

SOLO+

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

1.1. Product identifier

Product name	SOLO+
Product code	SOL001

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

Product Use	[SU22] Professional uses: Public domain (administration, education, entertainment, services, craftsmen);
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1.3. Details of the supplier of the safety data sheet

Company	Solus Scientific Solutions Limited
Address	9 Mansfield Networkcentre, Millennium Business Park Concord Way Mansfield NG19 7JZ UK
Web	www.solusscientific.com
Telephone	+44 (0)1623 429701
Fax	+44 (0)1623 620977
Email	Solus.info@perkinelmer.com
Email address of the competent person	Solus.info@perkinelmer.com

1.4. Emergency telephone number


Emergency telephone number	
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.2. Classification - EC 1272/2008	Skin Irrit. 2: H315; Eye Irrit. 2: H319;
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2.2. Label elements

Hazard pictograms	
Signal Word	Warning
Hazard Statement	Skin Irrit. 2: H315 - Causes skin irritation. Eye Irrit. 2: H319 - Causes serious eye irritation.

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2.2. Label elements

Precautionary Statement: Prevention	P264 - Wash thoroughly after handling. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statement: Response	P302+P352 - IF ON SKIN: Wash with plenty of water/ . P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P321 - Specific treatment (see on this label). P332+P313 - If skin irritation occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention.

Further information

Full text for all Risk Phrases mentioned in this section are displayed in Section 16.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Buffer					10 - 20%	Skin Irrit. 2: H315; Eye Irrit. 2: H319; STOT SE 3: H335;
Lithium chloride		7447-41-8	231-212-3		1 - 10%	Acute Tox. 4: H302; Skin Irrit. 2: H315; Eye Irrit. 2: H319; STOT SE 3: H335;

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air. Seek medical attention if irritation or symptoms persist.
Eye contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention.
Skin contact	Rinse immediately with plenty of water. Seek medical attention if irritation or symptoms persist.
Ingestion	Rinse mouth thoroughly. Drink 1 to 2 glasses of water. Seek medical attention if irritation or symptoms persist.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation	May cause irritation to respiratory system.
Eye contact	May cause irritation to eyes.
Skin contact	May cause irritation to skin.
Ingestion	Ingestion may cause nausea and vomiting.

4.3. Indication of any immediate medical attention and special treatment needed

If you feel unwell, seek medical advice (show the label where possible).

SECTION 5: Firefighting measures

5.1. Extinguishing media

Use as appropriate: Water spray. Alcohol resistant foam. Carbon dioxide (CO₂). Dry chemical.

5.2. Special hazards arising from the substance or mixture

Burning produces irritating, toxic and obnoxious fumes.

5.3. Advice for firefighters

Wear: Self-contained breathing apparatus. Protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation of the working area. Wear suitable protective equipment.

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6.2. Environmental precautions

	Avoid release to the environment. Refer to special instructions/Safety data sheets.
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6.3. Methods and material for containment and cleaning up

	Sweep up. Clean the area using a vacuum cleaner. Do not empty into drains; dispose of this material and its container in a safe way.
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SECTION 7: Handling and storage**7.1. Precautions for safe handling**

	Wear suitable protective equipment. Ensure adequate ventilation of the working area. Avoid contact with eyes and skin. When using do not eat, drink or smoke.
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7.2. Conditions for safe storage, including any incompatibilities

	Keep container tightly closed. Keep in a cool, dry, well ventilated area.
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7.3. Specific end use(s)

	Specific use.
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SECTION 8: Exposure controls/personal protection**DNEL: Derived no-effect level.**

	No data available.
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8.2. Exposure controls

8.2.1. Appropriate engineering controls	Ensure adequate ventilation of the working area.
8.2.2. Individual protection measures	Protective clothing. Use appropriate personal protective equipment.
Eye / face protection	safety glasses with side-shields.
Skin protection - Handprotection	Wear suitable gloves.
Skin protection - Other	Wear suitable protective clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. Not normally required.
8.2.3. Environmental exposure controls	Not determined.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

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9.1. Information on basic physical and chemical properties

