510330JPMB UV MUSTARD

Version Number 1.6 Revision Date 10/27/2022



Page 1 of 15 Print Date 10/28/2022

SAFETY DATA SHEET

510330JPMB UV MUSTARD

Section 1. Identification	n	
GHS product identifier	:	510330JPMB UV MUSTARD
Chemical name	:	Mixture
CAS number	:	Mixture
Other means of identification	:	CC00016078
Product type	:	solid
Relevant identified uses of the subs	tance	or mixture and uses advised against
Product use	:	Industrial applications.
Supplier's details	:	AVIENT CORPORATION
		33587 Walker Road, Avon Lake, OH 44012
		1 (440) 930-1000 or 1 (844) 4AVIENT
Emergency telephone number	:	CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or
(with hours of operation)		accident).

Section 2. Hazards identification

This mixture has not been evaluated as a whole. Information provided on the health effects of this product is based on individual components. All ingredients are bound and potential for hazardous exposure as shipped is minimal. However, some vapors may be released upon heating and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure. After handling, always wash hands thoroughly with soap and water.

OSHA/HCS status	:	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Classification of the substance or mixture	:	Not classified.
GHS label elements		
Signal word Hazard statements	:	No signal word. No known significant effects or critical hazards.

510330JPMB UV MUSTARD

Version Number 1.6 Revision Date 10/27/2022

XAVIENT

Page 2 of 15 Print Date 10/28/2022

Precautionary statements

	:	Not applicable.
Prevention	:	Not applicable.
Response	:	Not applicable.
Storage	:	Not applicable.
Disposal	:	Not applicable.
Supplemental label elements	:	None known.
Hazards not otherwise classified	:	None known.
		Not available.

Section 3. Composition/information on ingredients

Substance/mixture	:	Mixture
Chemical name	:	Mixture
Other means of identification	:	CC00016078

CAS number/other identifiers

Ingredient name	%	CAS number
Titanium dioxide	>= 5 - <= 10	13463-67-7
Decanedioic acid, bis(2,2,6,6-tetramethyl-4-piperidinyl) ester	>= 5 - <= 10	52829-07-9

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

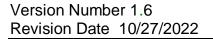
Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be

510330JPMB UV MUSTARD





Pa	age 3 of 15
Print Date	10/28/2022

	delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated
	clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: Wash out mouth with water. Remove victim to fresh air and keep at
	rest in a position comfortable for breathing. If material has been
	swallowed and the exposed person is conscious, give small quantities
	of water to drink. Do not induce vomiting unless directed to do so by
	medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects		
Eye contact Inhalation Skin contact Ingestion	::	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Over-exposure signs/symptoms		
Eye contact	:	No specific data.
Inhalation	:	No specific data.
Skin contact	:	No specific data.
Ingestion	:	No specific data.
Indication of immediate medical att	entic	on and special treatment needed, if necessary
Notes to physician	:	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	:	No specific treatment.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media	:	In case of fire, use water spray (fog), foam, dry chemical or CO_2 .
Unsuitable extinguishing media	:	None known.

510330JPMB UV MUSTARD

Version Number 1.6 Revision Date 10/27/2022



Page 4 of 15 Print Date 10/28/2022

Specific hazards arising from the chemical	:	No specific fire or explosion hazard.
Hazardous thermal decomposition products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides
Special protective actions for fire- fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel For emergency responders	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions <u>Methods and materials for containme</u>	: ent a	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Small spill Large spill	:	Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

510330JPMB UV MUSTARD

Version Number 1.6 Revision Date 10/27/2022

ÀVIENT

Page 5 of 15 Print Date 10/28/2022

Precautions for safe handling

Protective measures Advice on general occupational hygiene	:	Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Titanium dioxide	OSHA PEL 1989 (1989-03-01) TWA 10 mg/m3 Form: Total dust OSHA PEL (1993-06-30) TWA 15 mg/m3 Form: Total dust ACGIH TLV (1996-05-18) TWA 10 mg/m3
Decanedioic acid, bis(2,2,6,6- tetramethyl-4-piperidinyl) ester	None.

