

MATERIAL SAFETY DATA SHEET

Product Identifier: FLAMMADUR® R312, R380
Use of the Substance/Preparation: sealant preparation for multiple applications
Supplier: Fire Protection Technologies, Inc., Suite 160 8000 Research Forest Drive The Woodlands, TX 77382
Telephone: Phone: (818) 730-7749 FAX: (936) 271-4114
Emergency Number: (818) 730-7749

INFORMATION ON COMPOSITION

Description: swell modules
Chemical Characterization (Preparation): pressed sponge of viscose material.

	CAS	Name	Content	Unit	Label

Risk Phrases for Hazardous Ingredients:

HAZARD IDENTIFICATION

No environment hazards

FIRST AID MEASURES

General Instructions No special measures required
Inhalation None
Skin Contact None
Eye Contamination Use water only
Ingestion none
Notes to the Physician none

FIRE FIGHTING MEASURES

Suitable Extinguishing Media No restriction
Extinguishing Media not to be used None
Hazardous Combustion Products
Specific Personal Protection for Fire-Fighting No special measures required

ACCIDENTAL RELEASE MEASURES

Personal Safety Measures: Not required
Environmental Protection Measures
Procedures for Cleaning up Pick-up mechanical
Additional Information

HANDLING AND STORAGE

Handling Keep separated from food stuffs
Fire and Explosion Protection
Storage
Recommended Storing Conditions Keep in a dry place
Storage Segregation
Additional Information
Storage Class

EXPOSURE LIMITING MEASURES AND PERSONAL PROTECTIVE EQUIPMENT

Information for Plant Design
Ingredients with Exposure Limits
to be monitored
Environmental Exposure
Controls
Personal Protection

No data available

- Respiratory
- Eye Protection
- Hand Protection
- Skin Protection
- General Protection Measures

Keep separated from food and drink stuffs

PHYSICAL AND CHEMICAL PROPERTIES

State: solid
Color: pale yellow
Odor: none
Appearance: strips

	Value/Range	Unit	Method (67/548/EG)
Phase Transition			
Boiling Point/Range			
Melting Point/Range			
Flash Point	N/A		
Flammability			
Ignition Temperature	N/A		
Auto-flammability			
Fire Supporting Properties			
Danger of Explosion	N/A		
Explosion Limit (upper)			
Explosion Limit (lower)			
Vapor Pressure at 20°C	N/A		
Density at 20°C	N/A		
Bulk Density at 20°C	N/A		
Solubility in Water at 20°C	Insoluble, swelling		
pH at 20°C	n.d.		
Partition Coefficient in Octanol/Water			
Dyn. Viscosity at 20°C			
Kin. Viscosity at 20°C	N/A		
Solvent Separation Test			
Solvent Content			

STABILITY AND REACTIVITY

Conditions to Avoid None
Materials to Avoid None
Hazardous Decomposition Products none

Additional Information No decomposition with recommended use

TOXICOLOGICAL INFORMATION

Acute Toxicity Data for substance 1
LD/LC₃₀ values relevant for classification

Resorption	Value/Range	Species	Method
Oral			
Dermal			
Inhalative			

Specific Symptoms observed in Animal Tests:

Primary Irritation

	Effect	Species	Method
Skin			
Eye			

Sensitization:

	Effect	Species	Method
Skin			
Respiratory			

Effect after Prolonged and/or Exposure:
Carcinogenic, Mutagenic or Teratogenic Potential:
Additional Information

Practical Experience:

Observations Relevant to Classification:
General Remark:with appropriate handling there are no known hazards to health after several years experience

ECOLOGICAL INFORMATION

Information on Elimination

Procedure
Analytical Methods
Degree of Elimination
Classification
Text of Assessment
Additional Information:

Information on Environmental Behavior

Ingredients
Mobility and Potential of bioaccumulation
Additional Information

Ecology Toxicity

Aquatic Toxicity
Remark
Behavior in waste water treatment plants
Remarks
Assessments according to ISO 8192 B:
Additional Information

Further Ecological Remarks

CBSB₅ – Value:
BSB-Value:
AOX-Value:
Preparation contains the following heavy metals and Substances mentioned by EG-Guideline No. 76/464/EWG
General Remarks:

DISPOSAL

Product disposal

Recommendation	No special waste, remove according to the local official recommendation
Waste No. (EWC)	200301
Waste Name	Normal waste
Proof Requirement	none

Density	
Unit	

Contaminated Packages

Recommendation	
Waste-No.	200301
Waste Name:	Normal waste
Proof requirement	None
Recommended cleansing agent	

TRANSPORTATION INFORMATION

Land Transport ADR/RID and GGVS/GGVE

ADR/RID/GGVS/GGVE	
Warning Plate	no
Hazard No.	
Substance No.	
Name	
Remarks	No dangerous cargo
Hazard Sheet 1	

Transport by Ship AND/ADNR

ADN/ADNR-Class	
Number Character	
Category	
Name	
Remarks	No dangerous cargo

Naval Transport AND/ADNR

IMDG/GGVSee-Class	
UN-Nr.	
PG	
EMS-No.	
MFAG	
Marine pollutant	
Correct Tech. Name	
Remarks	No dangerous cargo

Air Transport ICAO-TI and IATA-DGR

ICAO/IATA-Class	
UN/ID-No.	
PG	
Correct Tech. Name	
Remarks	No dangerous cargo

Additional Information: No hazardous cargo; keep separated from food stuffs

REGULATORY INFORMATION

Labeling according to EG-Regulation

Labeling and Hazard Identification of the Substance/Preparation:		
Hazardous Ingredients to Indicate: contains		

R-Phases		
S-Phases	keep separated from food stuffs	
Special Labeling of selected Preparations		

ADDITIONAL INFORMATION

The information given in this publication is based on the present state of our knowledge. The above data, Indications and recommendations may be altered at a later date and are without legal liability.

Department Responsible for Edition: Technology
Telephone: **++49-(0)561-5801-334**

PREPARATION INFORMATION

Prepared by Preparation Date: Telephone: Internet Address: General Abbreviations:	Fire Protection Technologies, Inc. Date: April 1, 2009 Phone: (818) 730-7749 FAX: (936) 271-4114 www.fptm-flammadur.com % (wt.) = Weight Percentage ACGIH = American Conference of Governmental Industrial Hygienists CAS Number = Chemical Abstract Series Number DSL = Domestic Substance List in Canada H =Hours HMIS =Hazardous Material Identification System IARC = International Agency for Research on Cancer LC ₅₀ = Lethal Concentration, 50% LD ₅₀ =Lethal Dose, 50% MSHA = Mine Safety and Health Administration N/A= Not Applicable or Not Available N/E= None Established NIOSH = The National Institute for Occupational Safety Health NTG = National Toxicology Program OSHA = The Occupational Safety and Administration STEL = Short Term Exposure Limit TDG = Transportation of Dangerous Goods TLV = Threshold Limit Value TSCA = Toxic Substance Control Acts in US VOC = Volatile Organic Compounds WHMIS = Workplace Hazardous Material Identification System
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Information given herein is to the best of our knowledge and is only related to the product as delivered in order to give a complete review of safety aspects accurate as of the date indicated. All data given are never meant to guarantee product properties. It is the sole responsibility of the user to take all precautions required in handling the product.