## SAFETY DATA SHEET



Version #: 6,0

Issue date: 23-January-2017 Revision date: 22-November-2023 Supersedes date: 23-May-2022

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Name of the substance Terpene Resin

Trade name of the

SYLVARES™ TR B115

substance

Identification number - Registration number -

Synonyms None. SDS number 8745

**Product code** 20000000290

1.2. Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** Industrial uses: Uses of substances as such or in preparations at industrial sites. Formulation

[mixing] of preparations and/or re-packaging (excluding alloys).

Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

Company name Kraton Chemical B.V.

Address Transistorstraat 16, 1322 CE Almere, The Netherlands

Phone +31 36 546 2800

Email address regulatory.eu@kraton.com

1.4. Emergency telephone EU NCEC +44 1865 407 333

number

## **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

The substance has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

#### Classification according to Regulation (EC) No 1272/2008 as amended

This substance does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

## 2.2. Label elements

#### Label according to Regulation (EC) No. 1272/2008 as amended

Contains: Polyterpene Resin

Hazard pictograms None.
Signal word None.

**Hazard statements** The substance does not meet the criteria for classification.

Precautionary statements

**Prevention** Observe good industrial hygiene practices.

**Response** Wash hands after handling.

**Storage** Store away from incompatible materials.

**Disposal** Dispose of waste and residues in accordance with local authority requirements.

Supplemental label information None.

2.3. Other hazards May form explosible dust-air mixture if dispersed. This mixture does not contain substances

assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII. The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

Material name: SYLVARES™ TR B115

8745 Version #: 6,0 Revision date: 22-November-2023 Issue date: 23-January-2017

## **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

#### General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Polyterpene Resin	99 - 100	Proprietary	-	-	
		-			
CI	assification: -				

## List of abbreviations and symbols that may be used above

CLP: Regulation No. 1272/2008. DSD: Directive 67/548/EEC.

M: M-factor

vPvB: very persistent and very bioaccumulative substance. PBT: persistent, bioaccumulative and toxic substance.

#: This substance has been assigned Community workplace exposure limit(s).

**Composition comments** The full text for all R- and H-phrases is displayed in section 16.

#### **SECTION 4: First aid measures**

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

4.1. Description of first aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Wash off with soap and water. Get medical attention if irritation develops and persists. Skin contact Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists. Eye contact

Rinse mouth. Get medical attention if symptoms occur. Ingestion 4.2. Most important symptoms Dusts may irritate the respiratory tract, skin and eyes.

and effects, both acute and

delaved

Treat symptomatically.

immediate medical attention and special treatment needed

4.3. Indication of any

#### **SECTION 5: Firefighting measures**

General fire hazards May form combustible dust concentrations in air.

5.1. Extinguishing media

Suitable extinguishing

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Apply extinguishing media

carefully to avoid creating airborne dust.

Unsuitable extinguishing

media

media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture High concentration of airborne dust may form explosive mixture with air. Static charges generated by emptying package in or near flammable vapour may cause flash fire. During fire, gases hazardous to health may be formed. Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

In case of fire and/or explosion do not breathe fumes. Wear suitable protective equipment. Move

5.3. Advice for firefighters

Special protective equipment for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting

containers from fire area if you can do so without risk.

procedures

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Wear appropriate personal protective equipment.

For emergency responders

Keep unnecessary personnel away.

6.2. Environmental precautions Avoid discharge into drains, water courses or onto the ground.

8745 Version #: 6,0 Revision date: 22-November-2023 Issue date: 23-January-2017

#### 6.3. Methods and material for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Stop the flow of material, if this is without risk.

Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Following product recovery, flush area with water.

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal.

Never return spills to original containers for re-use.

6.4. Reference to other sections

Not available.

#### **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

Minimise dust generation and accumulation. Avoid significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Explosion-proof general and local exhaust ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices. Follow all SDS/label precautions even after container is emptied because they may retain product residues.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Store at ambient temperature and atmospheric pressure.

Not available.

