

SAFETY DATA SHEET

Revision Date 09-February-2025

Revision Number 1

SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY UNDERTAKING

1.1.1 Product Identification

Product Description:	PT-141
Cat No. :	PEP047
CAS No	189691-06-3
Molecular Formula	C50H68N14O10

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

Recommended Use	Laboratory chemicals.
Uses advised against	No Information available

1.3 Details of the supplier of the safety data sheet

Company

Research Scientific Ltd
107-111 Ringwood Road
Christchurch
Dorset
BH23 5RA
United Kingdom

Office Tel:	+44 (0) 1202 155688
E-mail address	support@researchscientific.co.uk

1.4 Emergency telephone number

For information	+44 (0) 1202 155688
Emergency Number	+44 (0) 1202 155688 // +44 (0) 7967 782399

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

According to GB-CLP Regulations UK SI-2019/720 and UK SI 2020/1567 Physical hazards

CLP Classification	Based on the available data; the classification criteria are not met.
Health Hazards	Based on the available data; the classification criteria are not met.
Environmental Hazards	Based on the available data; the classification criteria are not met.

2.2 Classification of the substance or mixture

None Required

2.3 Other Hazards

This product does not contain any known or suspected endocrine disruptors

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Component	PT-141
CAS Number	189691-06-3
Weight	<=100
CLP Classification	N/A

**** For full text of hazard statements: see section 16**

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur.
Self-Protection of the First Aider	No special precautions required

4.2 Most important symptoms and effects, both acute and delayed

None reasonably foreseeable

4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician – Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray, carbon dioxide (CO₂), dry chemical, alcohol-resistant foam.

Extinguishing media which must not be used for safety reasons

No information available.

5.2 Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapours.

Hazardous Combustion Products

Carbon monoxide (CO), Carbon dioxide (CO₂), Nitrogen oxides (NO_x).

5.3 Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment as required.

Avoid dust formation.

6.2 Environmental precautions

Should not be released into the environment.

See Section 12 for additional Ecological Information.

6.3 Methods and material for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

6.4 Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and after work.

7.2 Conditions for safe storage, including any incompatibilities

Store in freezer.

Technical Rules for Hazardous Substances (TRGS) 510 Class 11

Storage Class (LGK) (Germany)

7.3 Specific end use(s)

Use in laboratories

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

Exposure limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies

Biological limit values

This product, as supplied, does not contain any hazardous materials with biological limits established by the region-specific regulatory bodies

Derived No Effect Level (DNEL) / Derived Minimum Effect Level (DMEL)

No information available

Predicted No Effect Concentration (PNEC)

No information available.

8.2 Exposure controls

Engineering Measures

None under normal use conditions.

Personal protective equipment

Eye Protection

Wear safety glasses with side shields (or goggles) (European standard - EN 166)

Hand Protection

Protective gloves

Glove material	Nitrile rubber, Neoprene, Natural rubber, PVC
Breakthrough time	See manufacturers recommendations
Glove thickness	N/A
EU standard	EN 374
Glove comments	Minimum Requirement

Skin and body protection

Long sleeved clothing.

Important Notes

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatibility, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

Respiratory Protection

No protective equipment is needed under normal use conditions.

Large scale/emergency use

Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced

Recommended Filter type: Particle filter

Small scale/Laboratory use

Maintain adequate ventilation

Environmental exposure controls

No information available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical State	Solid Lyophilized
Appearance	White - Off-white
Odor	No information available
Odor Threshold	No data available
Melting Point/Range	No data available
Softening Point	No data available
Boiling Point/Range	No information available
Flammability (liquid)	Not Applicable

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Flammability (solid, gas)	No information available	<i>Solid</i>
Explosion Limits	No data available	
Flash Point	No information available	
Autoignition Temperature	No data available	
Decomposition Temperature	No data available	
pH	No information available	
Viscosity	Not Applicable	<i>Solid</i>
Water Solubility	No information available	
Solubility in other solvents	No information available	
Partition Coefficient (n-octanol/water)	No data available	
Vapor Pressure	No data available	
Density / Specific Gravity	No data available	
Bulk Density	No data available	
Vapor Density	Not Applicable	<i>Solid</i>
Particle characteristics	No data available	
9.2 Other Information		
Molecular Formula	C50H68N14O10	
Molecular Weight	No data available	
Evaporation Rate	Not Applicable	<i>Solid</i>

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

None known, based on information available

10.2 Chemical stability

Stable under normal conditions

10.3 Possibility of hazardous reactions**Hazardous Polymerization** No information available.**Hazardous Reactions** None under normal processing.**10.4 Conditions to avoid**

Incompatible products. Excess heat.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition productsCarbon monoxide (CO). Carbon dioxide (CO₂). Nitrogen oxides (NO_x).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**Product Information****(a) acute toxicity:-****Oral** No data available**Dermal** No data available**Inhalation** No data available**(b) skin corrosion/irritation;** No data available**(c) serious eye damage/irritation;** No data available**(d) respiratory or skin sensitization:-****Respiratory** No data available**Skin** No data available**(e) germ cell mutagenicity;** No data available**(f) carcinogenicity;** No data available

There are no known carcinogenic chemicals in this product

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(g) reproductive toxicity;	No data available
(h) STOT-single exposure;	No data available
(i) STOT-repeated exposure;	No data available
Target Organs	No information available.
(j) aspiration hazard;	Not applicable Solid
Symptoms / effects, both acute and delayed	No information available.

