

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 11/13/2020

SECTION 1: Identification	
1.1. Identification	
Product form	: Mixture
Trade name	: Concast 26C
Product code	: 105800
1.2. Recommended use and restriction	ns on use
Recommended use	: Refractory Applications
1.3. Supplier	
Reno Refractories, Inc. 601 Reno Drive P.O. Box 201 Morris, AL 35116 - United States T 205-647-0240 - F 205-647-6854 <u>sales@r-ref.com</u> - <u>www.renorefractories.com</u>	1
1.4. Emergency telephone number	
Emergency number	: 1-800-262-8200 CHEMTREC
SECTION 2: Hazard(s) identificatio	n
2.1. Classification of the substance or	mixture
GHS US classification	
Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2 Carcinogenicity Category 1A Specific target organ toxicity (repeated expose Category 1	May cause cancer
2.2. GHS Label elements, including pr	ecautionary statements
GHS US labeling	
Hazard pictograms (GHS US)	
Signal word (GHS US)	: Danger
Signal word (GHS US) Hazard statements (GHS US)	 Danger Causes skin irritation Causes serious eye irritation May cause cancer Causes damage to organs through prolonged or repeated exposure

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2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
Silica, crystalline – cristobalite	(CAS-No.) 14464-46-1	9.75 – 13.6	STOT RE 1, H372
Calcium oxide	(CAS-No.) 1305-78-8	≤ 2.42	Skin Corr. 1, H314 Eye Dam. 1, H318 STOT SE 3, H335
Amorphous/fused silica	(CAS-No.) 60676-86-0	0 – 2.4	STOT RE 2, H373
Crystalline silica	(CAS-No.) 14808-60-7	0.5 – 1.54	Carc. 1A, H350 STOT RE 1, H372
Titanium dioxide	(CAS-No.) 13463-67-7	≤ 1.23	Carc. 2, H351

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

SECTION 4: First-aid measures		
4.1. Description of first aid measures		
First-aid measures general	: IF exposed or concerned: Get medical advice/attention.	
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.	
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.	
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.	
First-aid measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.	
4.2. Most important symptoms and effect	s (acute and delayed)	
Symptoms/effects after skin contact	: Irritation.	
Symptoms/effects after eye contact	: Eye irritation.	
4.3. Immediate medical attention and spe	cial treatment, if necessary	
Treat symptomatically.		
SECTION 5: Fire-fighting measures		
5.1. Suitable (and unsuitable) extinguishi	ng media	
Suitable extinguishing media	: Water spray. Dry powder. Foam.	
5.2. Specific hazards arising from the cho		
Hazardous decomposition products in case of fire	: Toxic fumes may be released.	
5.3. Special protective equipment and protecti	ecautions for fire-fighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.	
SECTION 6: Accidental release meas	ures	
6.1. Personal precautions, protective equ	ipment and emergency procedures	
6.1.1. For non-emergency personnel		
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene. Do not breathe dust/fume/gas/mist/vapors/spray.	
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. Notify authorities if product enters sewers or public waters.		

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

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6.3. Methods and material for conta	inment and cleaning up
Methods for cleaning up	: Mechanically recover the product. Notify authorities if product enters sewers or public waters.
Other information	: 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	je
7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Wear personal protective equipment. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.
Hygiene measures	: Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, in	cluding any incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Concast 26C		
No additional information available		
Calcium oxide (1305-78-8)		
USA - ACGIH - Occupational Exposure Limits		
Local name	Calcium oxide	
ACGIH TWA (mg/m ³)	2 mg/m³	
Remark (ACGIH)	TLV® Basis: URT irr	
Regulatory reference	ACGIH 2020	
USA - OSHA - Occupational Exposure Limits		
Local name	Calcium oxide	
OSHA PEL (TWA) (mg/m ³)	5 mg/m³	
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1	
Titanium dioxide (13463-67-7)		
USA - ACGIH - Occupational Exposure Limits		
Local name	Titanium dioxide	
ACGIH TWA (mg/m³)	10 mg/m³	
Remark (ACGIH)	TLV® Basis: LRT irr. Notations: A4 (Not classifiable as a Human Carcinogen)	
Regulatory reference	ACGIH 2020	
USA - OSHA - Occupational Exposure Limits		
Local name	Titanium dioxide (Total dust)	
OSHA PEL (TWA) (mg/m ³)	15 mg/m³	
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1	
Silica, crystalline – cristobalite (14464-46-1)		
USA - ACGIH - Occupational Exposure Limits		
Local name	Silica crystaline - cristobalite	
ACGIH TWA (mg/m ³)	0.025 mg/m ³ (Respirable fraction)	
Remark (ACGIH)	TLV® Basis: Pulm fibrosis; lung cancer. Notations: A2 (Suspected Human Carcinogen)	
Regulatory reference	ACGIH 2020	
USA - OSHA - Occupational Exposure Limits		
Local name	Cristobalite (Silica: Crystalline)	

