

RED TPV

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SAFETY DATA SHEET

RED TPV

Section 1. Identification

RED TPV GHS product identifier Chemical name Mixture CAS number Mixture Other means of identification CC10420148 **Product type** solid

Relevant identified uses of the substance 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 (with hours of operation)

CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or

accident).

Section 2. Hazards identification

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 No signal word.

Hazard statements No known significant effects or critical hazards.

Precautionary statements

Prevention Not applicable. Response Not applicable. Storage Not applicable.

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Disposal : Not applicable. **Hazards not otherwise classified** : None known.

Hazards identified when used : No known significant effects or critical hazards.

Section 3. Composition/information on ingredients

Substance/mixture: MixtureChemical name: RED TPVOther means of identification: RED TPV

Ingredient name	Synonyms	%	Identifiers
Limestone	Limestone	>= 5 - <= 10	CAS: 1317-65-3
Titanium oxide	Titanium dioxide	>= 0.5 - <= 1.5	CAS: 13463-67-
Quartz (SiO2)	crystalline silica, respirable powder	> 0 - <= 1	CAS: 14808-60-

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 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 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. 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.



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Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact No known significant effects or critical hazards. Inhalation No known significant effects or critical hazards. Skin contact No known significant effects or critical hazards. No known significant effects or critical hazards. **Ingestion**

Over-exposure signs/symptoms

Eve contact No specific data. **Inhalation** No specific data. No specific data. Skin contact No specific data. **Ingestion**

Indication of immediate medical attention and special treatment needed, if necessary

In case of inhalation of decomposition products in a fire, symptoms Notes to physician

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 Unsuitable extinguishing media In case of fire, use water spray (fog), foam, dry chemical or CO₂.

None known.

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, halogenated compounds,

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



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Special protective equipment for fire-fighters

personal risk or without suitable training.

Fire-fighters should wear appropriate protective equipment and selfcontained 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: 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.

For emergency responders:

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 : 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).

Methods and materials for containment and cleaning up

Small 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.Large spillMove containers from spill area. Properties of the contractor of the contractor of the 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.

Section 7. Handling and storage

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, : Store in accordance with local regulations. Store in original container



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including any incompatibilities

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	
Limestone	CAL OSHA PEL (2018-05-16). [limestone]	
	TWA 8 hours: 10 mg/m3 Form: Total dust	
	TWA 8 hours: 5 mg/m3 Form: Respirable fraction	
	OSHA PEL 1989 (1989-03-01). [Calcium carbonate]	
	TWA 8 hours: 5 mg/m3 Form: Respirable fraction	
	TWA 8 hours: 15 mg/m3 Form: Total dust	
	OSHA PEL 1989 (1989-03-01). [Limestone]	
	TWA 8 hours: 5 mg/m3 Form: Respirable fraction	
	TWA 8 hours: 15 mg/m3 Form: Total dust	
	OSHA PEL 1989 (1989-03-01). [Marble]	
	TWA 8 hours: 5 mg/m3 Form: Respirable fraction	
	TWA 8 hours: 15 mg/m3 Form: Total dust	
	OSHA PEL (1993-06-30). [Calcium Carbonate]	
	TWA 8 hours: 5 mg/m3 Form: Respirable fraction	
	TWA 8 hours: 15 mg/m3 Form: Total dust	
	NIOSH REL (2015-02-13). [calcium carbonate]	
	TWA 10 hours: 10 mg/m3 Form: Total	
	TWA 10 hours: 5 mg/m3 Form: Respirable fraction	
Titanium oxide	CAL OSHA PEL (2018-05-16). [titanium dioxide as Ti]	
	TWA 8 hours: 10 mg/m3 (as Ti) Form: Total dust	
	TWA 8 hours: 5 mg/m3 (as Ti) Form: Respirable fraction	
	ACGIH TLV (2022-01-06). [titanium dioxide finescale particles]	
	A3.	
	TWA 8 hours: 2.5 mg/m3 Form: respirable fraction, finescale	
	particles	
	ACGIH TLV (2022-01-06). [titanium dioxide nanoscale particles]	
	A3.	
	TWA 8 hours: 0.2 mg/m3 Form: respirable fraction, nanoscale	
	particles	
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	OSHA PEL 1989 (1989-03-01). [Titanium dioxide] TWA 8 hours: 10 mg/m3 Form: Total dust OSHA PEL (1993-06-30). [Titanium dioxide] TWA 8 hours: 15 mg/m3 Form: Total dust
Quartz (SiO2)	OSHA PEL Z3 (1997-09-03). [Silica, Crystalline Quartz non-respirable] TWA 8 Hours: 30/ (%SiO ₂ +2) mg/m³ Form: Total dust OSHA PEL Z3 (2016-06-23). [Silica, Crystalline Quartz respirable powder] TWA 8 Hours: 10/ (%SiO ₂ +2) mg/m³ Form: Respirable TWA 8 Hours: 250/ (%SiO ₂ +5) mppcf Form: Respirable CAL OSHA PEL (2018-05-16). [silica, crystalline - quartz] TWA 8 hours: 0.05 mg/m³ OSHA PEL 1989 (1989-03-01). [Silica, crystalline quartz (as quartz), respirable dust] TWA 8 hours: 0.1 mg/m³ (Calculated as Quartz) Form: Respirable dust OSHA PEL (2016-06-23). [Silica, crystalline] TWA 8 hours: 50 µg/m³ Form: Respirable dust NIOSH REL (2010-09-01). [SILICA, CRYSTALLINE (AS RESPIRABLE DUST)] See Appendix A - NIOSH Potential Occupational Carcinogen. TWA 10 hours: 0.05 mg/m³ Form: Respirable dust ACGIH TLV (2005-12-09). [Silica, crystalline] A2. TWA 8 hours: 0.025 mg/m³ Form: Respirable fraction

