

**SAFETY DATA SHEET**  
according to Regulation (EU) 2020/878

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**Delta T Double Concentrate**

Revision 0  
Revision date 2024-09-19

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

**1.1. Product identifier**

<b>Product name</b>	Delta T Double Concentrate
<b>Other means of identification / UFI</b>	Document Ref: ELS-SDS-4-016

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

<b>Product Use</b>	[SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [PC37] Water treatment chemicals;
<b>Description</b>	For use as an additive in heating and chilled water systems. For industrial use.

**1.3. Details of the supplier of the safety data sheet**

<b>Company</b>	Blended Products Limited
<b>Address</b>	Elsham Wold Industrial Estate Brigg North Lincolnshire DN20 0SP
<b>Web</b>	www.blendedproducts.com
<b>Telephone</b>	+44 (0) 1652 680555
<b>Email</b>	enquiries@blendedproducts.com
<b>Email address of the competent person</b>	technical@blendedproducts.com

**1.4. Emergency telephone number**


<b>Emergency telephone number</b>	+44 (0) 1652 680555
<b>Company</b>	Blended Products Limited Mon - Fri 9.00am - 5.00 pm National Poisons Information Service (NPIS) NHS 111 (England), NHS 24 (Scotland) or NHS Direct (Wales) – dial 111 In Northern Ireland contact your local GP Healthcare Professionals: UK NPIS 0344 892 0111 Email: sds.npis@nhs.net

**SECTION 2: Hazards identification**

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

<b>2.1.2. Classification - EC 1272/2008</b>	Eye Dam. 1: H318; Aquatic Chronic 3: H412;
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**2.2. Label elements**

<b>Hazard pictograms</b>	
<b>Signal Word</b>	Danger

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## 2.2. Label elements

<b>Hazard Statement</b>	Eye Dam. 1: H318 - Causes serious eye damage. Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.
<b>Precautionary Statement: Prevention</b>	P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
<b>Precautionary Statement: Response</b>	P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER/doctor/ .
<b>Precautionary Statement: Disposal</b>	P501 - Dispose of contents/container to an approved hazardous/special waste disposal facility in accordance with local and national regulations

## 2.3. Other hazards

<b>Other hazards</b>	This product does not contain any known or suspected endocrine disruptors. The product has no other reported additional hazards for humans or environment.
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## SECTION 3: Composition/information on ingredients

## 3.2. Mixtures

## EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH No.	Conc. (%w/w)	Classification
Poly(oxy-1,2-ethanediyl), α-[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]-1-disiloxanyl]propyl]-ω-hydroxy-		67674-67-3	614-100-2		3 - 6 %	Eye Dam. 1: H318; Acute Tox. 4: H332; Aquatic Chronic 2: H411;

## Further information

	Full text of Hazard Statements listed in this Section is provided in Section 16.
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## SECTION 4: First aid measures

## 4.1. Description of first aid measures

<b>Inhalation</b>	Move the exposed person to fresh air. If inhaled and patient has difficulty breathing, give oxygen or artificial respiration, call a physician.
<b>Eye contact</b>	Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye.
<b>Skin contact</b>	Wash off immediately with plenty of soap and water. Remove contaminated clothing.
<b>Ingestion</b>	Rinse mouth thoroughly. DO NOT INDUCE VOMITING.

## 4.2. Most important symptoms and effects, both acute and delayed

<b>Inhalation</b>	Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system. May be harmful if inhaled.
<b>Eye contact</b>	Causes serious eye damage.
<b>Skin contact</b>	May cause irritation to skin.
<b>Ingestion</b>	Ingestion may cause nausea and vomiting.

## 4.3. Indication of any immediate medical attention and special treatment needed

<b>Inhalation</b>	If you feel unwell, seek medical advice (show the label where possible).
<b>Eye contact</b>	Risk of serious damage to eyes. Seek medical attention.
<b>Skin contact</b>	Seek medical attention if irritation or symptoms persist.
<b>Ingestion</b>	If you feel unwell, seek medical advice (show the label where possible).