Appropriate engineering controls	:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

510330JPMB UV MUSTARD

Version Number 1.6 Revision Date 10/27/2022



	Page 6 of 15
/2022	Print Date 10/28/2022

Hygiene measures Eye/face protection	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection		
Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	:	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Appearance

Physical state	:	solid [Pellets.]
Color	:	YELLOW
Odor	:	Faint odor.
Odor threshold	:	Not available.
pH	:	Not available.
Melting point	:	Not available.
Boiling point	:	Not available.
Flash point	:	Not available.
Burning time	:	Not available.
Burning rate	:	Not available.
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not available.

510330JPMB UV MUSTARD

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Version Number 1.6 Revision Date 10/27/2022

ÀVIENT

Page 7 of 15 Print Date 10/28/2022

Lower and upper explosive	:	Lower: Not available.
(flammable) limits		Upper: Not available.
Vapor pressure	:	Not available.
Vapor density	:	Not available.
Relative density	:	Not available.
Solubility	:	Not available.
Solubility in water	:	insoluble in water.
Partition coefficient: n- octanol/water	:	Not available.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
SADT	:	Not available.
X7		Dynamic: Not available.
Viscosity	•	
V ISCOSITY	•	Kinematic: Not available.
Aerosol product	·	
	:	
<u>Aerosol product</u>	:	Kinematic: Not available.
Aerosol product Heat of combustion Ignition distance Enclosed space ignition - Time	· · ·	Kinematic: Not available. Not available.
Aerosol product Heat of combustion Ignition distance Enclosed space ignition - Time equivalent	:	Kinematic: Not available. Not available. Not available. Not available.
Aerosol product Heat of combustion Ignition distance Enclosed space ignition - Time equivalent Enclosed space ignition -		Kinematic: Not available. Not available. Not available.
Aerosol product Heat of combustion Ignition distance Enclosed space ignition - Time equivalent Enclosed space ignition - Deflagration density	:	Kinematic: Not available. Not available. Not available. Not available. Not available.
Aerosol product Heat of combustion Ignition distance Enclosed space ignition - Time equivalent Enclosed space ignition -	:	Kinematic: Not available. Not available. Not available. Not available.

Section 10. Stability and reactivity

Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	Stable under recommended storage and handling conditions (see Section 7).
Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	:	Keep away from extreme heat and oxidizing agents.
Incompatible materials	:	Keep away from strong acids. Oxidizer.
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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Section 11. Toxicological information

Information on toxicological effects

510330JPMB UV MUSTARD

Version Number 1.6 Revision Date 10/27/2022



Page 8 of 15
Print Date 10/28/2022

Product/ingredient name	Result	Species	Dose	Exposure			
Titanium oxide (TiO2)	-	· -					
	LC50 Inhalation	Rat - Male	6.82 Mg/l	4 h			
	Dusts and mists						
	LD50 Dermal	Rabbit	> 5,000 mg/kg	-			
Decanedioic acid, 1,10-bis(2,2			1				
	LC50 Inhalation	Rat	0.5 Mg/l	4 h			
	Vapor						
Conclusion/Summary	: Mixtur	e.Not fully tested	1.				
Irritation/Corrosion							
Conclusion/Summary							
Skin	: Mixtu	re.Not fully teste	d.				
Eyes		re.Not fully teste					
Respiratory		re.Not fully teste					
<u>Sensitization</u>							
Conclusion/Summary							
Skin	: Mixtu	: Mixture.Not fully tested.					
Respiratory	: Mixture.Not fully tested.						
<u>Mutagenicity</u>							
Conclusion/Summary	: Mixtur	re.Not fully teste	d.				
Carcinogenicity							
Conclusion/Summary	: Mixtu	re.Not fully teste	d.				
Classification							
Product/ingredient name	OSHA IA	RC N	ГР				
Titanium oxide (TiO2)	- 2B	-					
Reproductive toxicity							
Reproductive toxicity							
Conclusion/Summary	: Mixtu	re.Not fully teste	d.				
<u>Teratogenicity</u>							