Biological exposure indices

No exposure indices known.

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

Hygiene measures

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



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showers are close to the workstation location.

Eye/face protection : 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

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state : solid [Pellets.]

Color : RED

Odor : Faint odor.

Odor threshold : Not available.

pH : Not available.

Melting point/freezing point : Not available.

Boiling point or initial boiling point

and boiling range

: Not available.

Flash point : Not applicable.

Evaporation rate : Not available. **Flammability** : Not available.

Lower and upper explosion : **Lower:** Not applicable.



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limit/flammability limit Upper: Not applicable.

Vapor pressure: Not available.Relative vapor density: Not applicable.Relative density: Not available.Solubility in water: insoluble in water.Partition coefficient: n-: Not applicable.

octanol/water

Auto-ignition temperature : Not applicable. **Decomposition temperature** : Not available.

Viscosity : Dynamic : Not available.

Kinematic : Not available.

Particle characteristics

Median particle size : 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.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity



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Product/ingredient name	Result
Titanium oxide	Rabbit - Dermal - LD50
	> 5,000 mg/kg
	Rat - Male - Inhalation - LC50 Dusts and mists
	6.82 Mg/l [4 h]

Conclusion/Summary : Mixture.Not fully tested.

Skin corrosion/irritation

Conclusion/Summary : Mixture.Not fully tested.

Serious eye damage/eye irritation

Conclusion/Summary: Mixture.Not fully tested.

Respiratory corrosion/irritation

Conclusion/Summary : Mixture.Not fully tested.

Respiratory or skin sensitization

Skin

Conclusion/Summary : Mixture.Not fully tested.

Respiratory

Conclusion/Summary : Mixture.Not fully tested.

Germ cell mutagenicity

Conclusion/Summary : Mixture.Not fully tested.

Carcinogenicity

Conclusion/Summary : Mixture.Not fully tested.

Classification



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Product/ingredient name	OSHA	IARC	NTP
Titanium oxide	ı	2B	-
Quartz (SiO2)	+	1	Known to be a human carcinogen.

Reproductive toxicity

Conclusion/Summary : Mixture. Not fully tested.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Result
Quartz (SiO2)	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) -
	Category 1

Aspiration hazard

Not available.

Information on the likely routes of exposure

Not available.

Potential acute health effects

Eye contactNo known significant effects or critical hazards.InhalationNo known significant effects or critical hazards.Skin contactNo known significant effects or critical hazards.IngestionNo known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: No specific data.Inhalation: No specific data.Skin contact: No specific data.Ingestion: No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.



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Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary : Mixture.Not fully tested.

General:No known significant effects or critical hazards.Carcinogenicity:No known significant effects or critical hazards.Mutagenicity:No known significant effects or critical hazards.Reproductive toxicity:No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral	Dermal	Inhalation (gases)	Inhalation (vapors)	Inhalation (dusts and mists)
Titanium oxide	N/A	N/A	N/A	N/A	6.82 Mg/l

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	
RED TPV	Remarks: Chemicals are not readily available as they are bound	
	within the polymer matrix.	
Titanium oxide	Acute LC50 Marine water	
	Fish - Fundulus heteroclitus	
	$> 1,000 \mathrm{Mg/l} [96 \mathrm{h}]$	
	Acute LC50 Fresh water	
	Crustaceans - Ceriodaphnia dubia	
	3 Mg/l [48 h]	
	Acute LC50 Fresh water	



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Daphnia - *Daphnia pulex* 6.5 Mg/l [48 h]

Conclusion/Summary : Not available.

