

Bovine Serum Albumin

SOLUS ONE E.COLI O157 ELISA ASSAY (EC1-0096 & EC1-0480)

SECTION 1: Identification of the s	ubstance/mixture and of the co	mpany/underta	king
1.1. Product identifier Product form	: Mixture		
Product name	: SOLUS ONE E.COLI O157 ELI		096 & EC1-0480)
.2. Relevant identified uses of the su			090 & LCT-0480)
	ibstance of mixture and uses advise	ed against	
.2.1. Relevant identified uses			
Main use category	: Laboratory use,Industrial use,Pr	ofessional use	
ndustrial/Professional use spec	: For professional use only		
Jse of the substance/mixture	: For analytical purposes Scientific research and developr Not for human consumption or v		
.2.2. Uses advised against			
lo additional information available			
.3. Details of the supplier of the safe	ty data sheet		
Supplier			
Solus Scientific Solutions Jnit 9, Mansfield Network Centre Millenium Business Park, Concorde Way NG19 7JZ Mansfield Γ +44 (0) 1623 429701 solus.info@perkinelmer.com			
.4. Emergency telephone number			
Emergency number	: +44 (0) 1623 429701		
SECTION 2: Hazards identification 2.1. Classification of the substance of Classification according to Regulation (EC Not classified	r mixture		
Adverse physicochemical, human health	and environmental effects		
lo additional information available			
2.2. Label elements			
Not classified.			
2.3. Other hazards			
This substance/mixture does not meet the PI	•		
his substance/mixture does not meet the vF	PvB criteria of REACH regulation, annex XI	II	
SECTION 3: Composition/informa	tion on ingredients		
8.1. Substances			
lot applicable			
3.2. Mixtures Comments	products not classified as h Directives 67548/EEC, 199	azardous according	arts are manufactured using various to EC regulations, 1272/2008, EC Hazard communication standard
	29CFR 1910-120 Where a component part us	ses products that ar	e classified as hazardous according to
	EC regulations, 1272/2008 communications standard 2		8/45/EC and OSHA Hazard ley are listed below:
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Tris(hydroxymethyl)aminomethane	(CAS-No.) 77-86-1	<= 5	Eye Irrit. 2, H319 STOT SE 3, H335
2M Hydrochloric acid	(CAS-No.) 7647-01-0	<= 5	Met. Corr. 1, H290 Skin Corr. 1, H314 STOT SE 3, H335

(CAS-No.) 9048-46-8 (EC-No.) 232-936-2

STOT SE 3, H335

STOT SE 3, H335

<= 5

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Hydrochloric acid 37%	(CAS-No.) 7647-01-0	<= 3	Met. Corr. 1, H290 Skin Corr. 1, H314 STOT SE 3, H335
Antifoam solution		<= 1	Eye Irrit. 2, H319
5-Chloro-2-methyl-4-isothiazolin-one and 2-methyl-2H isothiazol-3-one solution in glycols (3:1)		<= 0.1	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Inhalation), H331 Skin Corr. 1, H314 Skin Irrit. 2, H315
Sulfuric acid	(CAS-No.) 7664-93-9 (EC-No.) 231-639-5 (EC Index-No.) 016-020-00-8	< 0.05	Acute Tox. 3 (Inhalation:dust,mist), H331 Skin Corr. 1A, H314
Conjugate reagent component of kit contains <0.01% of E.coli 0157 antibody conjugated to Horse Radish Peroxidase		<0.01	Acute Tox. 4 (Oral), H302
Specific concentration limits:			
Name	Product identifier	Specific co	ncentration limits
Sulfuric acid	(CAS-No.) 7664-93-9 (EC-No.) 231-639-5 (EC Index-No.) 016-020-00-8	(5 = <c 15)<="" <="" td=""><td>Skin Irrit. 2, H315 Eye Irrit. 2, H319 n Corr. 1A, H314</td></c>	Skin Irrit. 2, H315 Eye Irrit. 2, H319 n Corr. 1A, H314
Comments :	At the level of concentrations shown ab according to EC Regulations, 1272/200 Hazard communication standard 29CFI Tetramethylbezidine dihydrochloride wi H360D; H319) AL Tox a/s has conclude EC(67/548 or 1999/45) and CLP 1272/2	/, EC Directives R 1910-1200 TI h,0.5% (N-met d the mixture is	s 67548/EEC,1999/45/EC and OSHA MB substrate; (3,3'- hylpyrrolidone; Cas; 872-50-4;
	0.005% of Nigrosin dye added to control	l; cas 8005-03	-6
Full text of H-statements: see section 16			
SECTION 4: First aid measures			
4.1. Description of first aid measures First-aid measures general :	If possible show this sheet, if not availal mouth to an unconscious person. Do no		
First-aid measures after inhalation :	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Give oxygen or artificial respiration if necessary. If breathing difficulties persist : Get medical advice/attention.		
First-aid measures after skin contact :	: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Do not remove clothing if it sticks to the skin. If irritation persists, consult a doctor.		
First-aid measures after eye contact :	: Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.		
First aid massures ofter ingestion	Pince mouth out with water. Do not indu		at madical advice/attention

