

Version 6.2 Revision Date 01/09/2017

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 G+ Product number : PFG+

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 +44 (0) 20 8397 8316 +44 (0) 20 8391 1373

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

Telephone

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008

Aspiration Toxicity Category 1 H304
Eye Damage Category 1 H318

Skin Irritation Category 2 H315
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.

H315 Causes skin irritation.

H318 Causes serious eye damage.

Cont...



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Precautionary statements

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

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

Rinse skin with water/shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact

lenses if present and easy to do - continue rinsing.

P501 Dispose of contents / container in accordance with local/national regulations.

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	ated		
CAS #: 68131-40-8	Eye irritation category 1	H318	20-40%
EC NUMBER: 614-295-4	Skin irritation category 2	H315	
REACH: Exempt			
Butyl Digol			
CAS #: 112-34-5	Eye irritation category 2	H319	10-15%
EC NUMBER: 203-961-6			
Diethanolamine salt of Phosphate Es	ter		
CAS #: N/A	Eye irritation category 2	H319	2-5%
	Skin irritation category 2	H315	
Diethanolamine salt of Phosphate Es	ster		·
CAS #: N/A	Eye irritation category 2	H319	5-10%

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.

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
Di-isopropylnaphthalene isomers	38640-62-9	DNEL	long term	2.1 mg / kg / d ORAL 2.1 mg / kg / d DERMAL 7.4 mg / kg / d INHALATION
Butyl Digol	112-34-5	DNEL	long term	67.3 mg / kg / d INHALATION

8.2 Exposure controls

Splash contact

Eye / face protection:

Body protection:

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.

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.

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).

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:

Odour threshold:

PH-value:

Melting point/Melting range:

Boiling point/Boiling range:

Flash point:

Characteristic

Not determined

Not determined

> 290°C

149°C

Flammability (solid, gaseous):

Ignition temperature:

Not applicable

Not determined

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 cm³

Relative density
Vapour density
Evaporation rate
Solubility in / Miscibility with water:
Particle size
Not determined
Not determined
Miscible
Not applicable

Particle size Not applicable Partition coefficient (n-octanol/water): 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.

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 Number	Value LD50/ LC50
Di-isopropylnaphthalene isomers	38640-62-9	>4000 mg/kg (rat) ORAL >4000 mg/kg (rat) DERMAL >5.6 mg/L (rat) INHALATION
Alcohols, secondary C11-15, ethoxylated	68131-40-8	>3000 mg/kg (rat) ORAL estimate >2000 mg/kg (rat) DERMAL estimate
Butyl Digol	112-34-5	>2000 < 5000 mg/kg (rat) ORAL >20000 < 5000 mg/kg (rabbit) 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:

Carcinogenicity:

Reproductive toxicity:

Specific Target Organ Toxicity – Single Exposure:

Specific Target Organ Toxicity – Repeated Exposure:

Based on available data, classification criteria not met.

Aspiration hazard: May be fatal if swallowed and enters airways.

Additional information: 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 rubbish.

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



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SECTION 14: Transport Information

14.1 UN-Number

ADR, ADN, IMDG, IATA Void

14.2 UN proper shipping name -

ADR, ADN, IMDG, IATA Void

14.3 Transport hazard class(es)

ADR, ADN, IMDG, IATA

Class Void

14.4 Packing group

ADR, IMDG, IATA Void

14.5 Environmental hazards:

Marine pollutant: No

14.6 Special precautions for user Not applicable.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

UN "Model Regulation"

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.

H315 Causes skin irritation.

H318 Causes serious eye damage. H319 Causes serious eye irritation.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

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

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

Rinse skin with water/shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact

lenses if present and easy to do – continue rinsing.

P501 Dispose of contents / container in accordance with local/national regulations.

This information is 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.

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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)