

## SHERGIL 101 (Adhesive - Polystyrene Medium to High Viscosity) Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

	ubstance/mixture and of the company/undertaking
1.1. Product identifier Product form	: Mixture
Product name Product code	: SHERGIL 101 (Adhesive - Polystyrene Medium to High Viscosity) : 90023237
	ostance or mixture and uses advised against
1.2.1. Relevant identified uses	
Main use category	: Laboratory use,Industrial use,Professional use
Industrial/Professional use spec	: For professional use only
Use of the substance/mixture	: For analytical purposes Scientific research and development Not for human consumption or veterinary purposes.
<b>1.2.2. Uses advised against</b> No additional information available	
1.3. Details of the supplier of the safety	y data sheet
Supplier	
Scafell Organics Molekula Ltd Lingfield Way Darlington - England T +44 (0) 3302 000 333 info@molekula.com / kevinbanks@molekula.com	om - <u>www.molekula.com</u>
1.4. Emergency telephone number Emergency number	: +44 (0) 7769276927
SECTION 2: Hazards identification 2.1. Classification of the substance or	mixture
Classification according to Regulation (EC) Flammable liquids, Category 2	No. 1272/2008 [CLP] H225
Skin corrosion/irritation, Category 2	H315
Reproductive toxicity, Category 2	H361d
Specific target organ toxicity — Single exposu	
Specific target organ toxicity — Repeated exp Full text of H statements : see section 16	osure, Category 2 H373
Adverse physicochemical, human health an No additional information available 2.2. Label elements	nd environmental effects
Labelling according to Regulation (EC) No. Hazard pictograms (CLP)	1272/2008 [CLP]
	GHS02 GHS07 GHS08
Signal word (CLP)	: Danger
Hazard statements (CLP)	: H225 - Highly flammable liquid and vapour. H315 - Causes skin irritation. H336 - May cause drowsiness or dizziness. H361d - Suspected of damaging the unborn child. H373 - May cause damage to organs through prolonged or repeated exposure.
Precautionary statements (CLP)	<ul> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources No smoking.</li> <li>P260 - Do not breathe dust/fume/gas/mist/vapours/spray.</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P308+P313 - IF exposed or concerned: Get medical advice/attention.</li> </ul>
2.3. Other hazards	
This substance/mixture does not meet the PB This substance/mixture does not meet the vPv	-

Safety Data Sheet

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

SECTION 3: Composition/info 3.1. Substances Not applicable 3.2. Mixtures	rmation on ingredients			
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
Toluene	(CAS-No.) 108-88-3 (EC-No.) 203-625-9 (EC Index-No.) 601-021-00-3	67 - 69	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304	
Polystyrene	(CAS-No.) 9003-53-6 (EC-No.) 929-203-0	31 - 33	Not classified	

#### 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 available show packaging or label. Never give anything by mouth to an unconscious person. Do not leave affected person unattended.
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 measures after ingestion	: Rinse mouth out with water. Do not induce vomiting. Get medical advice/attention.
4.2. Most important symptoms and effects,	both acute and delayed
Symptoms/effects after inhalation	: May cause drowsiness or dizziness. May cause respiratory irritation.
Symptoms/effects after skin contact	: Causes skin irritation. Itching. Redness, pain.
Symptoms/effects after eye contact	: May cause eye irritation.
Symptoms/effects after ingestion	: May cause irritation to the digestive tract.
Chronic symptoms	: May cause damage to organs through prolonged or repeated exposure. Suspected of damaging the unborn child.

#### **4.3. Indication of any immediate medical attention and special treatment needed** Get immediate medical advice/attention.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Dry powder. Sand. Water spray. Carbon dioxide. Foam.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the substa	ince or mixture
Fire hazard	: Flammable liquid and vapour.
Explosion hazard	: May form flammable/explosive vapour-air mixture.
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	: Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Wear recommended personal protective equipment. Use self-contained breathing apparatus and chemically protective clothing.
Other information	: Warn all persons of toxic hazard.

# SECTION 6: Accidental release measures 6.1. Personal precautions, protective equipment and emergency procedures General measures : Do not handle until all safety precautions have been read and understood. Ventilate the area thoroughly, especially low lying areas (basements, workpits etc). Keep away from

combustible materials.

Safety Data Sheet

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

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). Special attention should be given to low areas/pits where flammable vapours can accumulate.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. 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 au	thorities if liquid enters sewers or public waters.
6.3. Methods and material for containment a	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			
Additional hazards when processed	: Handle empty containers with care because residual vapours are flammable.		
Precautions for safe handling	: Avoid formation of vapours. Avoid contact with skin, eyes and clothing. Do not handle until all safety precautions have been read and understood. Ensure that there is a suitable ventilation system. Do not handle in a confined space.		
Hygiene measures	: Take off immediately all contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace. 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 any incompatibilities			
Technical measures	: Ensure adequate ventilation, especially in confined areas. Proper grounding procedures to avoid static electricity should be followed.		
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. open flames. sparks.		
Heat and ignition sources	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.		
Storage area	: Keep away from combustible materials. Store below 20 °C. 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 or veterinary purposes.