510330JPMB UV MUSTARD

Version Number 1.6 Revision Date 10/27/2022

ÀVIENT

Page 9 of 15 Print Date 10/28/2022

Specific target organ toxicity (single on Not available.	expo	<u>sure)</u>
Specific target organ toxicity (repeate Not available.	ed e	xposure)
Aspiration hazard Not available.		
Information on the likely routes of exposure	:	Not available.
Potential acute health effects		
Eye contact Inhalation Skin contact Ingestion	::	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Symptoms related to the physical, che	emio	cal and toxicological characteristics
Eye contact Inhalation Skin contact Ingestion	::	No specific data. No specific data. No specific data. No specific data.
Delayed and immediate effects and a	lso c	hronic effects from short and long term exposure
Short term exposure		
Potential immediate effects Potential delayed effects	:	Not available. Not available.
Long term exposure		
Potential immediate effects Potential delayed effects	:	Not available. Not available.
Potential chronic health effects		
Conclusion/Summary	:	Mixture.Not fully tested.
General Carcinogenicity Mutagenicity Teratogenicity Developmental effects	:::::::::::::::::::::::::::::::::::::::	No known significant effects or critical hazards. No known significant effects or critical hazards.

510330JPMB UV MUSTARD

Version Number 1.6 Revision Date 10/27/2022



Page 10 of 15 Print Date 10/28/2022

Fertility effects

No known significant effects or critical hazards.

Numerical measures of toxicity

<u>Acute toxicity estimates</u> N/A

Other information

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

Section 12. Ecological information

:

:

Toxicity

Product/ingredient name	Result	Species	Exposure	
Titanium oxide (TiO2)				
	Acute LC50 > 1,000 Mg/l	Fish - Fundulus heteroclitus	96 h	
	Marine water			
	Acute LC50 3 Mg/l Fresh water	Crustaceans - Ceriodaphnia dubia	48 h	
	Acute LC50 6.5 Mg/l Fresh	Daphnia - Daphnia pulex	48 h	
	water			
Decanedioic acid, 1,10-bis(2,2,	6,6-tetramethyl-4-piperidinyl) ester			
	Acute EC50 8.6 Mg/l Fresh	Daphnia	48 h	
	water			
510330JPMB UV MUSTARD				
Remarks - Acute - Aquatic invertebrates.:	Chemicals are not readily available	le as they are bound within the po	lymer matrix.	
Conclusion/Summary	: Chemicals are not readily available as they are bound within the polymer matrix.			
Persistence and degradability				
Conclusion/Summary	: Chemicals are not read polymer matrix.	dily available as they are bound w	ithin the	
Conclusion/Summary	: Chemicals are not read polymer matrix.	dily available as they are bound w	ithin the	
	10/15			

510330JPMB UV MUSTARD

Version Number 1.6 Revision Date 10/27/2022



Page 11 of 15 Print Date 10/28/2022

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Decanedioic acid, 1,10-bis(2,2,6,6-	0.35	-	low
tetramethyl-4-piperidinyl) ester			

Mobility in soil

Soil/water partition coefficient (KOC)	:	Not available.
Other adverse effects	:	No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods	:	The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and
		product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

United States - RCRA Acute hazardous waste "P" List: Not listed

United States - RCRA Toxic hazardous waste "U" List: Not listed

Section 14. Transport information

U.S.DOT 49CFR Ground/Air/Water	:	Not regulated for transportation.
International Air ICAO/IATA	:	Not classified as dangerous goods under transport regulations.
International Water IMO/IMDG	:	Not classified as dangerous goods under transport regulations.