Persistence and degradability

Not available.

Conclusion/Summary : Chemicals are not readily available as they are bound within the

polymer matrix.

Bioaccumulative potential

Not available.

Mobility in soil

Soil/Water partition coefficient

Mobility

: Chemicals are not readily available as they are bound within the

polymer matrix.

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 contact with soil, waterways, drains and sewers.



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Section 14. Transport information

U.S.DOT 49CFR : Not regulated for transportation.

Ground/Air/Water

IATA : Not classified as dangerous goods under transport regulations.

IMDG : Not classified as dangerous goods under transport regulations.

Section 15. Regulatory information

U.S. Federal regulations

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

TSCA 8(a) - Preliminary assessment report (PAIR): Quinacridone; Tetrahydrofuran;

TSCA 12(b) - Chemical export notification

Not applicable.

Clean Air Act Section 112(b) : Not listed

Hazardous Air Pollutants (HAPs)

Clean Air Act Section 602 Class I : Not listed

Substances

Clean Air Act Section 602 Class : Not listed

II Substances

DEA List I Chemicals (Precursor: Not listed

Chemicals)

DEA List II Chemicals (Essential: Not listed

Chemicals)

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Not applicable.



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Composition/information on ingredients

No products were found.

Name	%	Classification
Quartz (SiO2)	> 0 - <= 1	CARCINOGENICITY - inhalation - Category 1A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1

State regulations

Massachusetts : The following components are listed:

Limestone Titanium oxide

New York : None of the components are listed.

New Jersey: The following components are listed:

CALCIUM CARBONATE TITANIUM DIOXIDE SILICA, QUARTZ

Pennsylvania: The following components are listed:

LIMESTONE TITANIUM OXIDE

California Prop. 65

WARNING: This product can expose you to chemicals including Titanium dioxide, Quartz, which are 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	-	-
Quartz	-	-

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Chemical Weapons Convention List Schedule I Chemicals

None of the components are listed.



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Chemical Weapons Convention List Schedule II Chemicals

None of the components are listed.

Chemical Weapons Convention List Schedule III Chemicals

None of the components are listed.

Montreal Protocol

None of the components are listed.

Stockholm Convention on Persistent Organic Pollutants

Annex A - Elimination - Production

None of the components are listed.

Annex A - Elimination - Use

None of the components are listed.

Annex B - Restriction - Production

None of the components are listed.

Annex B - Restriction - Use

None of the components are listed.

Annex C - Unintentional - Production

None of the components are listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Rotterdam Convention on Prior Informed Consent (PIC) - Industrial

None of the components are listed.

Rotterdam Convention on Prior Informed Consent (PIC) - Pesticide

None of the components are listed.

Rotterdam Convention on Prior Informed Consent (PIC) -Severely hazardous pesticide

None of the components are listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Heavy metals - Annex 1

None of the components are listed.

POPs - Annex 1 - Production

None of the components are listed.



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POPs - Annex 1 - Use

None of the components are listed.

POPs - Annex 2

None of the components are listed.

POPs - Annex 3

None of the components are listed.

Inventory list

Australia : All components are listed or exempted.

Canada : At least one component is not listed in DSL but all such

components are listed in NDSL.

China : All components are listed or exempted.

Eurasian Economic Union : Russian Federation inventory: Not determined.

Japan : Japan inventory (CSCL): Not determined.

Japan inventory (ISHL): Not determined.

New ZealandAll components are listed or exempted.PhilippinesAll components are listed or exempted.Republic of KoreaAll components are listed or exempted.TaiwanAll components are listed or exempted.

Thailand : Not determined.
Turkey : Not determined.

United States : All components are active or exempted.

Viet Nam : Not determined.

Section 16. Other information

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

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

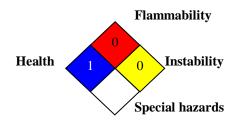


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National Fire Protection Association (U.S.A.)



Procedure used to derive the classification

Not classified.

History

Date of printing 11/06/2025 Date of issue/Date of revision 11/05/2025 Date of previous issue 11/03/2025

Version 1.1

Prepared by EHS BATCH

Key to abbreviations ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor DOT = Department of Transportation

GHS = Globally Harmonized System of Classification and Labelling of

Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods IMO = International Maritime Organization

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)

N/A = Not availableSGG = Segregation Group

TDG = Transportation of Dangerous Goods

UN = United Nations Not available.

References

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.



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