## Further information

	Treat symptomatically. In case of doubt or persistent symptoms, seek medical advice.
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## SECTION 5: Firefighting measures

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## 5.1. Extinguishing media

	Use extinguishing media appropriate to the surrounding fire conditions.
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## 5.2. Special hazards arising from the substance or mixture

	Cool fire exposed containers with waterspray. Burning produces irritating, toxic and obnoxious fumes. Silicon dioxide, carbon oxides, incompletely burned carbon compounds and formaldehyde may be formed in fire conditions.
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## 5.3. Advice for firefighters

	Wear self contained breathing apparatus and protective clothing. Avoid contact with eyes and skin.
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**SECTION 6: Accidental release measures**

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

	Ensure all responders are well trained. Wear suitable protective clothing and eye/face protection. Causes serious eye damage. Avoid contact with skin and eyes. Ensure adequate ventilation of the working area.
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## 6.2. Environmental precautions

	Do not allow product to enter drains. Prevent further spillage if safe. Alert relevant authorities if product spill has contaminated the environment (sewers, waterways, soil, air).
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## 6.3. Methods and material for containment and cleaning up

	Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.
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## 6.4. Reference to other sections

	See section 2, 8 and 13 for further information.
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**SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

	Follow suitable hygiene measures for the handling of chemicals. Ensure adequate ventilation of the working area. Avoid contact with eyes and skin. Wash hands thoroughly after handling. Adopt best Manual Handling considerations when handling, carrying and dispensing.
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## 7.2. Conditions for safe storage, including any incompatibilities

	Store in accordance with local and national regulations. Store at temperatures between 5 °C and 20 °C. Keep in a cool, dry, well ventilated area. Keep away from incompatible materials. Store in original sealed container away from food or feed. Containers that have been opened should be carefully resealed and kept upright to prevent leakage. Use appropriate containment to prevent environmental contamination.
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	Incompatible materials: Oxidising agents.
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## Suitable packaging

	Store in original container. Store in correctly labelled containers. Keep container tightly closed.
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## 7.3. Specific end use(s)

	See section 1.2. Relevant identified uses of the substance or mixture and uses advised against for further information.
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**SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

	Occupational exposure controls.
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## 8.2. Exposure controls



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## 8.2. Exposure controls

8.2.1. Appropriate engineering controls	Ensure adequate ventilation of the working area.
8.2.2. Individual protection measures	Wear protective gloves/protective clothing/eye protection/face protection.
Eye / face protection	Wear eye/face protection. Tightly fitting safety goggles (splash goggles) (e.g. EN 166).
Skin protection - Handprotection	Suitable chemical resistant safety gloves (EN ISO 374-1) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of break through time according to EN ISO 374-1): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc.
Skin protection - Other	Wear suitable protective clothing. Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes).
Respiratory protection	Wear suitable respiratory equipment when necessary. Suitable respiratory protection for lower concentrations or short-term effect: Combination filter for gases/vapours of organic, inorganic, acid inorganic, alkaline compounds and toxic particles (e. g. EN 14387 Type ABEK-P3).
8.2.3. Environmental exposure controls	Avoid release to the environment. Notify the Environmental Agency and local Environmental Health Officer if major spillage occurs.
Occupational exposure controls	Avoid prolonged or repeated exposure. Keep away from food, drink and animal feedingstuffs.

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Clear/Light yellow
Odour	Slight
Odour threshold	No data available
pH	7 - 8
Melting point	0 °C
Freezing Point	0 °C
Initial boiling point	> 101 °C
Flash point	Not applicable.
Evaporation rate	No data available
Flammability (solid, gas)	Not applicable.
Vapour pressure	No data available
Relative Vapour Density	No data available
Density / Relative Density	1.05 (H <sub>2</sub> O = 1 @ 20 °C)
Fat Solubility	No data available
Partition coefficient (P)	No data available
Autoignition temperature	Not applicable.
Viscosity	1.08 mPas (Cone & Plate)
Explosive properties	No data available
Oxidising properties	Not applicable.
Solubility	Soluble in water

## 9.2. Other information

Conductivity	No data available
Surface tension	No data available
Gas group	Not applicable.
Benzene Content	Not applicable.
Lead content	Not applicable.
VOC (Volatile organic compounds)	No data available

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## 9.2.1. Information with regard to physical hazard classes

No additional data is available for this product.

## 9.2.2. Other safety characteristics

No additional data is available for this product.