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Remark (OSHA)	Table Z-3. For OSHA PEL (TWA): Use ½ the value calculated from the count or mass formulae for quartz. CAS No. source: eCFR Table Z-1.
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-3 Mineral Dusts
Crystalline silica (14808-60-7)	
USA - ACGIH - Occupational Exposure Lin	mits
Local name	Silica crystaline - quartz
ACGIH TWA (mg/m ³)	0.025 mg/m ³ (Respirable fraction)
Remark (ACGIH)	TLV® Basis: Pulm fibrosis; lung cancer. Notations: A2 (Suspected Human Carcinogen)
Regulatory reference	ACGIH 2020
USA - OSHA - Occupational Exposure Lin	nits
Local name	Quartz (Respirable) (Silica: Crystalline)
Remark (OSHA)	Table Z-3. For OSHA PEL (TWA): Use formulas: (250 / (%SiO2+5)) for mppcf and (10 mg/m3 / (%SiO2+2)) for mg/m3. CAS No. source: eCFR Table Z-1.
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-3 Mineral Dusts
Amorphous/fused silica (60676-86-0)	
USA - OSHA - Occupational Exposure Lin	nits
Local name	Silica, fused, respirable dust
OSHA PEL (TWA) (ppm)	20 mppcf
Remark (OSHA)	Table Z-3. For OSHA PEL (TWA): Use formula: (80 mg/m3 / (%SiO2)) for mg/m3. CAS No. source: eCFR Table Z-1.
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-3 Mineral Dusts

8.2. Appropriate engineering controls

Appropriate engineering controls Environmental exposure controls : Ensure good ventilation of the work station. : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Wear respiratory protection.

Personal protective equipment symbol(s):



.1. Information on basic phys	ical and chemical properties	
Physical state	: Solid	
Appearance	: Granular powder.	
Color	: Gray	
Odor	: Almost odorless	
Odor threshold	: No data available	
рН	: No data available	
Melting point	: No data available	
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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	: 2.2 – 2.9
Solubility	: Water: < 0.1 %
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: Not applicable
Explosive properties	: No data available
Oxidizing properties	: No data available
9.2. Other information	

VOC content

: 0%

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.

