

SAFETY DATA SHEET	SF-000156-DS
PICO-BREAK™ IN 3,3,4,4,5,5,6,6,7,7,8,8-TRIDECAFLUOROCTAN-1-OL	Version: 10 Issue Date : 7 th November 2025 Supersedes: 31 st January 2024

SAFETY DATA SHEET

Pico-Break™ in 3,3,4,4,5,5,6,6,7,7,8,8-tridecafluorooctan-1-ol

This Safety Data Sheet contains information concerning the potential risks to those involved in handling, transporting and working with the material. This information should be made available to those who may come into contact with the material or are responsible for the use of the material. This Safety Data Sheet is prepared in accordance with formatting described in the REACH Regulation (EC) No 1907/2006, and described in CLP Regulation (EC) No 1272/2008. However, the product is not classified as hazardous and contains no hazardous ingredients and this SDS is considered to be non-mandated and is provided for information only.

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

- 1.1

Product identifier
Pico-Break™ in 3,3,4,4,5,5,6,6,7,7,8,8-tridecafluorooctan-1-ol
- 1.2

Relevant identified uses of the substance or mixture and uses advised against
Laboratory chemical
- 1.3

Details of the supplier of the safety data sheet

Fluidic Sciences Ltd
27-29 Jarman Way
Royston, Hertfordshire
SG8 5HW
United Kingdom
Support@fluidic.com
- 1.4

Emergency telephone number

In case of emergency +44 1223 983957

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) no. 1272/2008 [CLP/GHS]



WARNING

2.2 Label elements

Hazard statements
H315 Causes Skin irritation
H319 Causes Serious eye irritation
H335 May cause respiratory irritation
Combustible liquid.

SAFETY DATA SHEET	SF-000156-DS
PICO-BREAK™ IN 3,3,4,4,5,5,6,6,7,7,8,8-TRIDECAFLUOROOC TAN-1-OL	Version: 10 Issue Date : 7 th November 2025 Supersedes: 31 st January 2024

H302 Harmful if swallowed.
H373 May cause damage to organs (liver, teeth) through prolonged or repeated exposure through ingestion.

Precautionary statements

P264 Wash hands thoroughly after use
P280 Wear Protective Gloves/protective clothing/eye protection/face protection
P332 + P313 If skin irritation occurs get medical advice/attention.
P302 + P352 IF ON SKIN: wash with plenty of soap and water.
P337 + P313 IF eye irritation persists get medical advice/attention.
P304 + P340 IF INHALED Remove to fresh air and keep at rest in a position comfortable for breathing.
P312 call a poison centre/doctor/physician if you feel unwell.

2.3 Other hazards

No known hazards. However, the product must be used in accordance with instructions for use.

SECTION 3: Composition

3.1 Substances

Not applicable – product is a mixture.

3.2 Mixtures

Ingredient	EC	%	Classification
Tridecafluorooctyl-1 dabsylate	n/a	< 0.1	n/a
3,3,4,4,5,5,6,6,7,7,8,8-tridecafluorooctan-1-ol	211-477-1	To 100	Acute Tox 4 H302 STOT RE 2 H373

SECTION 4: First Aid Measures

4.1 Description of first aid measures

EYE CONTACT: Rinse cautiously with water for 15 minutes. Remove contact lenses if present and easy to do so. Consult a physician
INHALATION: Move person into fresh air. If not breathing, give artificial respiration. Consult a physician if symptoms occur.
SKIN CONTACT: Wash with soap and water. If irritation or rash develops, seek medical attention.
INGESTION: If swallowed, Do not induce vomiting. Rinse mouth out with water and seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

INGESTION: No obvious symptoms from single administration
INHALATION: No known symptoms
EYES: Discomfort if first aid not administered
SKIN: Mild discomfort and possible reaction such as itching or redness

For most important known symptoms and effect see sections 2.2 and/or section 11.

4.3 Indication of any immediate medical attention and special treatments needed

Dilute affected areas. No special medical treatment needed.

SECTION 5: Firefighting Measures

5.1 Extinguishing media

Small (incipient) fire must be extinguished with alcohol resistant foam, dry chemical powder or carbon dioxide. Large amounts of water are ineffective. Cool containers with large amounts of water.