## SECTION 10: Stability and reactivity

## 10.1. Reactivity

The product does not show reactivity under recommended storage and use conditions.

## 10.2. Chemical stability

Stable under normal conditions.

## 10.3. Possibility of hazardous reactions

Will not decompose if stored and used as recommended.

## 10.4. Conditions to avoid

Heat. Direct sunlight.

## 10.5. Incompatible materials

Oxidising agents.

## 10.6. Hazardous decomposition products

Does not normally decompose. Burning produces irritating, toxic and obnoxious fumes. Silicon dioxide, carbon oxides, incompletely burned carbon compounds and formaldehyde may be formed in fire conditions.

## SECTION 11: Toxicological information

## 11.1 Information on hazard classes

Acute toxicity	May be harmful if inhaled.
Skin corrosion/irritation	May cause irritation to skin.
Serious eye damage/irritation	Causes serious eye damage. Possible risk of irreversible effects.
Respiratory or skin sensitisation	No sensitization effects reported.
Germ cell mutagenicity	No mutagenic effects reported.
Carcinogenicity	No data is available on this product.
Reproductive toxicity	No data is available on this product.
STOT-single exposure	No data is available on this product.
STOT-repeated exposure	No data is available on this product.
Repeated or prolonged exposure	Avoid prolonged or repeated exposure.

## 11.1.4. Toxicological Information

Poly(oxy-1,2-ethanediyl), $\alpha$ -[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]-1-disiloxanyl]propyl]- $\omega$ -hydroxy-	Dermal Rat LD50: >4000 mg/kg	Oral Rat LD50: >2000 mg/kg
	Inhalation Rat LC50/4 h: 2 mg/l	

## 11.2 Information on other hazards

No data is available on this product.

## SECTION 12: Ecological information

## 12.1. Toxicity

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## 12.1. Toxicity

Poly(oxy-1,2-ethanediyl), $\alpha$ -[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]-1-disiloxanyl]propyl]- $\omega$ -hydroxy-	Daphnia EC50/48h: 25.0000 mg/l	Algae IC50/72h: 32.0000 mg/l
	Fish LC50/96h: 6.8000 mg/l	

## 12.2. Persistence and degradability

	Not readily biodegradable.
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## 12.3. Bioaccumulative potential

	Specific test data for the mixture is not available.
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## 12.4. Mobility in soil

	No data is available on this product.
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## 12.5. Results of PBT and vPvB assessment

	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
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## 12.6 Endocrine disrupting properties

	This product does not contain any known or suspected endocrine disruptors.
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## 12.7 Other adverse effects

	Harmful to aquatic life with long lasting effects.
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## SECTION 13: Disposal considerations

## 13.1. Waste treatment methods

	Dispose of in compliance with all local and national regulations.
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## General information

	Contact a licensed waste disposal company.
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## Disposal methods

	This material and its container must be disposed of as hazardous waste.
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## SECTION 14: Transport information

## 14.1. UN number

	The product is not classified as dangerous for carriage.
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## 14.2. UN proper shipping name

	The product is not classified as dangerous for carriage.
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## 14.3. Transport hazard class(es)

	The product is not classified as dangerous for carriage.
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## 14.4. Packing group

	The product is not classified as dangerous for carriage.
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## 14.5. Environmental hazards

	The product is not classified as dangerous for carriage.
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## 14.6. Special precautions for user

	The product is not classified as dangerous for carriage.
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## 14.7 Maritime Transport in bulk according to IMO instruments

	The product is not classified as dangerous for carriage.
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## SECTION 15: Regulatory information

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

<b>Regulations</b>	<p>COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).</p> <p>COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).</p> <p>Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.</p> <p>REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.</p> <p>UK REACH Candidate List of Substances of Very High Concern for Authorisation: Possible trace amounts of: Octamethylcyclotetrasiloxane (CAS#556-67-2) &lt;0.00008% Decamethylcyclopentasiloxane (CAS#541-02-6) &lt;0.00008% Dodecamethylcyclohexasiloxane (CAS# 540-97-6) &lt;0.00008% 1,4-Dioxane (CAS#123-91-1) &lt;0.008ppm.</p> <p>UK REACH Authorisation List (Annex XIV) list of substances subject to authorisation: Not listed.</p> <p>UK REACH Restrictions List (Annex XIV) Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles: Not listed.</p> <p>The Persistent Organic Pollutants Regulations 2007 (SI 2007/3106) as amended: Not listed.</p> <p>The Ozone-Depleting Substances and Fluorinated Greenhouse Gases (Amendment etc.) (EU Exit Regulations 2019 (SI 2019/583): Not listed.</p> <p>The Prior Informed Consent (PIC) Regulations concerning the export and import of hazardous chemicals SI2008/2108 as amended: Not listed.</p>
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## 15.2. Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