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information	h .	
11.1. Information on toxicological effects		
Acute toxicity (oral)	: Not classified	
Acute toxicity (dermal)	: Not classified	
Acute toxicity (inhalation)	: Not classified	
Calcium oxide (1305-78-8)		
LD50 oral rat	> 2000 mg/kg body weight (OECD 425: Acute Oral Toxicity: Up-and-Down Procedure, Rat, Female, Experimental value, Oral, 14 day(s))	,
LD50 dermal rabbit	> 2500 mg/kg body weight (EU Method B.3: Acute toxicity (dermal), 24 h, Rabbit, Male / female, Experimental value, Dermal, 14 day(s))	
LC50 Inhalation - Rat	> 6.04 mg/l (OECD 436: Acute inhalation toxicity-acute toxic class method, 4 h, Rat, Male / female, Experimental value, Inhalation (dust), 15 day(s))	/
Titanium dioxide (13463-67-7)		
LD50 oral rat	> 5000 mg/kg body weight (OECD 425: Acute Oral Toxicity: Up-and-Down Procedure, Rat, Female, Experimental value, Oral, 14 day(s))	,
LC50 Inhalation - Rat	> 6.82 mg/l (Other, 4 h, Rat, Male, Experimental value, Inhalation (dust), 14 day(s))	
Skin corrosion/irritation	: Causes skin irritation.	
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Serious eye damage/irritation : Causes serious eye irritation. Respiratory or skin sensitization : Not classified Gern cell mutagenicity : Not classified Carcinogenicity : May cause cancer. Titanium dioxide (13463-67-7) IARC group IARC group 2B - Possibly carcinogenic to humans Crystalline silica (14808-60-7) IARC group IARC group 1 - Carcinogenic to humans Reproductive toxicity : Not classified STOT-single exposure : Not classified Calcium oxide (1305-78-8) STOT-single exposure STOT-repeated exposure : Causes damage to organs through prolonged or repeated exposure. STOT-repeated exposure : Causes damage to organs through prolonged or repeated exposure. STOT-repeated exposure : Causes damage to organs through prolonged or repeated exposure. STOT-repeated exposure : Causes damage to organs through prolonged or repeated exposure. STOT-repeated exposure : Causes damage to organs through prolonged or repeated exposure. STOT-repeated exposure : Causes damage to organs through prolonged or repeated exposure. Crystalline silica (14808-60-7) : STOT-repeated exposure : Causes	cording to Federal Register / Vol. 77, No. 58 / Monday	, March 26, 2012 / Rules and Regulations
Germ cell mutagenicity : Not classified Carcinogenicity : May cause cancer. Titanium dioxide (13463-67-7)	Serious eye damage/irritation	: Causes serious eye irritation.
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Crystalline silica (14808-60-7) IARC group 1 - Carcinogenic to humans Reproductive toxicity : Not classified STOT-single exposure : Not classified Calcium oxide (1305-78-8) : STOT-single exposure STOT-single exposure May cause respiratory irritation. STOT-repeated exposure : Causes damage to organs through prolonged or repeated exposure. Silica, crystalline - cristobalite (14464-46-1) : Causes damage to organs through prolonged or repeated exposure. Crystalline silica (14808-60-7) : Causes damage to organs through prolonged or repeated exposure. STOT-repeated exposure : Causes damage to organs through prolonged or repeated exposure.	Titanium dioxide (13463-67-7)	
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Reproductive toxicity : Not classified STOT-single exposure : Not classified Calcium oxide (1305-78-8) : STOT-single exposure May cause respiratory irritation. STOT-repeated exposure : Causes damage to organs through prolonged or repeated exposure. Silica, crystalline - cristobalite (14464-46-1) : Causes damage to organs through prolonged or repeated exposure. STOT-repeated exposure : Causes damage to organs through prolonged or repeated exposure. Crystalline silica (14808-60-7) : Causes damage to organs through prolonged or repeated exposure. STOT-repeated exposure : Causes damage to organs through prolonged or repeated exposure.	Crystalline silica (14808-60-7)	
STOT-single exposure : Not classified Calcium oxide (1305-78-8)	IARC group	1 - Carcinogenic to humans
Calcium oxide (1305-78-8) STOT-single exposure May cause respiratory irritation. STOT-repeated exposure : Causes damage to organs through prolonged or repeated exposure. Silica, crystalline – cristobalite (14464-46-1) : STOT-repeated exposure STOT-repeated exposure Causes damage to organs through prolonged or repeated exposure. Crystalline silica (14808-60-7) : Causes damage to organs through prolonged or repeated exposure. STOT-repeated exposure Causes damage to organs through prolonged or repeated exposure.	Reproductive toxicity	: Not classified
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Silica, crystalline – cristobalite (14464-46-1) STOT-repeated exposure Causes damage to organs through prolonged or repeated exposure. Crystalline silica (14808-60-7) STOT-repeated exposure Causes damage to organs through prolonged or repeated exposure.		May cause respiratory irritation.
STOT-repeated exposure Causes damage to organs through prolonged or repeated exposure. Crystalline silica (14808-60-7) STOT-repeated exposure STOT-repeated exposure Causes damage to organs through prolonged or repeated exposure.	STOT-repeated exposure	: Causes damage to organs through prolonged or repeated exposure.
Crystalline silica (14808-60-7) STOT-repeated exposure Causes damage to organs through prolonged or repeated exposure.	Silica, crystalline – cristobalite (14464-46-	1)
STOT-repeated exposure Causes damage to organs through prolonged or repeated exposure.	STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.
	Crystalline silica (14808-60-7)	
Amorphous/fused silica (60676-86-0)	STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.
Amorphoushused since (00070-00-0)	Amorphous/fused silica (60676-86-0)	

Amorphous/luseu sinca (00070-00-0)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	Not classified
Viscosity, kinematic	No data available
Symptoms/effects after skin contact	Irritation.
Symptoms/effects after eye contact	Eye irritation.