11.2 Information on other hazards

Endocrine Disrupting Properties

Assess endocrine disrupting properties for human health. This product does not contain any known or suspected endocrine disruptors.

SECTION 12: STABILITY AND REACTIVITY

10.1 Reactivity

None known, based on information available

12.1 Toxicity

Ecotoxicity effects

Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants.

12.2 Persistence and degradability

No information available

12.3 Bio accumulative potential

No information available

12.4 Mobility in soil

No information available

12.5 Results of PBT and vPvB assessment

No data available for assessment.

12.6 Endocrine disrupting properties**Endocrine Disruptor Information**

This product does not contain any known or suspected endocrine disruptors

12.7 Other adverse effects**Persistent Organic Pollutant**

This product does not contain any known or suspected substance

Ozone Depletion Potential

This product does not contain any known or suspected substance

SECTION 13: DISPOSAL CONSIDERATIONS

10.1 Waste treatment methods**Waste from Residues/Unused Products**

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Contaminated Packaging

Empty remaining contents. Dispose of in accordance with local regulations. Do not re-use empty containers.

European Waste Catalogue (EWC)

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

Other Information

Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: TRANSPORT INFORMATION

14.1 IMDG/IMO	Not regulated
14.2 UN number	Not regulated
14.3 UN proper shipping name	Not regulated
14.4 Transport hazard class(es)	Not regulated
14.5 Packing group	Not regulated
14.6 Environmental hazards	No hazards identified
14.7 Special precautions for user	No special precautions required.
14.8 Maritime transport in bulk according to IMO	Not applicable, packaged goods

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
International Inventories

Europe (EINECS/ELINCS/NLP), China (IECSC), Taiwan (TCSI), Korea (KECL), Japan (ENCS), Japan (ISHL), Canada (DSL/NDSL), Australia (AICS), New Zealand (NZIoC), Philippines (PICCS). US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

Component	CAS Number	EINECS	ELINCS	NLP	IECSC	TCSI	KECL	ENCS	ISHL
PT-141	189691-06-3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Component	CAS Number	TSCA	TSCA Inventory notification Active-Inactive	DSL	NDSL	AICS	NZIoC	PICCS
PT-141	189691-06-3	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Authorisation/Restrictions according to EU REACH

Component	CAS Number	REACH (1907/2006) Annex XIV - Substances Subject to Authorisation	REACH (1907/2006) Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 Candidate List of Substances of Very High Concern (SVHC)
PT-141	189691-06-3	N/A	N/A	N/A

Seveso III Directive (2012/18/EC)

Component	CAS Number	Seveso III Directive (2012/18/EC) Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) Qualifying Quantities for Safety Report Requirements
PT-141	189691-06-3	N/A	N/A

Regulation (EC) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals

Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)?

Not applicable

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work .

National Regulations

UK

Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment

WGK Classification

Water endangering class = 3 (self-classification)

15.2. Chemical safety assessment

A Chemical Safety Assessment/Report (CSA/CSR) has not been conducted

SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3**Legend****CAS** - Chemical Abstracts Service**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances**PICCS** - Philippines Inventory of Chemicals and Chemical Substances**IECSC** - Chinese Inventory of Existing Chemical Substances**KECL** - Korean Existing and Evaluated Chemical Substances**WEL** - Workplace Exposure Limit**ACGIH** - American Conference of Governmental Industrial Hygienists**DNEL** - Derived No Effect Level**RPE** - Respiratory Protective Equipment**LC50** - Lethal Concentration 50%**NOEC** - No Observed Effect Concentration**PBT** - Persistent, Bio accumulative, Toxic**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List**ENCS** - Japanese Existing and New Chemical Substances**AICS** - Australian Inventory of Chemical Substances**NZIoC** - New Zealand Inventory of Chemicals**TWA** - Time Weighted Average**IARC** - International Agency for Research on Cancer Predicted No Effect Concentration (PNEC)**LD50** - Lethal Dose 50%**EC50** - Effective Concentration 50%**POW** - Partition coefficient Octanol: Water**vPvB** - very Persistent, very Bio accumulative**ADR** - European Agreement Concerning the International Carriage of Dangerous Goods by Road**IMO/IMDG** - International Maritime Organization/International Maritime Dangerous Goods Code**OECD** - Organisation for Economic Co-operation and Development**BCF** - Bioconcentration factor**ICAO/IATA** - International Civil Aviation Organization/International Transport Association**MARPOL** - International Convention for the Prevention of Pollution Ships**ATE** - Acute Toxicity Estimate**VOC** - (Volatile Organic Compound)**Key literature references and sources for data** <https://echa.europa.eu/information-on-chemicals>

Suppliers safety data sheet, Research Scientific Ltd

Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Prepared By

Health, Safety and Environmental Department

Revision Date

09-Feb-2025

New emergency telephone response service provider.

This safety data sheet complies with Regulation UK SI 2019/758 and UK SI 2020/1577 as amended.**Disclaimer****The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. 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**

End of Safety Data Sheet