



The Power to Question

# SAFETY DATA SHEET

Santa Cruz Biotechnology, Inc.

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Version 1.6

## Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product Identifier

Product Name Phalloidin CruzFluor™ 594 Conjugate  
Product Code SC-363795  
Pure substance/mixture mixture

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

For research use only. Not intended for diagnostic or therapeutic use.

### 1.3. Details of the supplier of the safety data sheet

Santa Cruz Biotechnology, Inc.  
10410 Finnell Street  
Dallas, TX 75220  
831.457.3800  
800.457.3801  
scbt@scbt.com

Santa Cruz Biotechnology, Inc.  
Bergheimer Str. 89-2  
69115 Heidelberg, Germany  
+49.6221.4503 0  
+1.800.457.3801  
europe@scbt.com

### 1.4. Emergency telephone number

Chemtrec  
1.800.424.9300 (Within USA)  
+1.703.527.3887 (Outside USA)

## Section 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Acute toxicity - Oral  
Acute toxicity - Dermal  
Acute toxicity - Inhalation (Dusts/Mists)

Category 4 - (H302)  
Category 3 - (H311)  
Category 4 - (H332)

### 2.2. Label Elements

Signal word

Danger

Symbols/Pictograms



Hazard statements

H311 - Toxic in contact with skin  
H302 - Harmful if swallowed  
H332 - Harmful if inhaled

Precautionary Statements - EU (§28, 1272/2008)

P264 - Wash face, hands and any exposed skin thoroughly after handling  
P270 - Do not eat, drink or smoke when using this product  
P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
P330 - Rinse mouth  
P501 - Dispose of contents/ container to an approved waste disposal plant  
P280 - Wear protective gloves and protective clothing  
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water



P312 - Call a POISON CENTER or doctor if you feel unwell  
 P321 - Specific treatment (see Emergency Phone Number on this label)  
 P361 + P364 - Take off immediately all contaminated clothing and wash it before reuse  
 P405 - Store locked up  
 P261 - Avoid breathing dust/fume/gas/mist/vapors/spray  
 P271 - Use only outdoors or in a well-ventilated area  
 P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

### 2.3. Other Hazards

General Hazards

Not applicable

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Molecular Weight ~1600  
 Formula No information available

### 3.2 mixtures

Chemical name	EC No	CAS No.	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Dimethyl sulfoxide	Present	67-68-5	99.2	-
Phalloidin CruzFluor™ 594 Conjugate	-	-	0.8	-

Full text of H- and EUH-phrases: see section 16

## Section 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

General advice Consult a physician if necessary.  
 Inhalation Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.  
 Skin Contact Wash skin with soap and water.  
 Eye contact Wash with plenty of water.  
 Ingestion Never give anything by mouth to an unconscious person. Clean mouth with water.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms No information available.

### 4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

## Section 5: FIRE FIGHTING MEASURES

### 5.1. Extinguishing media

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### 5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical No information available  
 Hazardous combustion products Hydrogen sulfide. Carbon oxides. Nitrogen oxides (NOx).

### 5.3. Advice for firefighters



Special protective equipment for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## Section 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation, especially in confined areas.  
For emergency responders Use personal protection recommended in Section 8.

### 6.2. Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

### 6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.  
Methods for cleaning up Pick up and transfer to properly labeled containers.

### 6.4. Reference to other sections

See Section 12: ECOLOGICAL INFORMATION.

## Section 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Advice on safe handling Highly toxic.  
General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place.

### 7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Material Safety Data Sheet.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical name	European Union	United Kingdom	France	Spain	Germany
Dimethyl sulfoxide 67-68-5					TWA: 50 ppm TWA: 160 mg/m <sup>3</sup> Ceiling / Peak: 100 ppm Ceiling / Peak: 320 mg/m <sup>3</sup> Skin
Component	Italy	Portugal	Netherlands	Finland	Denmark
Dimethyl sulfoxide 67-68-5 ( 99.2 )				TWA: 50 ppm Skin	TWA: 50 ppm TWA: 160 mg/m <sup>3</sup>
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Dimethyl sulfoxide 67-68-5	Skin TWA: 50 ppm TWA: 160 mg/m <sup>3</sup>	Skin STEL: 100 ppm STEL: 320 mg/m <sup>3</sup> TWA: 50 ppm TWA: 160 mg/m <sup>3</sup>			

Derived No Effect Level (DNEL) No information available  
Predicted No Effect Concentration (PNEC) No information available.

