



The Power to Question

# SAFETY DATA SHEET

Santa Cruz Biotechnology, Inc.

Revision date 15-May-2023

Version 1.3

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

### 1.1. Product Identifier

Product Name	1-Palmitoyl-2-linoleoyl PE
Product Code	SC-204952
CAS No	26662-95-3
Pure substance/mixture	mixture
Contains Chloroform	

### 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 2020/878

Acute toxicity - Oral	Category 4 - (H302)
Acute toxicity - Inhalation (Dusts/Mists)	Category 3 - (H331)
Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Carcinogenicity	Category 2 - (H351)
Reproductive Toxicity	Category 2 - (H361)
Specific target organ toxicity (repeated exposure)	Category 1 - (H372)
Chronic aquatic toxicity	Category 3 - (H412)

### 2.2. Label Elements

Contains Chloroform

Signal word

Danger

Symbols/Pictograms





## Hazard statements

H302 - Harmful if swallowed  
 H315 - Causes skin irritation  
 H319 - Causes serious eye irritation  
 H331 - Toxic if inhaled  
 H351 - Suspected of causing cancer  
 H372 - Causes damage to organs through prolonged or repeated exposure  
 H412 - Harmful to aquatic life with long lasting effects

## 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  
 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  
 P311 - Call a POISON CENTER or doctor/physician  
 P321 - Specific treatment (see Emergency Phone Number on this label)  
 P403 + P233 - Store in a well-ventilated place. Keep container tightly closed  
 P405 - Store locked up  
 P280 - Wear protective gloves  
 P302 + P352 - IF ON SKIN: Wash with plenty of soap and water  
 P332 + P313 - If skin irritation occurs: Get medical advice/attention  
 P362 - Take off contaminated clothing and wash before reuse  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection  
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 P337 + P313 - If eye irritation persists: Get medical advice/attention  
 P201 - Obtain special instructions before use  
 P202 - Do not handle until all safety precautions have been read and understood  
 P281 - Use personal protective equipment as required  
 P308 + P313 - IF exposed or concerned: Get medical advice/attention  
 P260 - Do not breathe dust/fume/gas/mist/vapors/spray  
 P314 - Get medical advice/attention if you feel unwell  
 P273 - Avoid release to the environment

**2.3. Other Hazards**

Other hazards

Harmful to aquatic life

General Hazards

Not applicable



### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Molecular Weight 716.0  
Formula  $C_{35}H_{72}NO_8P$

#### 3.2 mixtures

Chemical name	EC No	CAS No.	Weight-%	Classification according to Regulation (EC) No. 2020/878 [CLP]
Chloroform	Present	67-66-3	95	Acute Tox. 4 (H302) Acute Tox. 3 (H331) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Carc. 2 (H351) Repr. 2 (H361d) STOT RE 1 (H372)
1-Palmitoyl-2-linoleoyl PE	-	26662-95-3	5	-

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

### Section 4: FIRST AID MEASURES

#### 4.1. Description of first aid measures

General advice	If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.
Inhalation	Remove to fresh air. Call a physician. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Immediate medical attention is not required. Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a physician.
Skin Contact	Consult a physician if necessary. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Immediate medical attention is not required.
Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.
Ingestion	Rinse mouth. Drink plenty of water. If symptoms persist, call a physician. Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.
Self-protection of the first aider	Use personal protective equipment as required.

#### 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 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 Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

For emergency responders Use personal protection recommended in Section 8.

### 6.2. Environmental precautions

Environmental precautions Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. 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 Use personal protective equipment as required. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Take up mechanically, placing in appropriate containers for disposal. Avoid creating dust. Clean contaminated surface thoroughly. Soak up with inert absorbent material. Dam up. Pick up and transfer to properly labeled containers. Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water. Take precautionary measures against static discharges.

### 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 Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Use with local exhaust ventilation. Handle in accordance with good industrial hygiene and safety practice. Corrosive hazard. Wear protective gloves/clothing and eye/face protection.

General Hygiene Considerations When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

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

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers.

