### SAFETY DATA SHEET

### 1. Identification

**Product identifier DG-CRB Crosslink Reversal Buffer** 

Other means of identification None. Recommended use Buffer.

**Recommended restrictions** Use in accordance with manufacturer's recommendations.

Manufacturer/Importer/Supplier/Distributor information

**Company Name** Dovetail Genomics, LLC 2161 Delaware Ave **Address** Santa Cruz, CA 95060 United States of America

(831) 713-4465 **Telephone** 

Website dovetailgenomics.com

+1 866 519 4752 (access code: 334943) **Emergency phone number** 

2. Hazard(s) identification

**Physical hazards** Not classified.

Serious eye damage/eye irritation Category 2A Health hazards

**Environmental hazards** Not classified.

Label elements



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. Not assigned. **Disposal** 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.

Wash off with soap and water. Get medical attention if irritation develops and persists. Skin contact

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.

Rinse mouth. Get medical attention if symptoms occur. Ingestion

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940398 Version #: 02 Revision date: 27-March-2018 Issue date: 18-February-2018 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). Do not use water jet as an extinguisher, as this will spread the fire.

Unsuitable extinguishing media

During fire, gases hazardous to health may be formed.

Specific hazards arising from the chemical

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special protective equipment and precautions for firefighters

Move containers from fire area if you can do so without risk.

Fire fighting equipment/instructions

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 containment and cleaning up

The product is soluble in water.

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/personal 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, 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.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

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Thermal hazards Wear appropriate thermal protective clothing, when necessary.

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

**Appearance** 

**Physical state** Liquid. Clear liquid. **Form** Color Clear.

Odor Not available. Not available. **Odor threshold** Not available. Not available. Melting point/freezing point Initial boiling point and boiling Not available.

range

Not combustible. Flash point **Evaporation rate** Not available. Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

Not available.

Flammability limit - upper

(%)

Not available. Vapor pressure Not available. Vapor density Not available. Relative density

Solubility(ies)

Soluble. Solubility (water) Partition coefficient Not available.

(n-octanol/water)

Not available. **Auto-ignition temperature Decomposition temperature** Not available. Not available. **Viscosity** 

Other information

**Explosive properties** Not explosive. Oxidizing properties Not oxidizing.

### 10. Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. Reactivity

**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.

Strong oxidizing agents. Incompatible materials

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. **Hazardous decomposition** products

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.

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940398 Version #: 02 Revision date: 27-March-2018 Issue date: 18-February-2018 **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 effects

Acute toxicity Not expected to be acutely toxic.

Components Species Test Results

Sodium Dodecyl Sulfate (CAS 151-21-3)

Acute Oral

LD50 Rat 1200 mg/kg

Skin corrosion/irritation Serious eye damage/eye Causes mild skin irritation.
Causes serious eye irritation.

irritation

Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** 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 to humans.

**Reproductive toxicity**This product is not expected to cause 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.

### 12. Ecological information

Ecotoxicity 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 151-21-3)

Aquatic

Acute

AlgaeEC50Desmodesmus subspicatus> 120 mg/l, 72 hoursCrustaceaLC50Brine shrimp (Artemia salina)3.15 mg/l, 48 HoursFishLC50Cyprinodon variegatus4.1 mg/l, 96 Hours

Chronic

Crustacea NOEC Ceriodaphnia dubia 0.88 mg/l, 7 days

Persistence and degradability

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 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.

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Waste from residues / unused products

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.

### 14. Transport information

#### **TDG**

Not regulated as dangerous goods.

#### **IATA**

Not regulated as dangerous goods.

#### **IMDG**

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and

Not established.

### 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.

#### **Controlled Drugs and Substances Act**

Not regulated.

### Export Control List (CEPA 1999, Schedule 3)

Not listed.

#### **Greenhouse Gases**

Not listed.

#### **Precursor Control Regulations**

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	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes

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Country(s) or region Inventory name On inventory (yes/no)\*

United States & Puerto Rico 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** CAS: Chemical Abstract Service.

CEN: European Committee for Standardization (Comité Européen de Normalisation).

EC50: Effective Concentration, 50%.

IATA: International Air Transport Association.

IBC: Intermediate Bulk Container.

IMDG: International Maritime Dangerous Goods.

LC50: Lethal Concentration, 50%.

LD50: Lethal Dose, 50%.

MARPOL: International Convention for the Prevention of Pollution from Ships.

NOEC: No observed effect concentration. OEL: Occupational Exposure Limit. TDG: Transportation of Dangerous Goods.

TWA: Time Weighted Average.

**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.

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