	Continue mising. If eye initiation persists. Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth out with water. Do not induce vomiting. Get medical advice/attention.
4.2. Most important symptoms and effects, b	oth acute and delayed
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after inhalation	: Vapour/ mist from product, if present, may cause irritation after an excessive inhalation exposure.
Symptoms/effects after skin contact	: Vapour may cause irritation to skin after excessive exposure.
Symptoms/effects after eye contact	: May cause eye irritation. redness, itching, tears.
Symptoms/effects after ingestion	: May cause irritation to the digestive tract. Abdominal pain, nausea.
4.3. Indication of any immediate medical atte	ntion and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the substa	
Hazardous decomposition products in case of fire	: Toxic fumes.
5.3. Advice for firefighters	
Precautionary measures fire	: Keep container tightly closed and away from heat, sparks and flame. Keep away from combustible materials.
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
Other information	: Warn all persons of toxic hazard.

SECTION 6: Accidental release measures			
6.1. Personal precautions, protective equipment and emergency procedures			
General measures	: Isolate from fire, if possible, without unnecessary risk. Do not breathe gas, fumes, vapour or spray. No flames, no sparks. Eliminate all sources of ignition.		
6.1.1. For non-emergency personnel			
Protective equipment	: Wear recommended personal protective equipment.		
Emergency procedures	: Evacuate unnecessary personnel. Mark out the contaminated area with signs and prevent access to unauthorized personnel. Do not touch or walk on the spilled product. Avoid contact with skin, eyes and clothing.		
Measures in case of dust release	: Shelter from vapours by keeping upwind. Ventilate the area thoroughly, especially low lying areas (basements, workpits etc).		
6.1.2. For emergency responders			
Protective equipment	: Equip cleanup crew with proper protection. Use self-contained breathing apparatus and chemically protective clothing.		
Emergency procedures	: Ventilate area.		
6.2. Environmental precautions			
Prevent entry to sewers and public waters. Notify a	uthorities if liquid enters sewers or public waters.		
6.3. Methods and material for containment	and cleaning up		
For containment	: Collect spillage. Contain the spilled material by bunding.		
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Try to stop release if without risk.		

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Avoid formation of vapours. Provide local exhaust or general room ventilation.
Hygiene measures	: Take off immediately all contaminated clothing and wash it before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product.
7.2. Conditions for safe storage, including a	ny incompatibilities
Technical measures	: Ensure adequate ventilation, especially in confined areas.
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Heat sources, Direct sunlight. Keep container closed when not in use.
Incompatible products	: Strong oxidizing agents.
Incompatible materials	: Sources of ignition. Direct sunlight. Heat sources.
Storage temperature	: 2 - 8 °C
Heat and ignition sources	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Storage area	: Store in a dry place. Store in a closed container.
7.3. Specific end use(s)	

For analytical purposes. Scientific research and development. Not for human consumption. PC21 Laboratory chemicals.

