

Version 6.2 Revision Date 01/09/2017

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

Page 1 of 7

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

### 1.1 Product identifiers

Product name : ProSafe TS +  
Product number : PSTS+  
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	Category 1	H304
Skin Irritation	Category 2	H315
Serious eye damage	Category 1	H318

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



GHS07



GHS08

Signal word

Danger

Hazard statements

H304	Maybe fatal if swallowed and enters airways.
H315	Causes skin irritation.
H318	Causes serious eye damage.

Cont...

Version 6.2 Revision Date 01/09/2017

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

Page 2 of 7

### Precautionary statements

P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	If SWALLOWED: Immediately call a POISON CENTRE / DOCTOR.
P302+P352	IF ON SKIN: Wash with plenty of water.
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.

### 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 EC NUMBER: 254-052-6 REACH: 01-2119565150-48-0000	Asp tox 1 Chronic aquatic 1	H304 H410	50-100%
Alcohols, secondary C11-15, ethoxylated			
CAS #: 68131-40-8 EC NUMBER: 614-295-4 REACH: Exempt	Eye irritation category 1 Skin irritation category 2	H318 H315	10-30%
Phosphate Ester			
CAS #: 12645-31-7 EC NUMBER: 235-741-0 REACH: Pre registered	Skin irritation category 2 Eye irritation category 2	H315 H319	2-5%
Phosphate Ester			
CAS #: 68186-45-8 EC NUMBER: 269-041-1 REACH: Pre registered	Eye irritation category 2	H319	2-5%

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

<b>General information:</b>	Consult a physician. Show this safety data sheet to the doctor in attendance.
<b>If inhaled:</b>	Move person into fresh air.
<b>In case of contact with skin contact:</b>	Wash off with plenty of water.
<b>In case of eye contact:</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Protect unharmed eye.
<b>If swallowed:</b>	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.

## 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).  
Use neutralising agent  
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.  
Avoid inhalation of vapour or mist.  
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.

Version 6.2 Revision Date 01/09/2017

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

Page 4 of 7

**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: 20-25 °C

## SECTION 8: Exposure Controls / Personal Protection

**8.1 Control parameters**

**Components with workplace control parameters:**

Component	CAS – No	Exposure	Value	General
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

**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.  
 Avoid inhalation of vapour or mist.  
 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: 240 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.

## SECTION 9: Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

Physical state:	Liquid
Form:	Liquid
Colour:	Colourless
Odour:	Characteristic
Odour threshold:	Not determined
pH-value:	Not determined
Melting point/Melting range:	Not determined
Boiling point/Boiling range:	290-305°C
Flash point:	149°C
Flammability (solid, gaseous):	Not applicable
Ignition temperature:	Not determined
Self-igniting:	Product is not self igniting
Danger of explosion:	Product does not present an explosion hazard
Explosion limits:	Not determined
Vapour pressure:	0.0005 mm Hg at 20°C
Density at 20 °C:	1.0 gm/cm <sup>3</sup>
Vapour density	Not determined
Evaporation rate	Not determined
Solubility in / Miscibility with water:	<10ppm
Particle size	NA
Partition coefficient (n-octanol/water):	Not determined
Viscosity:	
Dynamic:	Not determined
Kinematic:	Not determined

**9.2 Other information** No further relevant information available.

## SECTION 10: Stability and Reactivity

<b>10.1 Reactivity:</b>	<b>No data available</b>
<b>10.2 Chemical stability</b>	Stable under recommended storage conditions
<b>10.3 Possibility of hazardous reactions:</b>	No decomposition if used according to specifications. Reacts with strong oxidising agents. Reacts with flammable substances.
<b>10.4 Conditions to avoid</b>	Toxic fumes may be released if heated above decomposition point.
<b>10.5 Incompatible materials:</b>	No further relevant information available.
<b>10.6 Hazardous decomposition products:</b>	Carbon monoxide, carbon dioxide and phosphorus compounds

## SECTION 11: Toxicological Information

### 11.1 Information on toxicological effects

Component	CAS - No	LD50 / 48 hours
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 <i>estimate</i> >2000 mg/kg (rat) DERMAL <i>estimate</i>
Phosphate Ester	68186-45-8	>2.0g/kg (rat) ORAL <i>estimate</i>

**Acute toxicity:**
**Skin corrosion / irritation:**
**Serious eye damage / eye irritation:**
**Respiratory sensitisation:**
**Germ cell mutagenicity:**
**Carcinogenicity:**
**Reproductive toxicity:**
**Specific Target Organ Toxicity – Single Exposure:**
**Specific Target Organ Toxicity – Repeated Exposure:**
**Aspiration hazard:**
**Additional information:**

Causes severe skin burns.

Causes serious eye damage.

Causes respiratory irritation.

Based on available data, classification criteria not met.

Based on available data, classification criteria not met.

Based on available data, classification criteria not met.

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.



Version 6.2 Revision Date 01/09/2017

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

Page 7 of 7

## SECTION 14: Transport Information

<b>14.1 UN-Number</b> ADR, ADN, IMDG, IATA	Void
<b>14.2 UN proper shipping name -</b> ADR, ADN, IMDG, IATA	Void
<b>14.3 Transport hazard class(es)</b> ADR, ADN, IMDG, IATA Class	Void
<b>14.4 Packing group</b> ADR, IMDG, IATA	Void
<b>14.5 Environmental hazards:</b> Marine pollutant:	No
<b>14.6 Special precautions for user</b>	Not applicable.
<b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> · UN "Model Regulation"	Not applicable.

## 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	Maybe 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

P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	If SWALLOWED: Immediately call a POISON CENTRE / DOCTOR.
P302+P352	IF ON SKIN: Wash with plenty of water.
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.

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.

### 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

CAS: Chemical Abstracts Service (division of the American Chemical Society)