<b>SECTION 8: Exposure</b> 8.1. Control parameters	controls/personal protection			
Toluene (108-88-3)				
United Kingdom	WEL TWA (mg/m³)	191 mg/m³		
United Kingdom	WEL TWA (ppm)	50 ppm		
United Kingdom	WEL STEL (mg/m³)	384 mg/m³		
United Kingdom WEL STEL (ppm) 100 ppm				
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.

Personal protective equipment:

#### Avoid all unnecessary exposure.

#### Materials for protective clothing:

Wear suitable protective clothing, gloves and eye/face protection

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

Hand protection:							
The protective gloves to be used must comply with the specifications of the regulation 2016/425 and the resultant standard EN 374							
Type Material		Permeation	Thickness (mm)	(mm) Penetratio		Standard	
Disposable gloves	Fluoroelast (FKM)	omer	6 (> 480 minutes)	0.7			EN 374
Eye protection:							
Emergency eye wash for designed to protect aga			ble in the immediate vic	inity of any potential expo	osure. Use e	ye protection a	according to EN 166,
Туре		Use		Characteristics		Standard	
Safety goggles, Face sł	nield	Droplet, vap	oours	tightly fitting safety goggles, With EN 166 side shields			
Skin and body protection:							
Emergency safety show clothing readily available			n the immediate vicinity	of any potential exposure	e. Keep suita	ble chemicall	y resistant protective
Type Standard							
Total impervious protective suits, gloves, and boots must be worn to prevent any contact with the product, Flame retardant antistatic protective clothing							
Respiratory protection	ı:						
Keep self contained breathing apparatus readily available for emergency use. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended							
Device		Filter type		Condition		Standard	
Air-Purifying Respirator reusable	(APR),	ABEK		Moist condition, Mist for Protection for Liquid pa	,	EN 14387	

Vapour protection

#### Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
Physical state	: Liquid	
Colour	: Colourless.	
Odour	: aromatic.	
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	: 110	
Flash point	: 4 °C	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: 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		
No additional information available		

OFOTION

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
Flammable liquid and vapour.
10.2. Chemical stability
Flammable liquid and vapour. May form flammable/explosive vapour-air mixture.
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 : Toxic fumes.

<b>SECTION 11: Toxicological in</b>	formation	
11.1. Information on toxicologica	l effects	
Acute toxicity (oral)	: Not classified	
Acute toxicity (dermal)	: Not classified	
Acute toxicity (inhalation)	: Not classified	
SHERGIL 101 (Adhesive - Polystyrene Medium to High Viscosity)		

Shekole for (Autesive - Polystyrene Medium to high Viscosity)	
LD50 oral rat	6900 mg/kg
ATE CLP (oral)	6900 mg/kg bodyweight

Toluene (108-88-3)	
LD50 oral rat	5580 mg/kg
LD50 dermal rabbit	12124 mg/kg
LC50 inhalation rat (Vapours - mg/l/4h)	25.7 mg/l/4h
Skin corrosion/irritation	: Causes skin irritation.
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	: Suspected of damaging the unborn child.
Additional information	: Based on available data, the classification criteria are not met
STOT-single exposure	: May cause drowsiness or dizziness.
Additional information	: Based on available data, the classification criteria are not met
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.
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
Toluene (108-88-3)	
LC50 fish 1	5.8 mg/l Oncorhynchus mykiss (rainbow trout) 96hr
EC50 Daphnia 1	6 mg/l Daphnia magna (Water flea) 48hr

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

EC50 72h algae (1) 245 mg/l Chlorella vulgaris (Fresh water algae) 24hr		
NOEC (chronic)	5.44 mg/l Pimephales promelas (fathead minnow) 7d	
12.2. Persistence and degradability		
SHERGIL 101 (Adhesive - Polystyrene Medium to High Viscosity)		
Persistence and degradability	No data available.	
Toluene (108-88-3)		

Persistence and degradability	Readily biodegradable.
12.3. Bioaccumulative potential	
SHERGIL 101 (Adhesive - Polystyrene Medium to High Viscosity)	
Bioaccumulative potential	No data available.

Toluene (108-88-3)		
BCF fish 1	0.05 mg/l 3d	
Bioconcentration factor (BCF REACH)	90	
12.4. Mobility in soil		
Toluene (108-88-3)		
Ecology - soil	No data available.	
12.5. Results of PBT and vPvB assessment		
SHERGIL 101 (Adhesive - Polystyrene Medium to High Viscosity)		
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		
Component		
Toluene (108-88-3)	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.
Additional information	: Handle empty containers with care because residual vapours are flammable.
Ecology - waste materials	: Avoid release to the environment.

