

# SAFETY DATA SHEET

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

1.1. Product identifier	
Trade name or designation of the mixture	20% SDS
Registration number	-
Synonyms	None.
Issue date	16-February-2018
Version number	02
Revision date	27-March-2018
Supersedes date	16-February-2018
1.2. Relevant identified uses of t	the substance or mixture and uses advised against
Identified uses	DNA sample preparation for sequencing
Uses advised against	Not for consumer use.
1.3. Details of the supplier of the	e safety data sheet
Company name	Dovetail Genomics, LLC
Address	2161 Delaware Ave
	Santa Cruz, CA 95060
	United States of America
Telephone	(831) 713-4465
Website	dovetailgenomics.com

Emergency phone number 0 800 680 0425 (access code: 334943)

## **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

#### Classification according to Regulation (EC) No 1272/2008 as amended

#### Health hazards

Skin corrosion/irritation	Category 2	H315 - Causes skin irritation.
Serious eye damage/eye irritation	Category 1	H318 - Causes serious eye damage.
Specific target organ toxicity - single exposure	Category 3 respiratory tract irritation	H335 - May cause respiratory irritation.

#### Hazard summary

Causes serious eye damage. Causes skin irritation. May cause irritation to the respiratory system.

#### 2.2. Label elements

#### Label according to Regulation (EC) No. 1272/2008 as amended

Easer according to Regulation (	
Contains:	Sodium lauryl sulfate
Hazard pictograms	
Signal word	Danger
Hazard statements	
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
Precautionary statements	
Prevention	
P261	Avoid breathing mist or vapour.
P264	Wash thoroughly after handling.
P280	Wear protective gloves/eye protection/face protection.

Response	IF INITIAL FD. Demonstrate from the frank in and have a confertable for her othing			
P304 + P340 P305 + P351 + P338	IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.			
P310	Immediately call a POISON CENTRE/doctor.			
Storage	Not assigned.			
Disposal	Not assigned.			
Supplemental label information	None.			
2.3. Other hazards	Not a PBT or vPvB substance or mixture.			
SECTION 3: Composition/i	information on ingredients			
3.2. Mixtures				
General information				
Chemical name	% CAS-No. / EC No. REACH Registration No. Index No. Notes			
Sodium lauryl sulfate	20 151-21-3 01-2119489461-32-XXXX - 205-788-1			
	n. Sol. 2;H228, Acute Tox. 4;H302, Skin Irrit. 2;H315, Eye Dam. 1;H318, Acute . 4;H332, STOT SE 3;H335, Aquatic Chronic 3;H412			
Composition comments	All concentrations are in percent by weight unless otherwise indicated.			
SECTION 4: First aid meas				
General information	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.			
4.1. Description of first aid meas				
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor/physician if you feel unwell.			
Skin contact	Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.			
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.			
Ingestion	Rinse mouth. Get medical attention if symptoms occur.			
4.2. Most important symptoms and effects, both acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. Skin irritation. May cause redness and pain.			
4.3. Indication of any immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.			
SECTION 5: Firefighting m	leasures			
General fire hazards	No unusual fire or explosion hazards noted.			
5.1. Extinguishing media				
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).			
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.			
5.2. Special hazards arising from the substance or mixture	During fire, gases hazardous to health may be formed.			
5.3. Advice for firefighters				
Special protective equipment for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.			
Special fire fighting procedures	Move containers from fire area if you can do so without risk.			
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.			
SECTION 6: Accidental rel	ease measures			
6.1. Personal precautions, prote	ctive equipment and emergency procedures			
For non-emergency	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear			

For non-emergency personnel	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapour. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.
	Lice personal protection recommended in Section 9 of the SDS

For emergency responders Use personal protection recommended in Section 8 of the SDS.