**SECTION 8: Exposure controls/personal protection** 

## 7.3. Specific end use(s)

## 8.1. Control parameters

#### Occupational exposure limits

Additional components	Туре	Value	Form
Dust	MAK	5 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
	STEL	20 mg/m3	Inhalable fraction.
		10 mg/m3	Respirable fraction.
Belgium. Exposure Limit	t Values		
Additional components	Туре	Value	Form
Dust	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
Finland			
Additional components	Туре	Value	
Dust	TWA	5 mg/m3	
		10 mg/m3	
France, Threshold Limit	Values (VLEP) for Occupational Exposu	re to Chemicals in France. I	NRS ED 984
		Value	Form
Auditional components	Туре	Value	
<u> </u>	VME	5 mg/m3	Respirable fraction.
<u> </u>			
Dust	VME		
Dust	VME	5 mg/m3	Respirable fraction.
Dust  Regulatory status:  Regulatory status:  Germany. DFG MAK List	VME Regulatory binding (VRC)	5 mg/m3 10 mg/m3	Respirable fraction.  Inhalable fraction.
Dust  Regulatory status:  Regulatory status:  Germany. DFG MAK List in the Work Area (DFG)	VME Regulatory binding (VRC) Regulatory binding (VRC)	5 mg/m3 10 mg/m3	Respirable fraction.  Inhalable fraction.
Regulatory status:	VME Regulatory binding (VRC) Regulatory binding (VRC) (advisory OELs). Commission for the Ir	5 mg/m3 10 mg/m3 nvestigation of Health Hazar	Respirable fraction.  Inhalable fraction.  ds of Chemical Compound
Dust  Regulatory status:  Regulatory status:  Germany. DFG MAK List in the Work Area (DFG)  Additional components  Dust	VME Regulatory binding (VRC) Regulatory binding (VRC) (advisory OELs). Commission for the Ir	5 mg/m3  10 mg/m3  nvestigation of Health Hazar  Value  4 mg/m3	Respirable fraction.  Inhalable fraction.  ds of Chemical Compoun  Form

10 mg/m3

Material name: SYLVARES™ TR B115

Dust

8745 Version #: 6,0 Revision date: 22-November-2023 Issue date: 23-January-2017

**AGW** 

Inhalable fraction.

Additional components	Туре	Value	Form
		1,25 mg/m3	Respirable fraction.
Iceland. OELs. Regulation 390/2009 Additional components	on Pollution Limits and Measo Type	ures to Reduce Pollution at the Value	e Workplace, as amend Form
Dust	TWA	5 mg/m3	Respirable dust.
		10 mg/m3	Total dust.
Ireland. Occupational Exposure Lin Additional components	nits Type	Value	Form
Dust	TWA	4 mg/m3	Respirable dust.
		10 mg/m3	Total inhalable dust.
Latvia. OELs. Occupational exposu Additional components	ure limit values of chemical sub Type	stances in work environment Value	Form
Dust	TWA	5 mg/m3	Dust.
Lithuania. OELs. Limit Values for C Additional components	Chemical Substances, General Type	Requirements Value	Form
Dust	TWA	5 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
Netherlands		-	
Additional components	Туре	Value	Form
Dust	TWA (MAC)	5 mg/m3	Respirable dust.
		10 mg/m3	Total dust.
Slovakia. OELs. Regulation No. 300 Additional components	0/2007 concerning protection o Type	f health in work with chemical Value	agents Form
Dust	TWA	10 mg/m3	Dust.
Slovenia. OELs. Regulations conce (Official Gazette of the Republic of	Slovenia)	•	
Additional components	Туре	Value	Form
Dust	TWA	10 mg/m3	Inhalable fraction.
		1,25 mg/m3	Respirable fraction.
Spain. Occupational Exposure Lim Additional components	its Type	Value	Form
Dust	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
Switzerland. SUVA Grenzwerte am Additional components	Arbeitsplatz Type	Value	Form
Dust	TWA	3 mg/m3	Respirable dust.
		10 mg/m3	Inhalable dust.
UK. EH40 Workplace Exposure Lim	nits (WELs)		_
Additional components	Туре	Value	Form
Dust	TWA	4 mg/m3	Respirable dust.
		10 mg/m3	Inhalable dust.
		the ingredient(s).	
ommended monitoring Follow	ological exposure limits noted for v standard monitoring procedures	i.	
ommended monitoring Follow cedures	*		

Material name: SYLVARES™ TR B115

8745 Version #: 6,0 Revision date: 22-November-2023 Issue date: 23-January-2017

Appropriate engineering

controls

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Use personal protective equipment as required. Personal protection equipment should be chosen **General information** 

according to the CEN standards and in discussion with the supplier of the personal protective

equipment.

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove - Hand protection

supplier.

