

# SAFETY DATA SHEET

# 1. Identification

Product identifier Other means of identification Recommended use Recommended restrictions	DG-CRB Crosslink Reversal Buffer None. Buffer. Use in accordance with manufacturer's recommendations.
Manufacturer/Importer/Supplier/	Distributor information
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	+1 866 519 4752 (access code: 334943)

# 2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Serious eye damage/eye irritation	Category 2A
Environmental hazards	Not classified.	
Label elements		



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Signal word	Warning
Hazard statement	Causes serious eye irritation.
Precautionary statement	
Prevention	Wash thoroughly after handling. Wear eye protection/face protection.
Response	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Storage	Not assigned.
Disposal	Not assigned.
Other hazards	None known.
Supplemental information	None.

# 3. Composition/information on ingredients

## Mixtures

Chemical name		CAS number	%
Sodium Dodecyl Sulfate		151-21-3	1 - 2
Composition comments	All concentrations are in percent by weight unless otherwise indicated.		
4. First-aid measures			
Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.		
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.		
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. If eye irritation persists: Get medical advice/attention.		
Ingestion	Rinse mouth. Get medical attention if symptoms occur.		

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Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing	Do not use water jet as an extinguisher, as this will spread the fire.

media	
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	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.
General fire hazards	No unusual fire or explosion hazards noted.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. 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. For personal protection, see section 8 of the SDS.
Methods and materials for	The product is soluble in water.
containment and cleaning up	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.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Avoid contact with eyes. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). Storage temperature: between 2 and 8°C.
8. Exposure controls/perso	onal protection
Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
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. Provide eyewash station.
Individual protection measures, s	such as personal protective equipment
Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin protection	
Hand protection	Wear appropriate chemical resistant gloves. Be aware that the liquid may penetrate the gloves. Frequent change is advisable.
Other	Wear suitable protective clothing.
<b>Respiratory protection</b>	In case of insufficient ventilation, wear suitable respiratory equipment.

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Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
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General hygiene considerations

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.

## 9. Physical and chemical properties

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Appearance	
Physical state	Liquid.
Form	Clear liquid.
Color	Clear.
Odor	Not available.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not combustible.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Soluble.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
10. Stability and reactivity	
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.

Chemical stability	Material is stable under normal conditions.	
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.	
Conditions to avoid	Contact with incompatible materials.	
Incompatible materials	Strong oxidizing agents.	
Hazardous decomposition products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. Nitrogen oxides. Sulfur oxides. Chlorine compounds.	

## 11. Toxicological information

#### Information on likely routes of exposure

Inhalation	No adverse effects due to inhalation are expected.
Skin contact	Causes mild skin irritation.
Eye contact	Causes serious eye irritation.

Ingestion	Expected to be a low ingestion hazard.		
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.		
Information on toxicological eff	ects		
Acute toxicity	Not expected to be acutely toxic.		
Components	Species	Test Results	
Sodium Dodecyl Sulfate (CAS 15	1-21-3)		
<u>Acute</u>			
Oral			
LD50	Rat	1200 mg/kg	
Skin corrosion/irritation	Causes mild skin irritation.	Causes mild skin irritation.	
Serious eye damage/eye irritation	Causes serious eye irritation.		
Respiratory or skin sensitizatio	'n		
<b>Respiratory sensitization</b>	Not a respiratory sensitizer.		
Skin sensitization	This product is not expected to caus	This product is not expected to cause skin sensitization.	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	Not classifiable as to carcinogenicity	y to humans.	
Reproductive toxicity	This product is not expected to cause	se reproductive or developmental effects.	
Specific target organ toxicity - single exposure	Not classified.		
Specific target organ toxicity - repeated exposure	Not classified.		
Aspiration hazard	Not an aspiration hazard.		
Further information	None known.	None known.	

#### 12. Ecological information

Ec	oto	kic	ity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components		Species	Test Results	
Sodium Dodecyl Sulfate (CAS	S 151-21-3)			
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	
Persistence and degradability	No data is ava	No data is available on the degradability of this product.		
Bioaccumulative potential				
Partition coefficient n-octanol / water (log Kow) Sodium Dodecyl Sulfate (CAS 151-21-3) 1.6				
Mobility in soil	This product is	This product is water soluble and may disperse in soil.		
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.		
13. Disposal considerations				
Disposal instructions	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.			

# **Local disposal regulations** Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products

Contaminated packaging

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.

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.

#### 14. Transport information

#### TDG

Not regulated as dangerous goods.

#### ΙΑΤΑ

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not established. Annex II of MARPOL 73/78 and

## the IBC Code

#### 15. Regulatory information

**Canadian regulations** 

This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

Taiwan Chemical Substance Inventory (TCSI)

	contains air the mornation required by the rin r.
Controlled Drugs and Subst	tances Act
Not regulated.	
Export Control List (CEPA 1	999, Schedule 3)
Not listed.	
Greenhouse Gases	
Not listed.	
Precursor Control Regulation	DNS
Not regulated.	
International regulations	
Stockholm Convention	
Not applicable. Rotterdam Convention	
Not applicable.	
Kyoto protocol	
Not applicable.	
Montreal Protocol	
Not applicable. Basel Convention	
Not applicable.	
International Inventories	
Country(s) or region	Inventory name
Australia	Australian Inventory of Chemical Substances (AICS)
Canada	Domestic Substances List (DSL)
Canada	Non-Domestic Substances List (NDSL)
China	Inventory of Existing Chemical Substances in China (IECSC)
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)
Europe	European List of Notified Chemical Substances (ELINCS)
Japan	Inventory of Existing and New Chemical Substances (ENCS)
Korea	Existing Chemicals List (ECL)
New Zealand	New Zealand Inventory
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)

Taiwan

On inventory (yes/no)\*

Yes Yes

No

Yes

Yes

No

Yes Yes Yes

Yes

Yes

#### Country(s) or region

United States & Puerto Rico

#### Inventory name

#### Toxic Substances Control Act (TSCA) Inventory

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### 16. Other information

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List of abbreviations	<ul> <li>CAS: Chemical Abstract Service.</li> <li>CEN: European Committee for Standardization (Comité Européen de Normalisation).</li> <li>EC50: Effective Concentration, 50%.</li> <li>IATA: International Air Transport Association.</li> <li>IBC: Internediate Bulk Container.</li> <li>IMDG: International Maritime Dangerous Goods.</li> <li>LC50: Lethal Concentration, 50%.</li> <li>LD50: Lethal Dose, 50%.</li> <li>MARPOL: International Convention for the Prevention of Pollution from Ships.</li> <li>NOEC: No observed effect concentration.</li> <li>OEL: Occupational Exposure Limit.</li> <li>TDG: Transportation of Dangerous Goods.</li> <li>TWA: Time Weighted Average.</li> </ul>
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.