SAFETY DATA SHEET	SF-000156-DS
PICO-BREAK™ IN 3,3,4,4,5,5,6,6,7,7,8,8-TRIDECAFLUOROCTAN-1-OL	Version: 10 Issue Date : 7 th November 2025 Supersedes: 31 st January 2024

5.2 Special hazards arising from the substance or mixture
 Carbon Oxides, Hydrogen fluoride.

5.3 Advice for fire fighters
 Wear Self-contained breather apparatus for firefighting if necessary. Use water spray to cool unopened containers.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures
 For spillage of bulk material or quantities > 1 litre, gloves resistant to fluorinated solvents and eye protection recommended. Avoid skin contact and breathing vapours/ mist or gas. Remove all sources of ignition, beware vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

6.2 Environmental precautions
 Prevent further spillage or leakage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and clearing up
 SMALL SPILLS (under 1 litre): Use absorbent material and place in a suitable container for disposal. Wash area with water and detergent.
 LARGE SPILLS: (more than 1 litre): Use appropriate containment to avoid contamination of surrounding area.

6.4 References to other sections
 See section 8 for further advice on protective equipment and section 13 for further advice on disposal.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling
 Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition, no smoking. Take measures to prevent build-up of electrostatic charge.

7.2 Conditions for safe storage, including any incompatibilities
 Keep container tightly closed when not in use. For professional use only. Store in a cool, dry and well-ventilated place.

7.3 Specific end uses(s)
 Use only as directed as a laboratory chemical

SECTION 8. Exposure Controls/Personal Protection

8.1 Control parameters
 Occupational Exposure limit values

No exposure limits

8.2 Exposure controls

Engineering controls
 Normal room ventilation is adequate.

Respiratory protection
 Not required for normal handling.

Hand Protection
 In case of prolonged or repeated contact, wear gloves suitable for fluorinated solvents. Change gloves in accordance with manufacturer’s recommendations.

SAFETY DATA SHEET	SF-000156-DS
PICO-BREAK™ IN 3,3,4,4,5,5,6,6,7,7,8,8-TRIDECAFLUOROCTAN-1-OL	Version: 10 Issue Date : 7 th November 2025 Supersedes: 31 st January 2024

Eye protection
Eye protection recommended

Skin protection
For handling, laboratory coats recommended.

General Hygiene Considerations
Wash hands after handling. Launder contaminated clothing before reuse.

Environmental exposure controls
Precautions should be taken to avoid accidental release of material to water courses.

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties	
Appearance:	Orange liquid
Odour:	No discernible odour
Odour threshold:	no data
pH:	Neutral (not applicable due to low solubility in water)
Melting point:	Liquid at 0°C
Boiling point:	> 100°C
Flashpoint:	Considered non-flammable and will not support combustion
Evaporation rate:	No data
Flammability (solid, gas):	Considered non-flammable and will not support combustion
Upper/lower flammability limits:	No data
Vapour pressure:	No data. Not considered volatile
Vapour density	No data
Relative density	Estimated 1.5 based on starting materials
Solubility in water:	Not soluble in water.
Solubility in other solvents:	Only soluble in fluorinate solvents
Partition coefficient (log Kow)	Solvent Log Kow > 4
Autoignition temperature	No data
Decomposition temperature	> 100°C
Viscosity	Solvent of low viscosity and may enter lungs if swallowed
Explosive properties	Not classified as explosive
Oxidising properties	Not classified as oxidising; contains low level of oxidising agent

9.2 Other information
None

SECTION 10: Stability and Reactivity

- 10.1 Reactivity**
Functionally inert.
- 10.2 Chemical stability**
Stable under recommended conditions.
- 10.3 Possibility of hazardous reactions**
Hazardous polymerisation will not occur.
- 10.4 Conditions to avoid**
Heat, Flames and Sparks. Extremes of temperatures and direct sunlight.

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10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products form under fire conditions. – Carbon Oxides, Hydrogen fluoride.

SECTION 11: Toxicological Information

11.1 Information on toxicological effects

This product has not been tested. Judgements on the expected toxicity of this product have been made based upon consideration of its major components.