6.2. Environmental precautions 6.3. Methods and material for containment and cleaning up	Avoid discharge into drains, water courses or onto the ground. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.			
	•	Vipe up with absorbent mate ual contamination.	rial (e.g. cloth, fleece). C	lean surface thoroughly to
	Never return s	spills to original containers fo	or re-use.	
6.4. Reference to other sections	For personal p	protection, see section 8 of t	he SDS. For waste dispo	osal, see section 13 of the SDS.
SECTION 7: Handling and	storage			
7.1. Precautions for safe handling	Do not get this material in contact with eyes. Avoid contact with skin and clothing. Avoid breathing mist or vapour. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.			
7.2. Conditions for safe storage, including any incompatibilities		up. Store in original tightly clo 0 of the SDS).	osed container. Store aw	/ay from incompatible materials
7.3. Specific end use(s)	DNA sample p	preparation for sequencing		
SECTION 8: Exposure cor	itrols/persor	nal protection		
8.1. Control parameters				
Occupational exposure limits	No exposure l	limits noted for ingredient(s).		
Biological limit values	No biological exposure limits noted for the ingredient(s).			
Recommended monitoring procedures	Follow standard monitoring procedures.			
Derived no effect levels (DNELs)	)			
<b>General Population</b>				
Components		Value	Assessment factor	Notes
Sodium lauryl sulfate (CAS 15	(1-21-3)			
Long-term, Systemic, Der Long-term, Systemic, Inh Long-term, Systemic, Ora	alation	2440 mg/kg bw/day 85 mg/m3 24 mg/kg bw/day		
<u>Workers</u>				
Components		Value	Assessment factor	Notes
Sodium lauryl sulfate (CAS 15	51-21-3)			
Long-term, Systemic, Dei Long-term, Systemic, Inh		4060 mg/kg bw/day 285 mg/m3		
Predicted no effect concentration	ns (PNECs)			
Components		Value	Assessment factor	Notes
Sodium lauryl sulfate (CAS 15	(1-21-3)			
Freshwater Marine water Sediment (freshwater)		0.176 mg/l 0.018 mg/l 6.97 mg/kg		

STP 8.2. Exposure controls

Soil

Sediment (marine water)

Appropriate engineering controls Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash fountain and emergency showers are recommended.

0.697 mg/kg

1.29 mg/kg

1.35 mg/l

Individual protection measures, such as personal protective equipmentGeneral informationUse personal protective equipment as required. Personal protection equipment should be chosen<br/>according to the CEN standards and in discussion with the supplier of the personal protective<br/>equipment.Eye/face protectionWear safety glasses with side shields (or goggles) and a face shield.Skin protectionVear appropriate chemical resistant gloves. Nitrile gloves are recommended, but be aware that<br/>the liquid may penetrate the gloves. Frequent change is advisable. Glove thickness approx 5 mm.<br/>Breakthrough time: 60 minutes.

- Other	Wear appropriate chemical resistant clothing.
Respiratory protection	Chemical respirator with organic vapour cartridge and full facepiece.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
Hygiene measures	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.
Environmental exposure controls	Environmental manager must be informed of all major releases.

# **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

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Appearance	
Physical state	Liquid.
Form	Liquid.
Colour	Not available.
Odour	Not available.
Odour threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Does not flash.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	plosive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	Not available.
Solubility(ies)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
9.2. Other information	No relevant additional information available.

# **SECTION 10: Stability and reactivity**

10.1. Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability	Material is stable under normal conditions.
10.3. Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
10.4. Conditions to avoid	Contact with incompatible materials.
10.5. Incompatible materials	Strong oxidising agents.
10.6. Hazardous decomposition products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Sulphur compounds.

# **SECTION 11: Toxicological information**

Occurations	Love cover to the	substance or mix	dura manual	adverse offeste
Occupationa	I expositive to the	substance or mix	dure may cause	adverse effects

General information	Occupational exposure to the substance or mixture may cause
Information on likely routes of e	exposure
Inhalation	May cause irritation to the respiratory system.
Skin contact	Causes skin irritation.

