

Version 6.3 Revision Date 15.2.18

According to CLP Regulation (EC) No. 1272/2008

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

1.1 Product identifiers

Product name : ProFlow P+
Product number : PFP+

Brand : Meridian Biotechnologies Ltd

REACH NO. : A registration number is not available for this mixture. All the substances used within the mixture

are either; Pre-REACH registered, fully REACH Registered, exempt from registration or the annual

tonnage does not require registration.

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

Sector of Use : SU24 Scientific research and development

Application of the substance / the mixture : Liquid Scintillation Cocktail

1.3 Details of the supplier of the safety data sheet

Company: Meridian Biotechnologies Ltd, Unit 6,

Epsom Downs Metro Centre,

Waterfield, Tadworth, Surrey KT20 5LR

United Kingdom

Telephone: +44 (0) 20 8397 8316
Fax: +44 (0) 20 8391 1373
E-mail address: info@meridian-biotech.com
Further information obtainable from: Product Safety Department

1.4 Emergency telephone numbers:

During normal opening times: +44 (0) 20 8397 8316

After hours: +44 (0) 7971000273

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Aspiration toxicity

Serious eye damage

Category 1

H304

Category 1

H318

Skin Irritation

Category 1B

H314

Reproductive toxicity

Category 2

H361d

For the full text of the H-Statements mentioned here - see section 16

2.2 Label elements

Classification according to Regulation (EC) No 1272/2008

Hazard pictograms





GHS05

GHS08

Signal word Danger

Hazard statements

H304 May be fatal if swallowed and enters airways H314 Causes severe skin burns and eye damage

H318 Causes serious eye damage

H361d Suspected of damaging the unborn child

Cont...



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Precautionary statements

P201 +P202 Obtain special instructions before use and do not handle until all safety precautions have

been read and understood.

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTRE / DOCTOR.

P304+ P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse

skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses

if present and easy to do - continue rinsing.

2.3 Other hazards

None known

SECTION 3: Composition / Information on Ingredients

3.2 Chemical characterisation: Mixtures

Description: Mixture of substances listed below with non-hazardous additions.

Hazardous components:

Di-isopropylnaphthalene isomers				
CAS #: 38640-62-9	Aspiration Toxicity category 1	H304	40-60%	
EC NUMBER: 254-052-6	Chronic aquatic 1	H410		
REACH: 01-2119565150-48-0000				
Alcohols,C11-15 secondary, ethoxyla	ited	•	•	
CAS #: 68131-40-8	Eye irritation category 1 H318 20-40		20-40%	
EC NUMBER: 614-295-4	Skin irritation category 2	H315		
REACH: Exempt				
Methyl diglycol				
CAS # : 111-77-3	Reproductive toxicity category 2	H361d	5-10%	
EC NUMBER: 203-906-6				
Phosphate Ester				
CAS #: 68130-47-2	Eye damage category 1 H318 2-5%		2-5%	
EC NUMBER: 614-291-2	Skin corrosive category 2	H315		
Phosphate Ester				
CAS #: N/A	Skin irritation category 1b	H314	H314 5-8%	
EC NUMBER: 906-386-5	Eye damage category 1	H318		

For the full text of the H-Statements mentioned here - see section 16

SECTION 4: First Aid Measures

4.1 Description of first aid measures

General information: Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled: Move person into fresh air.

In case of contact with skin contact: Wash off with plenty of water.

In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a

physician. Protect unharmed eye.

If swallowed: Do NOT induce vomiting. Never give anything by mouth to an unconscious

person. Rinse mouth with water. Call for a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.



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SECTION 5: Fire Fighting Measures

5.1 Extinguishing media

Suitable extinguishing agents: Carbon Dioxide, dry powder or water spray.

Fight larger fires with water spray or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture

No further relevant information available.

5.3 Advice for fire-fighters

Special Protective equipment: Wear self-contained respiratory protective device.

Wear fully protective suit.

Further Information: Cool closed containers exposed to fire with water spray.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Use personal protective equipment. Keep unprotected persons away.

Special precautions: Particular danger of slipping on leaked/spilled product.

6.2 Environmental precautions

Environmental precautions: Inform respective authorities in case of seepage into water course.

Dilute with plenty of water.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up: Absorb with liquid binding material (sand, diatomite, acid binders, universal

binders, sawdust).

Ensure adequate ventilation.

Pick up mechanically

Dispose in according to local regulations (see section 13).

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Advice on safe handling: Wear personal protective equipment.

Avoid contact with skin and eyes.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Information about fire and explosion protection:

Keep away from sources of ignition.

Do not smoke.

7.2 Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles:

No special requirements.

Information about storage in one common storage facility:

Not required.

Further information about storage conditions:

Keep container tightly sealed.

Protect from exposure to the light.

7.3 Specific end use(s)

Specific use (s): Advised temperature of use: 10-25°C



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SECTION 8: Exposure Controls / Personal Protection

8.1 Control parameters

Components with workplace control parameters:

Component	CAS - No	Exposure	Value	Control Parameter
Methyl diglycol	111-77-3	WEL	TWA	50.1 mg/m ³ , 10ppm
Di-isopropylnaphthalene	38640-62-9	DNEL	LONG TERM	2.1 mg/kg/d ORAL
isomers				2.1 mg/kg/d DERMAL
				7.4 mg/kg/d INHALATION

8.2 Exposure controls

General protective and hygienic measures:

Handle in accordance with good industrial hygiene and safety

practice.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Do not eat, drink, smoke or sniff while working.

Wear suitable gloves, body and eye protection and a face shield.

Personal Protective Equipment: Respiratory protection: Skin protection:

No personal respiratory protective equipment normally required. Handle with protective gloves. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Selection of the glove material on consideration of the penetration times, rates of diffusion and the

degradation.