(a) acute toxicity	Based on the solvent, estimated to be harmful if swallowed with ATE considered to be 1750 mg/kg
(b) skin corrosion/irritation	Estimated to be slightly irritant to skin, but not classified.
(c) serious eye damage/irritation	Estimated to be slightly irritant to eyes, but not classified.
(d) respiratory/skin sensitisation	Not considered to be a potential skin sensitiser
(e) germ cell mutagenicity	This chemical class is not known to be mutagenic.
(f) carcinogenicity	This chemical class is not known a carcinogen by IARC or U.S. ACGIH, NTP or OSHA.
(g) reproductive toxicity	This chemical class is not known to be toxic for reproduction
(h) STOT-single exposure	This chemical class is not considered hazardous to organs from single exposure
(i) STOT-repeated exposure	The solvent is considered STOT SE2 based on effects to the liver and other haematological changes following repeated oral exposure .
(j) aspiration hazard	The solvent is of low viscosity, but not classified by supplier as Aspiration Toxic

SECTION 12: Ecological Information

This product has not been tested. Judgements on the expected toxicity of this product have been made based upon consideration of its major components.

12.1 Toxicity

This chemical class is not known to be toxic to aquatic organisms. The extremely low water solubility and high molecular weight will make exposure to aquatic organisms unlikely.

12.2 Persistence and degradability

Not considered to be biodegradable. Will persist.

12.3 Bioaccumulative potential

Not considered to be potentially bioaccumulative due to high molecular weight.

12.4 Mobility in soil

The product will not be mobile in the environment due to high molecular weight and low water solubility.

12.5 Results of PBT and vPvB assessment

The product is predicted to be persistent. It is not predicted to be bioaccumulate or toxic.

12.6 Other adverse effects

None known

SECTION 13: Disposal Considerations

13.1 Waste treatment methods

SAFETY DATA SHEET	SF-000156-DS
PICO-BREAK™ IN 3,3,4,4,5,5,6,6,7,7,8,8-TRIDECAFLUOROCTAN-1-OL	Version: 10 Issue Date : 7 th November 2025 Supersedes: 31 st January 2024

Recover and recycle product if possible. If recovery and recycling are not possible disposal to waste water treatment may be possible if in accordance with local regulations.

SECTION 14: Transport Information

Not classified as dangerous goods, no labelling for transport is required

	ADR	IMDG	ICAO
14.1 UN Number	Not applicable	Not applicable	Not applicable
14.2 UN Proper shipping name	Not applicable	Not applicable	Not applicable
14.3 Transport hazard class(es)	Not applicable	Not applicable	Not applicable
14.4 Packing group	Not applicable	Not applicable	Not applicable
14.5 Environmental hazards	Not applicable	Not applicable	Not applicable
14.6 Special precautions for user	Not applicable	Not applicable	Not applicable
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable	Not applicable	Not applicable

SECTION 15: Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
No specific legislation

15.2 Chemical Safety Assessment
A Chemical Safety Assessment has not been carried out for this product.
Chemical safety assessment has been performed on some of the components and no concerns noted in respect to the intended use of this product.

SECTION 16: Other Information

Revision information:
Rebranding updates only

- List of Abbreviations used in this SDS:
- ATE Acute Toxicity Estimate
 - CAS Chemical Abstracts Service
 - CLP Classification, Labelling and Packaging Regulation (EC) no 1272/2008
 - DSD Dangerous Substances Directive 67/548/EEC
 - DPD Dangerous Preparations Directive 1999/45/EC
 - EC European Commission
 - PBT Persistent, Bioaccumulative and Toxic
 - REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) no 1907/2006
 - STOT Specific target organ toxicity
 - vPvB very Persistent, very Bioaccumulative

References
Source: European Chemicals Agency, <http://echa.europa.eu/>

SAFETY DATA SHEET	SF-000156-DS
PICO-BREAK™ IN 3,3,4,4,5,5,6,6,7,7,8,8-TRIDECAFLUOROCTAN-1-OL	Version: 10 Issue Date : 7 th November 2025 Supersedes: 31 st January 2024

Method used for classification:
Consideration of starting reagents

H and P Statements used in Section 2 and/or 3
H302 Harmful if swallowed.
H373 May cause damage to organs (liver, teeth) through prolonged or repeated exposure through ingestion

Training requirements for workers
No special training requirements. For professional use only