510330JPMB UV MUSTARD

Version Number 1.6 Revision Date 10/27/2022

ÀVIENT

Page 12 of 15 Print Date 10/28/2022

Section 15. Regulatory information

U.S. Federal regulations	:	 United States - TSCA 12(b) - Chemical export notification: None of the components are listed. United States - TSCA 4(a) - Final Test Rules: Not listed United States - TSCA 4(a) - ITC Priority list: Not listed United States - TSCA 4(a) - Proposed test rules: Not listed United States - TSCA 4(a) - Proposed test rules: Not listed United States - TSCA 4(a) - Proposed test rules: Not listed United States - TSCA 5(a) - Proposed significant new use rules: Not listed United States - TSCA 5(a) - Proposed significant new use rules: Not listed United States - TSCA 5(e) - Substances consent order: Not listed United States - TSCA 6 - Final risk management: Not listed United States - TSCA 6 - Proposed risk management: Not listed United States - TSCA 8(a) - Chemical risk rules: Not listed United States - TSCA 8(a) - Chemical Data Reporting (CDR): Not determined United States - TSCA 8(a) - Preliminary assessment report (PAIR): Not listed United States - TSCA 8(c) - Significant adverse reaction (SAR): Not listed United States - TSCA 8(d) - Health and safety studies: Not listed United States - TSCA 8(d) - Health and safety studies: Not listed United States - EPA Clean water act (CWA) section 307 - Priority pollutants: Listed Zinc ferrite brown spinel (C.I. Pigment Yellow 119) United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Flammable substances: Not listed United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Toxic substances: Not listed United States - Department of commerce - Precursor chemical: Not listed
Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	:	Not listed
Clean Air Act Section 602 Class I Substances	:	Not listed
Clean Air Act Section 602 Class II Substances	:	Not listed
DEA List I Chemicals (Precursor Chemicals)	:	Not listed

510330JPMB UV MUSTARD

Version Number 1.6 Revision Date 10/27/2022



Page 13 of 15 Print Date 10/28/2022

DEA List II Chemicals (Essential : Not listed **Chemicals**)

US. EPA CERCLA Hazardous Substances (40 CFR 302)

not applicable

SARA 311/312

Classification

: Not applicable.

Composition/information on ingredients

No products were found.

Name	%	Classification
Titanium oxide (TiO2)	>= 5 - <= 10	CARCINOGENICITY - Category 2
Decanedioic acid, 1,10-	>= 5 - <= 10	ACUTE TOXICITY - inhalation - Category 1
bis(2,2,6,6-tetramethyl-4-		SERIOUS EYE DAMAGE - Category 1
piperidinyl) ester		

Form R - Reporting requirements

Product name	CAS number	%
Zinc ferrite brown spinel (C.I. Pigment Yellow 119)	68187-51-9	>= 1 - <= 3

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

Not applicable.

State regulations		
Massachusetts	:	None of the components are listed.
New York	:	None of the components are listed.
New Jersey	:	The following components are listed:
-		Calcium carbonate
		Titanium dioxide
		Zinc ferrite brown spinel (C.I. Pigment Yellow 119)
Pennsylvania	:	The following components are listed:
·		Calcium carbonate
		Titanium dioxide
		Zinc ferrite brown spinel (C.I. Pigment Yellow 119)

510330JPMB UV MUSTARD

Version Number 1.6 Revision Date 10/27/2022



Page 14 of 15 Print Date 10/28/2022

<u>California Prop. 65</u>

WARNING: This product can expose you to Titanium dioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Ingredient name	No significant risk level	Maximum acceptable dosage level
Titanium dioxide	-	-

United States inventory (TSCA 8b)	:	All components are active or exempted.
Canada inventory	:	Not determined.
International regulations		
Inventory list		
Australia	:	Not determined.
Canada	:	Not determined.
China	:	Not determined.
Europe inventory	:	Not determined.
Japan	:	Not determined.
New Zealand	:	Not determined.
Philippines	:	Not determined.
Republic of Korea	:	Not determined.
Taiwan	:	Not determined.
Turkey	:	Not determined.
United States	:	All components are active or exempted.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

	0
Flammability	0
Physical hazards	0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on

510330JPMB UV MUSTARD

Version Number 1.6 Revision Date 10/27/2022

AVIENT

Page 15 of 15 Print Date 10/28/2022

HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual. History

Date of printing	:	10/28/2022
Date of issue/Date of revision	:	10/27/2022
Date of previous issue	:	03/17/2021
Version	:	1.6
Key to abbreviations	:	ATE = Acute Toxicity Estimate
U C		BCF = Bioconcentration Factor
		GHS = Globally Harmonized System of Classification and Labelling of
		Chemicals
		IATA = International Air Transport Association
		IBC = Intermediate Bulk Container
		IMDG = International Maritime Dangerous Goods
		LogPow = logarithm of the octanol/water partition coefficient
		MARPOL = International Convention for the Prevention of Pollution From
		Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine
		pollution)
		UN = United Nations
References	:	Not available.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Particularly this information may not be valid for such material used in conjunction with any other materials or in any process, unless specified in the text.