SECTION 14: Transport information n accordance with ADR / RID / IMDG / IATA / ADN				
ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number				
1993	1993	1993	1993	1993
14.2. UN proper shippin	g name			
FLAMMABLE LIQUID, N.O.S.	FLAMMABLE LIQUID, N.O.S.	Flammable liquid, n.o.s.	FLAMMABLE LIQUID, N.O.S.	FLAMMABLE LIQUID, N.O.S.
Transport document descr	iption			
UN 1993 FLAMMABLE LIQUID, N.O.S. (SHERGIL 101 (Adhesive - Polystyrene Medium to High Viscosity)), 3, II, (D/E)	UN 1993 FLAMMABLE LIQUID, N.O.S. (SHERGIL 101 (Adhesive - Polystyrene Medium to High Viscosity)), 3, II	UN 1993 Flammable liquid, n.o.s. (SHERGIL 101 (Adhesive - Polystyrene Medium to High Viscosity)), 3, II	UN 1993 FLAMMABLE LIQUID, N.O.S. (SHERGIL 101 (Adhesive - Polystyrene Medium to High Viscosity)), 3, II	UN 1993 FLAMMABLE LIQUID, N.O.S. (SHERGIL 101 (Adhesive - Polystyrene Medium to High Viscosity)), 3, II
14.3. Transport hazard class(es)				
3	3	3	3	3

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

according to Regulation (EC) No. 1907	/2006 (REACH) with its am	endment Regulation (EU) 2015/83	30	
	3			3
14.4. Packing group				
	II	II		II
14.5. Environmental hazard	\$			
		Departure for the	Dengerous for the	Dengerous for the
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information av	ailable	·		
14.6. Special precautions for	r user			
Overland transport				
Classification code (ADR)	: F1	1		
Special provisions (ADR)	: 27	74, 601, 640C		
Limited quantities (ADR)	: 11			
Excepted quantities (ADR)	: E:	2		
Packing instructions (ADR)	: P	001		
Mixed packing provisions (ADR)	: M	P19		
Portable tank and bulk container in (ADR)	nstructions : T	7		
Portable tank and bulk container s (ADR)		P1, TP8, TP28		
Tank code (ADR)		1.5BN		
Vehicle for tank carriage	: FI	-		
Transport category (ADR)	: 2			
Special provisions for carriage - O		2, S20		
Hazard identification number (Ken	nler No.) : 33	}		
Orange plates	:	33 1993		
Tunnel restriction code (ADR) EAC code	: D. : •3			
Transport by sea				
Special provisions (IMDG)	: 27	74		
Limited quantities (IMDG)	: 1			
Excepted quantities (IMDG)	: E:			
Packing instructions (IMDG)	: P			
IBC packing instructions (IMDG)		C02		
Tank instructions (IMDG)	: T			
Tank special provisions (IMDG)	: TI	P1, TP28, TP8		
EmS-No. (Fire)	: F-	E		
EmS-No. (Spillage)	: S	E		
Stowage category (IMDG)	: B			
Air transport				
PCA Excepted quantities (IATA)	: E:	2		
PCA Limited quantities (IATA)	: Y			
PCA limited quantity max net quar		: 1L		
PCA packing instructions (IATA)	: 3			
PCA max net quantity (IATA)	: 51			
CAO packing instructions (IATA)	: 36			
CAO max net quantity (IATA)	: 60			
Special provisions (IATA)	: A			
ERG code (IATA)	: 31			
Inland waterway transport				
Classification code (ADN)	: F'	1		

### Safety Data Sheet

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

	its amenament regulate
Special provisions (ADN)	: 274, 601, 640C
Limited quantities (ADN)	: 1 L
Excepted quantities (ADN)	: E2
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01
Number of blue cones/lights (ADN)	: 1
Rail transport	
Classification code (RID)	: F1
Special provisions (RID)	: 274, 601, 640C
Limited quantities (RID)	: 1L
Excepted quantities (RID)	: E2
Packing instructions (RID)	: P001
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T7
Portable tank and bulk container special provisions (RID)	: TP1, TP8, TP28
Tank codes for RID tanks (RID)	: L1.5BN
Transport category (RID)	: 2
Colis express (express parcels) (RID)	: CE7
Hazard identification number (RID)	: 33

**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

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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	: None.	

Full text of H- and EUH-statements:		
Asp. Tox. 1	Aspiration hazard, Category 1	
Flam. Liq. 2	Flammable liquids, Category 2	
Repr. 2	Reproductive toxicity, Category 2	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2	
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis	
H225	Highly flammable liquid and vapour.	
H304	May be fatal if swallowed and enters airways.	
H315	Causes skin irritation.	
H336	May cause drowsiness or dizziness.	
H361d	Suspected of damaging the unborn child.	
H373	May cause damage to organs through prolonged or repeated exposure.	

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.