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.
Calcium oxide (1305-78-8)	
LC50 fish 1	50.6 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Read-across, GLP)
EC50 Daphnia 1	49.1 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Read-across, Locomotor effect)
ErC50 (algae)	184.57 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata,

	Static system, Fresh water, Read-across, GLP)
Titanium dioxide (13463-67-7)	
LC50 fish 1	> 100 mg/l (Equivalent or similar to OECD 203, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, Nominal concentration)
ErC50 (algae)	61 mg/l (EPA 600/9-78-018, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Nominal concentration)

12.2. Persistence and degradability

Calcium oxide (1305-78-8)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)

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Titanium dioxide (13463-67-7)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)
Silica, crystalline – cristobalite (14464-46-1)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
Crystalline silica (14808-60-7)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)
Amorphous/fused silica (60676-86-0)	
Persistence and degradability	Biodegradability in soil: not applicable. Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)

12.3. Bioaccumulative potential

Calcium oxide (1305-78-8)	
Bioaccumulative potential	Not bioaccumulative.
Titanium dioxide (13463-67-7)	
Bioaccumulative potential	Not bioaccumulative.
Silica, crystalline – cristobalite (14464-46-1)	
Bioaccumulative potential	No test data available.
Crystalline silica (14808-60-7)	
Bioaccumulative potential	No bioaccumulation data available.
Amorphous/fused silica (60676-86-0)	
Bioaccumulative potential	No bioaccumulation data available.

12.4. Mobility in soil

Calcium oxide (1305-78-8)	
Surface tension	No data available in the literature
Ecology - soil	No (test)data on mobility of the substance available.
Titanium dioxide (13463-67-7)	
Ecology - soil	Low potential for mobility in soil.
Silica, crystalline – cristobalite (14464-46-1)	
Ecology - soil	No (test)data on mobility of the substance available.
Crystalline silica (14808-60-7)	
Ecology - soil	No (test)data on mobility of the substance available.
Amorphous/fused silica (60676-86-0)	
Ecology - soil	No (test)data on mobility of the substance 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

Department of Transportation (DOT)

In accordance with DOT

Not applicable

Transportation of Dangerous Goods

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

Calcium oxide (1305-78-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory
Titanium dioxide (13463-67-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Silica, crystalline – cristobalite (14464-46-1)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Crystalline silica (14808-60-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Amorphous/fused silica (60676-86-0)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
15.2. International regulations

CANADA

 Calcium oxide (1305-78-8)

 Listed on the Canadian DSL (Domestic Substances List)

 Titanium dioxide (13463-67-7)

 Listed on the Canadian DSL (Domestic Substances List)

 Silica, crystalline – cristobalite (14464-46-1)

 Listed on the Canadian DSL (Domestic Substances List)

 Crystalline silica (14808-60-7)

 Listed on the Canadian DSL (Domestic Substances List)

 Amorphous/fused silica (60676-86-0)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

Titanium dioxide (13463-67-7)

Listed on IARC (International Agency for Research on Cancer)

Crystalline silica (14808-60-7)

Listed on IARC (International Agency for Research on Cancer)

15.3. US State regulations

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Component	State or local regulations
Calcium oxide(1305-78-8)	U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
Titanium dioxide(13463-67-7)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
Silica, crystalline – cristobalite(14464-46-1)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
Crystalline silica(14808-60-7)	U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
Amorphous/fused silica(60676-86-0)	U.S New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

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Revision date

: 11/13/2020

Full text of H-phrases:

H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H335	May cause respiratory irritation
H350	May cause cancer
H351	Suspected of causing cancer
H372	Causes damage to organs through prolonged or repeated exposure
H373	May cause damage to organs through prolonged or repeated exposure

SDS US (GHS HazCom 2012)

The information provided in the Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of it's publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release. Reno Refractories, Inc. makes no warranties, expressed or implied, with respect to such information, including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose or course of performance or usage of trade. User is responsible for determining whether the product is fit for a particular purpose and suitable for user's method of use or application. 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.