## Other information

<b>Acronyms</b>	<p>ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.</p> <p>ADR - Agreement concerning the International Carriage of Dangerous Goods by Road.</p> <p>ATE - Acute Toxicity Estimate.</p> <p>AOX - Adsorbable organic halides.</p> <p>BCF - Bioconcentration factor.</p> <p>BOD - Biological Oxygen Demand.</p> <p>CAS number - Chemical Abstract Service number.</p> <p>CLP - The Classification, Labelling and Packaging Regulation (EC) No 1272/2008</p> <p>CMR effects - Carcinogenic, mutagenic, reprotoxic effects.</p> <p>COD - Chemical Oxygen Demand.</p> <p>CSA - Chemical Safety Assessment.</p> <p>CSR - Chemical Safety Report.</p>
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## Other information

DNEL - Derived-No-Effect-Level.  
 ECHA - European Chemical Agency.  
 EC - European Community.  
 EC number - EINECS and ELINCS numbers (see also EINECS and ELINCS).  
 EEC - European Economic Community.  
 EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway).  
 EINECS - European Inventory of Existing Commercial Chemical Substances.  
 ELINCS - European List of Notified Chemical Substances.  
 EN - European Norm.  
 EU - European Union.  
 EWC - European Waste Catalogue (replaced by LoW – see below).  
 GHS - Globally Harmonized System of Classification and Labelling of Chemicals.  
 IARC - International Agency for Research on Cancer.  
 IATA - International Air Transport Association.  
 IBC : Intermediate Bulk Container.  
 IBC Code - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk.  
 ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air.  
 IMDG - International Maritime Dangerous Goods.  
 IMO - International Maritime Organization.  
 IMSBC - International Maritime Solid Bulk Cargoes.  
 IUCLID - International Uniform Chemical Information Database.  
 IUPAC - International Union of Pure and Applied Chemistry.  
 Kow - n-Octanol - Water Partition Coefficient.  
 LC50 - Lethal concentration resulting in 50 % mortality.  
 LD50 - Lethal dose resulting in 50 % mortality (median lethal dose).  
 LoW - List of Waste.  
 LOEC - Lowest Observed Effect Concentration.  
 LOEL - Lowest Observed Effect Level.  
 NOEC - No Observed Effect Concentration.  
 NOEL - No Observed Effect Level.  
 NOAEC - No Observed Adverse Effect Concentration.  
 NOAEL - No Observed Adverse Effect Level.  
 OECD - Organization for Economic Cooperation and Development.  
 OSHA - Occupational Safety and Health Administration.  
 PBT - Persistent, Bio-accumulative and Toxic.  
 PNEC - Predicted No Effect Concentration.  
 QSAR - Quantitative Structure Activity Relationship.  
 REACH - Regulation 1907/2006/EC concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.  
 RID - Regulations Concerning the International Transport of Dangerous Goods by Rail.  
 SCBA - Self Contained Breathing Apparatus.  
 SDS - Safety Data Sheet.  
 STEL - Short term exposure limit.  
 STOT - Specific Target Organ Toxicity.  
 SVHC - Substances of Very High Concern.  
 UN - United Nations.  
 UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods.  
 UVCB - Chemical Substances of Unknown or Variable Composition, Complex Reaction Products and Biological Materials.  
 VOC - Volatile Organic Compound.  
 vPvB - very Persistent and very Bioaccumulative.

## Text of Hazard Statements in Section 3

Eye Dam. 1: H318 - Causes serious eye damage.  
 Acute Tox. 4: H332 - Harmful if inhaled.  
 Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.

## General information



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## General information

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	<p>Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Blended Products Limited gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Blended Products Limited accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.</p>
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