SECTION 8: Exposure controls/personal protection				
8.1. Control parameter	ers			
SOLUS ONE E.COLI 0157 ELISA ASSAY				
United Kingdom 1-methyl-2-pyrrolidone (Long Term Exposure Limit): 40 mg.m-3				
Sulfuric acid (7664-93-9)				
United Kingdom	Local name	Sulphuric acid		
United Kingdom	WEL TWA (mg/m³)	0.05 mg/m ³ mist		
United Kingdom	Remark (WEL)	The mist is defined as the thoracic fraction		
United Kingdom Regulatory reference EH40/2005 (Third edition, 2018). HSE				
8.2. Exposure controls				

Appropriate engineering controls:

Handle in accordance with good industrial hygiene and safety procedures. Floors should be impervious, resistant to liquids and easy to clean.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Personal protective equipment:

Avoid all unnecessary exposure.

clothing:				
clothing, gloves and ey	/e/face protection			
e used must comply v	with the specifications of	the regulation 2016/425	and the result	ant standard EN 374
Material	Permeation	Thickness (mm)	Penetratio	on Standard
Nitrile rubber (NBR)	6 (> 480 minutes)	0.11		EN 374
				·
ntains should be avail st liquid splashes.	able in the immediate vi	cinity of any potential exp	oosure. Use ey	ve protection according to EN 166,
pe Use Characteristics S		Standard		
Fine dust,	Dust With side shields		EN 166	
n:				
rs should be available for emergency use	in the immediate vicinit	y of any potential exposu	ire. Keep suita	ble chemically resistant protective
Туре		Standard		
Long sleeved protective clothing		EN ISO 13982		
	use conditions. [In case	of inadequate ventilation	n] wear respira	tony protection
needed under normal			· · ·	
Filter type	•	Condition	<u> </u>	Standard
	e used must comply v Aaterial litrile rubber (NBR) ntains should be avail- st liquid splashes. Use Fine dust, n: s should be available or emergency use	e used must comply with the specifications of Aterial Nitrile rubber (NBR) bitrile splashes. Use Fine dust, Dust n: s should be available in the immediate vicinity frine dust, Dust n: s should be available in the immediate vicinity or emergency use	e used must comply with the specifications of the regulation 2016/425 Permeation Thickness (mm) Aterial Permeation Nitrile rubber (NBR) 6 (> 480 minutes) 0.11 Intains should be available in the immediate vicinity of any potential exposite stiliquid splashes. Characteristics Use Characteristics Fine dust, Dust With side shields n: s should be available in the immediate vicinity of any potential exposutor emergency use	e used must comply with the specifications of the regulation 2016/425 and the result Iterial Permeation Thickness (mm) Penetration Naterial Permeation 0.11 0.11 Intains should be available in the immediate vicinity of any potential exposure. Use eyst liquid splashes. Oharacteristics Use Characteristics Fine dust, Dust With side shields n: s should be available in the immediate vicinity of any potential exposure. Keep suita or emergency use

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and ch	emical properties	
Physical state	: No data available	
Colour	: No data available	
Odour	: No data available.	
Odour threshold	: No data available	
рН	: No data available	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: No data available	
Freezing point	: No data available	
Boiling point	: No data available	
Flash point	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: Non flammable.	
Vapour pressure	: No data available	
Relative vapour density at 20 °C	: No data available	
Relative density	: No data available	
Solubility	: No data available	
Log Pow	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
Explosive properties	: No data available	
Oxidising properties	: No data available	
Explosive limits	: No data available	
9.2. Other information		
Additional information	: Kit consists of microwell plate(s) and various liquid solutions	