Wear suitable protective clothing. - Other

If engineering controls do not maintain airborne concentrations below recommended exposure Respiratory protection

limits (where applicable) or to an acceptable level (in countries where exposure limits have not

been established), an approved respirator must be worn.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such Hygiene measures as washing after handling the material and before eating, drinking, and/or smoking. Routinely

wash work clothing and protective equipment to remove contaminants. Eye wash fountain and

emergency showers are recommended.

**Environmental exposure** 

controls

Environmental manager must be informed of all major releases. Emissions from ventilation or work

process equipment should be checked to ensure they comply with the requirements of

environmental protection legislation. Fume scrubbers, filters or engineering modifications to the

process equipment may be necessary to reduce emissions to acceptable levels.

## **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties

Physical state Solid **Form** Flakes. Light yellow Colour Odour Odourless. Melting point/freezing point Not available.

Boiling point or initial boiling

point and boiling range

Not available.

**Flammability** Not available.

220,0 °C (428,0 °F) Cleveland open cup ARS #2018-635 Flash point

**Auto-ignition temperature** Not available. **Decomposition temperature** Not available. Not available. Ha Not available. Kinematic viscosity

Solubility

<0.1 % at 25°C Solubility (water) **Partition coefficient** Not available.

(n-octanol/water) (log value)

<0,001 mm Hg at 20°C Vapour pressure

Density and/or relative density

990,00 kg/m3 at 20°C Density

Relative density 0,99 at 25°C/25°C; (water=1)

Vapour density Not available. **Particle characteristics** Not available.

9.2. Other information

9.2.1. Information with regard No relevant additional information available. to physical hazard classes

9.2.2. Other safety characteristics

**Chemical family** Polyterpene Resin 0 (n-BuAc=1) estimated **Evaporation rate** 

Percent volatile > 0,9 - < 1,1 % EPA Method 24

> 112 - < 118 °C (> 233,6 - < 244,4 °F) Ring & Ball Softening point

Material name: SYLVARES™ TR B115 8745 Version #: 6,0 Revision date: 22-November-2023 Issue date: 23-January-2017

11100 cP Brookfield at 150°C **Viscosity** 

Weighted solids 100 %

## **SECTION 10: Stability and reactivity**

10.1. Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Material is stable under normal conditions. 10.2. Chemical stability

10.3. Possibility of hazardous

10.4. Conditions to avoid

decomposition products

reactions

No dangerous reaction known under conditions of normal use.

materials. Minimise dust generation and accumulation.

10.5. Incompatible materials Strong oxidising agents.

10.6. Hazardous

Upon decomposition this product emits acrid dense smoke with carbon dioxide, carbon monoxide,

Strong oxidising agents. Keep away from heat, sparks and open flame. Contact with incompatible

water and other products of combustion.

## **SECTION 11: Toxicological information**

**General information** Not available.

Information on likely routes of exposure

Inhalation Dust may irritate respiratory system.

Skin contact No adverse effects due to skin contact are expected. Direct contact with eyes may cause temporary irritation. Eve contact

Polyterpene Resin Irritation Corrosion - Eye, No eye irritation.

Result: Negative Species: Albino rabbit Organ: Eye

Observation Period: 72 hr

May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of Ingestion

occupational exposure.

**Symptoms** Dusts may irritate the respiratory tract, skin and eyes.

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Based on available data, the classification criteria are not met. **Acute toxicity** 

**Test Results** Components **Species** 

Polyterpene Resin

Acute

**Dermal** 

Albino rabbit > 10000 mg/kg, 14 days At this dose no LD50

death occurred.

Oral

LD50 Wistar rat > 10000 mg/kg, 14 days At this dose no

death occurred.

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Corrosivity

Polyterpene Resin In vitro Skin Corrosion: Human Skin Model Test,

Non-irritating to the skin.; OECD 431

Result: Negative Test Duration: 60 min

Notes: OECD 431, EC Method B,40

Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary irritation.

**Eve contact** 

Polyterpene Resin Irritation Corrosion - Eye, No eye irritation.

> Result: Negative Species: Albino rabbit

Organ: Eye

Observation Period: 72 hr

Respiratory sensitisation Not available.

Skin sensitisation This product is not expected to cause skin sensitisation.

8745 Version #: 6,0 Revision date: 22-November-2023 Issue date: 23-January-2017

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

**Skin Sensitisation** 

Polyterpene Resin Local Lymph Node Assay, Not a skin sensitizer.; OECD 429

Result: Negative Species: Mouse

Notes: OECD 429, EC Method B42

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

carcinogenic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work

(as amended)

Not listed.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

Not available.

single exposure

**Aspiration hazard** 

Specific target organ toxicity -

Not available.

repeated exposure

Not available.