Splash contact Material: Nitrile-rubber

Minimum layer thickness: 0.4 mm Break through time: 30 min

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Eye / face protection:Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate

government standards such as NIOSH(US) or EN 166(EU).

Body protection: Protective work clothing - complete suit protecting against

chemicals. The type of protective clothing must be selected according to the concentration and amount of the dangerous

substance at the specified workplace.

Control of environmental exposure Prevent further leakage or spillage if safe to do so. Do not let product

enter drains.



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SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical state: Liquid Form: Colourless

Colour: According to specification

Odour:CharacteristicOdour threshold:Not determinedpH-value:Not determinedMelting point/Melting range:Not determined

Boiling point/Boiling range: 290°C **Flash point:** 149°C

Flammability (solid, gaseous): Not applicable

Ignition temperature: 190°C

Decomposition temperature: Not determined

Self-igniting: Product is not self igniting

Danger of explosion: Product does not present explosion hazard.

Explosion limits:

Lower: 0.4 Vol %
Upper: 4.7 Vol %
Vapour pressure: Not determined
Density at 20 °C: 1 gm/cm³
Relative density Not determined
Vapour density Not determined

Vapour density

Vapour density

Evaporation rate

Solubility in / Miscibility with water:

Particle size

Partition coefficient (n-octanol/water):

Not determined

Not miscible

Not applicable

Not determined

Viscosity:

Dynamic: Not determined **Kinematic:** Not determined

9.2 Other informationNo further relevant information available.

SECTION 10: Stability and Reactivity

10.1 Reactivity:No data available

10.2 Chemical stability Stable under recommended storage conditions.

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions: Reacts with strong oxidising agents and flammable substances.

10.4 Conditions to avoidToxic fumes may be released if heated above decomposition point.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: Carbon monoxide, carbon dioxide, nitrogen oxides and phosphorus

compounds.



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SECTION 11: Toxicological Information

11.1 Information on toxicological effects

Component	CAS - No	LD50 / 48 hours
Di-isopropylnaphthalene isomers	38640-62-9	>4,000 mg/kg (rat) ORAL >4,000 mg/kg (rat) DERMAL >5.6 mg/l (rat) INHALATION
Alcohols, secondary C11-15, ethoxylated	68131-40-8	>3,000 mg/kg (rat) ORAL estimate >2,000 mg/kg (rat) DERMAL estimate
Methyl diglycol	111-77-3	LD50 rat (6,500mg/kg) oral LD50 rat (6,450mg/kg) dermal

Skin corrosion / irritation: Causes skin irritation.

Serious eye damage / eye irritation: Causes serious eye damage.

Respiratory sensitisation: May cause respiratory irritation.

Germ cell mutagenicity: Based on available data, classification criteria not met.

Carcinogenicity: Based on available data, classification criteria not met.

Reproductive toxicity:

Based on available data, suspected of damaging unborn

child.

Specific Target Organ Toxicity – Single Exposure:

Specific Target Organ Toxicity – Repeated Exposure:

Aspiration hazard:

Additional information:

Based on available data, classification criteria not met. Based on available data, classification criteria not met.

May be fatal if swallowed and enters airways.

The toxicological properties have not been fully investigated.

SECTION 12: Ecological Information

12.1 Toxicity

Aquatic toxicity: Degradation / 28d 104% (OECD302B) (Zahn-Wellens on Aniline)

12.2 Persistence and degradability:Biodegradable

12.3 Bio accumulative potential:No further relevant information available.

12.4 Mobility in soil:No further relevant information available.

12.5 Results of PBT and vPvB Assessment: PBT: Not applicable.

vPvB: Not applicable

12.6 Other adverse effects

Additional ecological information:

General notes: Can be disposed of into sewage system with official approval.

SECTION 13: Disposal Considerations

13.1 Waste treatment methods

Product: Must not be disposed together with household garbage.

Uncleaned Packaging: Disposal must be made according to official regulations.



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SECTION 14: Transport Information

14.1 UN-Number

ADR, IMDG, IATA UN1760

14.2 UN proper shipping name -

ADR UN 1760 CORROSIVE LIQUID, N.O.S (contains butyl acid

IMDG/IATA phosphate

14.3 Transport hazard class(es) 8 Corrosive substances

ADR, IMDG, IATA

Class

Label 8

14.4 Packing group -

ADR, IMDG, IATA

14.5 Environmental hazards:

Marine pollutant: Yes

14.6 Special precautions for userWarning: corrosive substances.

Danger code (Kemler): 80 EMS Number: F-A,S-B

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Limited quantities (LQ)5KgExcepted quantities (EQ)Code: E1Maximum net quantity per inner packaging:30gMaximum net quantity per outer packaging:1000gTransport category3Tunnel restriction codeE

IMDG

Limited quantities (LQ) 5L Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30g

Maximum net quantity per outer packaging: 1000g

UN 1760 CORROSIVE LIQUID, N.O.S (contains butyl acid

phosphate), 8, III

SECTION 15: Regulatory Information

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

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

Section 16: Other Information

Hazard statements

H304 May be fatal if swallowed and enters airways
H314 Causes severe skin burns and eye damage

H315 Causes skin irritation

H318 Causes serious eye damage

H361d Suspected of damaging the unborn child H410 Very toxic to aquatic life with long lasting effects

Cont...



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Precautionary statements

P201 +P202 Obtain special instructions before use and do not handle until all safety precautions have been

read and understood.

P260 Do not breathe dust/fume/gas/mist/vapours/spray

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTRE / DOCTOR.

P304+ P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with

water/shower.

P305+P351+P338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if

present and easy to do - continue rinsing.

This based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society) REACH: Registration, Evaluation, Authorisation & restriction of CHemicals