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 10: Stability and reactivity
10.1. Reactivity
The product is non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability
Stable under recommended handling and storage conditions (see section 7).
10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.
10.4. Conditions to avoid
Protect from sunlight. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
10.5. Incompatible materials
Strong oxidizers.
10.6. Hazardous decomposition products
No hazardous decomposition products known at room temperature. Thermal decomposition generates :

SECTION 11: Toxicological information	
11.1. Information on toxicological effects	: Not classified
	: Not classified
······································	
Acute toxicity (inhalation)	: Not classified
Sulfuric acid (7664-93-9)	
LD50 oral rat	2140 mg/kg
LC50 inhalation rat (mg/l)	510 mg/m³ 2hr
Skin corrosion/irritation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Respiratory or skin sensitisation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-single exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-repeated exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information		
12.1. Toxicity Hazardous to the aquatic environment, short-term : (acute)	Not classified	
Hazardous to the aquatic environment, long-term : (chronic)	Not classified	
Sulfuric acid (7664-93-9)		
LC50 fish 1	42 mg/l Gambusia affinis (Mosquito fish) 96hr	
EC50 Daphnia 1	29 mg/l Daphnia magna (Water flea) 24hr	
12.2. Persistence and degradability		
SOLUS ONE E.COLI O157 ELISA ASSAY		
Persistence and degradability	No data available.	

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Bovine Serum Albumin (9048-46-8)	
Persistence and degradability	No data available.
Sulfuric acid (7664-93-9)	
Persistence and degradability	No data available.
12.3. Bioaccumulative potential	
SOLUS ONE E.COLI O157 ELISA ASSAY	
Bioaccumulative potential	No data available.
Bovine Serum Albumin (9048-46-8)	
Bioaccumulative potential	No data available.
Sulfuric acid (7664-93-9)	
Bioaccumulative potential	No data available.
12.4. Mobility in soil	
No additional information available 12.5. Results of PBT and vPvB assessment	
SOLUS ONE E.COLI O157 ELISA ASSAY	
This substance/mixture does not meet the PBT criteria	a of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criter	ia of REACH regulation, annex XIII
Component	
Bovine Serum Albumin (9048-46-8)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
12.6. Other adverse effects	
Additional information	: Avoid release to the environment.

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN					
ADR	IMDG	ΙΑΤΑ	ADN	RID	
14.1. UN number	14.1. UN number				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
14.2. UN proper shipping name					
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
14.3. Transport hazard class(es)					
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
14.4. Packing group					
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
14.5. Environmental hazards					
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
No supplementary information available					
14.6. Special precautions for user					
Overland transport					
Not regulated					
Transnort by sea					

Transport by sea Not regulated

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

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

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list Contains no REACH Annex XIV substances Directive 2012/18/EU (SEVESO III)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

SECTION 16: Other information		
Data sources	: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.	
Other information	 Results of 1-methyl-pyrrolidone, short term sampling (pouring of substrate reagent into reagent containers) were below the Short-Term Exposure Limit (STEL) of 80mg/m-3. The Short-term exposure was performed over a 2-minute period and the analyte was below the limit of analytical detection. • Results of 1-methyl-pyrrolidone, long term sampling (60ml of substrate reagent in 3 x 20ml aliquots with air exposure) were below the Long-Term Exposure Limit (STEL) of 40mg/m-3. The Long-term exposure was performed over an 8-hour period and the analyte was below the limit of analytical detection This SDS has been produced by Molekula Ltd. Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from 	

handling or from contact with the above product.

Full text of H- and EUH-statements:		
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3	
Acute Tox. 3 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 3	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Met. Corr. 1	Corrosive to metals, Category 1	
Skin Corr. 1	Skin corrosion/irritation, Category 1	
Skin Corr. 1A	Skin corrosion/irritation, Category 1A	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	
H290	May be corrosive to metals.	
H302	Harmful if swallowed.	
H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	
H319	Causes serious eye irritation.	
H331	Toxic if inhaled.	
H335	May cause respiratory irritation.	

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.