Mixture versus substance

No information available.

information

11.2. Information on other hazards

Endocrine disrupting properties

The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU)

2018/605 at levels of 0.1% or higher.

Other information Not available.

## **SECTION 12: Ecological information**

**12.1. Toxicity** The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

12.2. Persistence and

degradability

No data is available on the degradability of this product.

12.3. Bioaccumulative potential

Partition coefficient

Not available.

n-octanol/water (log Kow)

Bioconcentration factor (BCF) Not available

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB

assessment

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation

(EC) No 1907/2006, Annex XIII.

12.6. Endocrine disrupting

properties

The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU)

2018/605 at levels of 0.1% or higher.

**12.7. Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Residual waste Dispose of in accordance with local regulations. Empty containers or liners may retain some

product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

EU waste code The Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Disposal methods/information Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

 $contents/container\ in\ accordance\ with\ local/regional/national/international\ regulations.$ 

**Special precautions** Dispose in accordance with all applicable regulations.

#### **SECTION 14: Transport information**

**ADR** 

**14.1. UN number** Not regulated as dangerous goods.

14.2. UN proper shipping

name

Not regulated as dangerous goods.

Material name: SYLVARES™ TR B115

8745 Version #: 6,0 Revision date: 22-November-2023 Issue date: 23-January-2017

## 14.3. Transport hazard class(es)

Class Not assigned.

Subsidiary risk -

Hazard No. (ADR) Not assigned.
Tunnel restriction code Not assigned.

14.4. Packing group Not assigned.

14.5. Environmental hazards No.

14.6. Special precautions Not assigned.

for user

RID

14.1. UN number Not regulated as dangerous goods.14.2. UN proper shipping Not regulated as dangerous goods.

name

14.3. Transport hazard class(es)

Class Not assigned.

Subsidiary risk

**14.4. Packing group** Not assigned.

14.5. Environmental hazards No.

14.6. Special precautions Not assigned.

for user

ADN

14.1. UN number Not regulated as dangerous goods.14.2. UN proper shipping Not regulated as dangerous goods.

name

14.3. Transport hazard class(es)

Class Not assigned.

Subsidiary risk -

**14.4. Packing group** Not assigned.

14.5. Environmental hazards No.

14.6. Special precautions Not assigned.

for user

**IATA** 

14.1. UN number Not regulated as dangerous goods.14.2. UN proper shipping Not regulated as dangerous goods.

name

14.3. Transport hazard class(es)

Class Not assigned.

Subsidiary risk

**14.4. Packing group** Not assigned.

14.5. Environmental hazards No.

14.6. Special precautions Not assigned.

for user

IMDG

14.1. UN number Not regulated as dangerous goods.14.2. UN proper shipping Not regulated as dangerous goods.

name

14.3. Transport hazard class(es)

Class Not assigned.

Subsidiary risk

**14.4. Packing group** Not assigned.

14.5. Environmental hazards

Marine pollutant

EmS Not assigned. 14.6. Special precautions Not assigned.

for user

14.7. Transport in bulk Not applicable.

according to Annex II of MARPOL 73/78 and the IBC

Code

## **SECTION 15: Regulatory information**

# 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended

Not listed

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

**Authorisations** 

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at

work, as amended.

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Not listed.

Other regulations This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006. The

product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation)

as amended.

**National regulations** Follow national regulation for work with chemical agents.

15.2. Chemical safety

assessment

No Chemical Safety Assessment has been carried out.

Water hazard class

AwSV WGK1

**SECTION 16: Other information** 

List of abbreviations Not available.

References Not available.

Information on evaluation method leading to the

Not applicable.

classification of mixture

Full text of any statements, None.

which are not written out in full

under sections 2 to 15

Revision information Product and Company Identification: EU Poison Centre

SECTION 16: Other information: Disclaimer

**Training information** Follow training instructions when handling this material.

Material name: SYLVARES™ TR B115

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#### **Disclaimer**

KRATON CORPORATION urges each customer or recipient of this SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. The information set forth in this document, as of the date of this document, is based on present knowledge, obtained from reliable sources and made to our reasonable ability and in good faith. Such information is made without any warranty or guarantee whatsoever, and shall establish no legal duty or responsibility on the part of the author(s), their employer or its affiliates. The information given is designed only as guidance and its completeness is not guaranteed. The information is not a quarantee of any specific product properties, features, qualities or specifications.

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