### 8.2. Exposure controls

Engineering Controls Showers



Eye/face protection	Eyewash stations Ventilation systems
Skin and Body Protection	Wear safety glasses with side shields (or goggles).
Respiratory protection	Wear protective gloves and protective clothing. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
Environmental exposure controls	No information available.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State	liquid
Appearance	No information available
Odor	No information available

<u>Property</u>	<u>Values</u>
pH	No information available
Melting point/freezing point	No information available
Boiling point	No information available
Flash point	No information available
Liquid Density	No information available
Evaporation rate	No information available
Upper flammability limits	No information available
Lower flammability limit	No information available
Vapor pressure	No information available
Vapor density	No information available
Specific gravity	No information available
Water solubility	No information available
Solubility in other solvents	No information available
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Kinematic viscosity	No information available
Explosive properties	No information available
Oxidizing properties	No information available

## Section 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

Reactivity	Not applicable
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### 10.2. Chemical stability

Stability	Stable under recommended storage conditions.
Sensitivity to Mechanical Impact	No information available.
Sensitivity to Static Discharge	No information available.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization	No information available.
Possibility of Hazardous Reactions	None under normal processing.

### 10.4. Conditions to avoid

Conditions to avoid	Extremes of temperature and direct sunlight.
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### 10.5. Incompatible materials

Incompatible materials	Strong oxidizing agents.
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### 10.6. Hazardous decomposition products

Hazardous Decomposition Products	Hydrogen sulfide. Carbon oxides. Nitrogen oxides (NOx).
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## Section 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### Acute toxicity

Product Information Product does not present an acute toxicity hazard based on known or supplied information.  
Unknown acute toxicity No information available.

The following values are calculated based on chapter 3.1 of the GHS document mg/kg mg/l

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Dimethyl sulfoxide	= 14,500 mg/kg ( Rat )	= 40 g/kg ( Rat )	

## Section 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Ecotoxicity May cause long lasting harmful effects to aquatic life.

Chemical name	Algae/aquatic plants	Fish	Crustacea
Dimethyl sulfoxide	12350 - 25500: 96 h Skeletonema costatum mg/L EC50	34000: 96 h Pimephales promelas mg/L LC50 33 - 37: 96 h Oncorhynchus mykiss g/L LC50 static 40: 96 h Lepomis macrochirus g/L LC50 static 41.7: 96 h Cyprinus carpio g/L LC50	7000: 24 h Daphnia species mg/L EC50

### 12.2. Persistence and degradability

Persistence and degradability No information available.

### 12.3. Bioaccumulative potential

Bioaccumulation No information available.

Chemical name	Partition coefficient
Dimethyl sulfoxide	-2.03

### 12.4. Mobility in soil

Mobility No information available.

### 12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available.

### 12.6. Other adverse effects

Other adverse effects No information available

## Section 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

Waste from residues/unused products Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging Do not reuse container.

## Section 14: TRANSPORT INFORMATION



	<u>RID / ADR</u>	<u>IMDG</u>	<u>ICAO (air) / IATA</u>
<b>14.1 UN/ID no</b>	UN2811	UN2811	UN2811
<b>14.2 Proper shipping name</b>	Toxic solid, organic, n.o.s.	Toxic solid, organic, n.o.s.	Toxic solid, organic, n.o.s.
<b>14.3 Hazard Class</b>	6.1	6.1	6.1
<b>Subsidiary hazard class / Labels</b>	-	-	-
<b>14.4 Packing Group</b>	II	II	II
<b>14.5 14.5 Environmental Hazard</b>	-	-	-
<b>14.6 14.6 Special Provisions</b>	274, 614 Classification code T2 Tunnel restriction code (D/E)	274 EmS-No F-A, S-A	A3, A5 ERG Code 6L

## Section 15: REGULATORY INFORMATION

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

#### National Regulations

Chemical name	French RG number	Title
Dimethyl sulfoxide 67-68-5	RG 84	

#### **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

#### International Inventories

**All of the components in the product are on the following Inventory lists**

No information available

Chemical name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Dimethyl sulfoxide	X	X	-	X	-	X	X	X	X	X

X - Listed

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

### 15.2. Chemical safety assessment

Chemical Safety Report No information available

## Section 16: OTHER INFORMATION

Revision note

No information available.

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

#### **Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**