Eye contact	Causes serious eye damage.		
Ingestion	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.		
Symptoms	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. Skin irritation. May cause redness and pain.		
11.1. Information on toxicologica	al effects		
Acute toxicity	May be harmful in contact with skin.		
Components	Species	Test Results	
Sodium lauryl sulfate (CAS 151-21	-3)		
Acute			
Oral		1000	
LD50	Rat	1200 mg/kg	
Skin corrosion/irritation	Causes skin irritation.		
Serious eye damage/eye irritation	Causes serious eye damage.		
Respiratory sensitisation	Due to partial or complete lack	of data the classification is not possible.	
Skin sensitisation	Based on available data, the classification criteria are not met.		
Germ cell mutagenicity	Based on available data, the classification criteria are not met.		
Carcinogenicity	Based on available data, the classification criteria are not met.		
Reproductive toxicity	Based on available data, the classification criteria are not met.		
Specific target organ toxicity - single exposure	May cause respiratory irritation.		
Specific target organ toxicity - repeated exposure	Based on available data, the classification criteria are not met.		
Aspiration hazard	Based on available data, the classification criteria are not met.		
Mixture versus substance information	No information available.		
Other information	None known.		
SECTION 12: Ecological in	nformation		
12.1. Toxicity	Harmful to aquatic life.		

12.1. Toxicity	Harmful to aquatic life.			
Components		Species	Test Results	
Sodium lauryl sulfate (CAS 151-2	21-3)			
Aquatic				
Acute				
Algae	EC50	Desmodesmus subspicatus	> 120 mg/l, 72 hours	
Crustacea	LC50	Brine shrimp (Artemia salina)	3.15 mg/l, 48 Hours	
Fish	LC50	Cyprinodon variegatus	4.1 mg/l, 96 Hours	
Chronic				
Crustacea	NOEC	Ceriodaphnia dubia	0.88 mg/l, 7 days	
12.2. Persistence and degradability	Expected t	Expected to be readily biodegradable.		
12.3. Bioaccumulative potentia	I The pro	oduct is not expected to bioaccumulate.		
Partition coefficient n-octanol/water (log Kow) Sodium lauryl sulfate (CAS 1	51-21-3)	1.6		
Bioconcentration factor (BCF)	Not availat	ble.		
12.4. Mobility in soil	No data av	No data available.		
12.5. Results of PBT and vPvB assessment	Not a PBT	Not a PBT or vPvB substance or mixture.		
12.6. Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.			

# **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Residual waste	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.
EU waste code	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Disposal methods/information	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
Special precautions	Dispose in accordance with all applicable regulations.

# **SECTION 14: Transport information**

ADR

14.1. - 14.6.: Not regulated as dangerous goods.

RID

14.1. - 14.6.: Not regulated as dangerous goods.

ADN

14.1. - 14.6.: Not regulated as dangerous goods.

ΙΑΤΑ

14.1. - 14.6.: Not regulated as dangerous goods.

IMDG

14.1. - 14.6.: Not regulated as dangerous goods.

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

## **SECTION 15: Regulatory information**

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

Not established.

EU regulations

Regulation (EC) No.	1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended
Not listed.	

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Not listed.

#### Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended Not listed.

## **Restrictions on use**

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed.

#### Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended Not listed.

Other regulations

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

National regulations	Follow national regulation for work with chemical agents.			
15.2. Chemical safety assessment	No Chemical Safety Assessment has been carried out.			
SECTION 16: Other information				
List of abbreviations				
	CAS: Chemical Abstract Service.			
	EC50: Effective Concentration, 50%.			
	IATA: International Air Transport Association. IBC: Intermediate Bulk Container.			
	IMDG: International Maritime Dangerous Goods.			
	LC50: Lethal Concentration, 50%.			
	MARPOL: International Convention for the Prevention of Pollution from Ships.			
References	Not available.			
Information on evaluation method leading to the classification of mixture	The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.			
Full text of any H-statements not written out in full under				
Sections 2 to 15	H228 Flammable solid.			
	H302 Harmful if swallowed.			
	H315 Causes skin irritation.			
	H318 Causes serious eye damage.			
	H332 Harmful if inhaled. H335 May cause respiratory irritation.			
	H412 Harmful to aquatic life with long lasting effects.			
Training information	Follow training instructions when handling this material.			
Disclaimer	Dovetail Genomics, LLC cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.			