection:		
In case of insufficient ventilation, wear suitable respiratory equipment		



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state		Solid
Appearance		Solid.
Color	:	Off-white White
Odor	:	Characteristic
Odor threshold	:	No data available
pН	:	No data available
Melting point	:	No data available
Freezing point	:	Not applicable
Boiling point	:	No data available
Flash point	:	Not applicable
Relative evaporation rate (butyl acetate=1)	:	No data available
Flammability (solid, gas)	:	Non flammable.
Vapor pressure	:	No data available
Relative vapor density at 20 °C	:	No data available
Relative density	:	No data available

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Density		900 – 1200 kg/m³
Solubility	:	No data available
Partition coefficient n-octanol/water (Log Pow)	:	No data available
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	No data available
Viscosity, kinematic	:	Not applicable
Viscosity, dynamic	:	30 – 70 Mooney
Explosion limits	:	Not applicable
Explosive properties	:	No data available
Oxidizing properties	:	No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity		
10.1. Reactivity		
The product is non-reactive under normal conditions of use, storage and transport.		
10.2. Chemical stability		
Stable under normal conditions.		
10.3. Possibility of hazardous reactions		
No dangerous reactions known under normal condition	ns of use.	
10.4. Conditions to avoid		
None under recommended storage and handling cond	itions (see section 7).	
10.5. Incompatible materials		
Strong oxidizing agents.		
10.6. Hazardous decomposition products		
Under normal conditions of storage and use, hazardous decomposition products should not be produced.		
SECTION 11: Toxicological information		
11.1. Information on toxicological effects		
Acute toxicity (oral)	Not classified.	
Acute toxicity (dermal) Acute toxicity (inhalation)	Not classified.	
	. 1101 0/033011/54.	
Zinc oxide (ZnO) (1314-13-2)		
LD50 oral rat	> 5000 mg/kg	
2H-Benzimidazole-2-thione, 1,3-dihydro-4(or	5)-methyl- (53988-10-6)	
LD50 oral rat	340 mg/kg	
ATE US (oral)	340 mg/kg body weight	

 Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, 2,2-bis[[3-[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]methyl]-1,3-propanediyl ester (6683-19-8)

 LD50 oral rat
 > 10250 mg/kg

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Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, 2,2-bis[[3-[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]-1- oxopropoxy]methyl]-1,3-propanediyl ester (6683-19-8)		
LD50 dermal rabbit	> 3160 mg/kg	
LC50 Inhalation - Rat	> 1.95 mg/l/4h	
ATE US (dust, mist)	1.5 mg/l/4h	
Skin corrosion/irritation	: Not classified.	
Serious eye damage/irritation	: Not classified.	
Respiratory or skin sensitization	: Not classified.	
Germ cell mutagenicity	: Not classified.	
Carcinogenicity	: Not classified.	
Reproductive toxicity	: Not classified.	
STOT-single exposure	: Not classified.	
STOT-repeated exposure	: Not classified.	
Aspiration hazard	: Not classified.	
/iscosity, kinematic	: Not applicable	
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.	

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general

: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

Zinc oxide (ZnO) (1314-13-2)		
LC50 - Fish [1]	1.55 mg/l (Exposure time: 96 h - Species: Danio rerio [static])	
Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, 2,2-bis[[3-[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]methyl]-1,3-propanediyl ester (6683-19-8)		
LC50 - Fish [1]	> 100 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])	
LC50 - Fish [2]	> 100 mg/l (Exposure time: 96 h - Species: Brachydanio rerio)	

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

2H-Benzimidazole-2-thione, 1,3-dihydro-4(or 5)-methyl- (53988-10-6)				
Partition coefficient n-octanol/water (Log Pow)	0.3 – 0.4 (at 25 °C (at pH 5.8)			
Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, 2,2-bis[[3-[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]methyl]-1,3-propanediyl ester (6683-19-8)				
Partition coefficient n-octanol/water (Log Pow)	23 (at 25 °C)			
12.4. Mobility in soil				

No additional information available

12.5. Other adverse effects

No additional information available

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SECTION 13: Disposal considerations		
13.1. Disposal methods		
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.	
SECTION 14: Transport information		
In accordance with DOT / IMDG / IATA		
14.1. UN number		
Not regulated for transport		
14.2. UN proper shipping name		
Proper Shipping Name (DOT) Proper Shipping Name (TDG) Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	 Not applicable Not applicable Not applicable Not applicable Not applicable 	
14.3. Transport hazard class(es)		
DOT Transport hazard class(es) (DOT)	: Not applicable	
IMDG Transport hazard class(es) (IMDG)	: Not applicable	
IATA Transport hazard class(es) (IATA)	: Not applicable	
14.4. Packing group		
Packing group (DOT) Packing group (IMDG) Packing group (IATA)	Not applicableNot applicableNot applicable	
14.5. Environmental hazards		
Other information	: No supplementary information available.	
14.6. Special precautions for user		
DOT No data available		
IMDG No data available		
IATA No data available		
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code		
Not applicable		

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SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

No additional information available

15.3. US State regulations

Component	State or local regulations
Zinc oxide (ZnO)(1314-13-2)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List; U.S Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

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Full text of H-phrases	
H302	Harmful if swallowed
H332	Harmful if inhaled
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

Safety Data Sheet (SDS), USA - HSI

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