Appearance	Powder
Colour	Yellow
Odour	Characteristic
Odour threshold	Not applicable.
pH	7 - 7.4
Melting point	No data available
Freezing Point	No data available
Initial boiling point	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Vapour Flammability	No data available
Upper Explosive Limit	No data available
Lower Explosive Limit	No data available
Vapour pressure	Not applicable.
Vapour density	Not applicable.
Relative density	No data available
Water solubility	No data available
Fat Solubility	No data available
Soluble in	No data available
Miscible in	No data available
Partition coefficient (n-octanol/water)	No data available
Partition coefficient	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
Viscosity	Not applicable.
Explosive properties	No data available
Oxidising properties	No data available
Solubility	No data available

9.2. Other information

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9.2. Other information

SADT	No data available
Conductivity	Not applicable.
Surface tension	Not applicable.
Specific gravity	No data available
Bulk Density	No data available
Softening point	No data available
Pour point	No data available
Sublimation Point	No data available
Gas group	Not applicable.
Benzene Content	No data available
Lead content	No data available
VOC (Volatile organic compounds)	No data available
Redox Potential	No data available
Radical Formation Potential	No data available
Photocatalytic Properties	No data available
Electrical Resistance	No data available
Total Solids	No data available
Atomic number	No data available
Mass number	No data available
Chemical Symbol	No data available
Physical Half Life	No data available
Specific Activity	No data available
Activity	No data available
Principle Emissions Beta	No data available
Principle Emissions Gamma	No data available
Principle Emissions Alpha	No data available
Principle Emissions Neutron	No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No Significant Hazard.

10.4. Conditions to avoid

Substance of unknown or variable composition, complex reaction products or biological materials.
Avoid formation of dust. Heat.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

Will not decompose if stored and used as recommended.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

	No Significant Hazard.
Acute toxicity	Not determined.

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11.1. Information on toxicological effects

Skin corrosion/irritation	Not determined.
Serious eye damage/irritation	Not determined.
Respiratory or skin sensitisation	Not determined.
Germ cell mutagenicity	Not determined.
Carcinogenicity	Not determined.
Reproductive toxicity	Not determined.
STOT-single exposure	Not determined.
STOT-repeated exposure	Not determined.
Aspiration hazard	Not determined.
Repeated or prolonged exposure	Not determined.

11.1.4. Toxicological Information

	No data available
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SECTION 12: Ecological information

12.1. Toxicity

	No data available
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12.2. Persistence and degradability

	No data is available on this product.
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12.3. Bioaccumulative potential

	Not determined.
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Partition coefficient

	SOLO+ No data available
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12.4. Mobility in soil

	Not determined.
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12.5. Results of PBT and vPvB assessment

	Not determined.
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12.6. Other adverse effects

	Not determined.
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SECTION 13: Disposal considerations

13.1. Waste treatment methods

	Dispose of in compliance with all. local and national regulations.
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Disposal of packaging

	Can be recycled if in compliance with. local and national regulations. Do NOT reuse empty containers.
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SECTION 14: Transport information

14.1. UN number

	The product is not classified as dangerous for carriage.
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14.2. UN proper shipping name

	The product is not classified as dangerous for carriage.
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14.3. Transport hazard class(es)

The product is not classified as dangerous for carriage.

14.4. Packing group

The product is not classified as dangerous for carriage.

14.5. Environmental hazards

The product is not classified as dangerous for carriage.

14.6. Special precautions for user

The product is not classified as dangerous for carriage.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

The product is not classified as dangerous for carriage.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

EC 1272/2008.

15.2. Chemical safety assessment

Not applicable.

SECTION 16: Other information**Other information**

	The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This 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 other process.
Revision	This document differs from the previous version in the following areas: 2 - 2.1.2. Classification - EC 1272/2008.
Text of Hazard Statements in Section 3	Skin Irrit. 2: H315 - Causes skin irritation. Eye Irrit. 2: H319 - Causes serious eye irritation. STOT SE 3: H335 - May cause respiratory irritation. Acute Tox. 4: H302 - Harmful if swallowed.