### 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
Chloroform 67-66-3	S* TWA 2 ppm TWA 10 mg/m <sup>3</sup>	STEL: 6 ppm STEL: 29.7 mg/m <sup>3</sup> TWA: 2 ppm TWA: 9.9 mg/m <sup>3</sup> Skin	TWA: 2 ppm TWA: 10 mg/m <sup>3</sup> STEL: 50 ppm STEL: 250 mg/m <sup>3</sup>	S* TWA: 2 ppm TWA: 10 mg/m <sup>3</sup>	TWA: 0.5 ppm TWA: 2.5 mg/m <sup>3</sup> Ceiling / Peak: 1 ppm Ceiling / Peak: 5 mg/m <sup>3</sup> Skin



Component	Italy	Portugal	Netherlands	Finland	Denmark
Chloroform 67-66-3 ( 95 )	TWA: 2 ppm TWA: 10 mg/m <sup>3</sup> Skin	TWA: 2 ppm TWA: 10 mg/m <sup>3</sup>	STEL: 25 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>	TWA: 2 ppm TWA: 10 mg/m <sup>3</sup> STEL: 4 ppm STEL: 20 mg/m <sup>3</sup> Skin	TWA: 2 ppm TWA: 10 mg/m <sup>3</sup> Skin
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Chloroform 67-66-3	Skin TWA: 2 ppm TWA: 10 mg/m <sup>3</sup>	Skin STEL: 1 ppm STEL: 5 mg/m <sup>3</sup> TWA: 0.5 ppm TWA: 2.5 mg/m <sup>3</sup>	TWA: 8 mg/m <sup>3</sup>	TWA: 2 ppm TWA: 10 mg/m <sup>3</sup> Skin STEL: 4 ppm STEL: 15 mg/m <sup>3</sup>	TWA: 2 ppm TWA: 9.8 mg/m <sup>3</sup> STEL: 6 ppm STEL: 29.4 mg/m <sup>3</sup> Skin

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

**8.2. Exposure controls**

Engineering Controls Showers  
 Eyewash stations  
 Ventilation systems  
 Eye/face protection Tight sealing safety goggles. Face protection shield.  
 Skin and Body Protection Suitable protective clothing. Apron. Gloves made of plastic or rubber.  
 Respiratory protection 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 Do not allow into any sewer, on the ground or into any body of water.

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

Physical State Solid  
 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



## 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	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	5% of the mixture consists of ingredient(s) of unknown toxicity.

#### The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	526.00 mg/kg
ATEmix (dermal)	21,074.00 mg/kg
ATEmix (inhalation-dust/mist)	0.53 mg/l
ATEmix (inhalation-vapor)	50,213.00 mg/l

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Chloroform	= 695 mg/kg ( Rat ) = 450 mg/kg ( Rat )	> 20 g/kg ( Rabbit )	= 47702 mg/m <sup>3</sup> ( Rat ) 4 h = 47702 mg/kg ( Rat ) 4 h

Chemical name	ACGIH	IARC	NTP	OSHA
Chloroform 67-66-3	A3	Group 2A Group 2B Group 3	Reasonably Anticipated	X

ACGIH (American Conference of Governmental Industrial Hygienists) A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer) Group 2A - Probably Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

Not classifiable as a human carcinogen

NTP (National Toxicology Program) Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor) X - Present

Target Organ Effects Central nervous system, Eyes, Kidney, Heart, Liver, Skin.

Chemical name	European Union
Chloroform	Carc. 2

## Section 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Ecotoxicity	May cause long lasting harmful effects to aquatic life.
Unknown aquatic toxicity	5% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Crustacea



Chloroform	560: 48 h <i>Desmodesmus subspicatus</i> mg/L EC50	71: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through 300: 96 h <i>Poecilia reticulata</i> mg/L LC50 static 18: 96 h <i>Lepomis macrochirus</i> mg/L LC50 flow-through 18: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 flow-through	29: 48 h <i>Daphnia magna</i> mg/L EC50
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**12.2. Persistence and degradability**

Persistence and degradability No information available.

**12.3. Bioaccumulative potential**

Bioaccumulation No information available.

Chemical name	Partition coefficient
Chloroform	2

**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.

Other Information Waste codes should be assigned by the user based on the application for which the product was used.

**Section 14: TRANSPORT INFORMATION**

	<u>RID / ADR</u>	<u>IMDG</u>	<u>ICAO (air) / IATA</u>
14.1 UN/ID no	-	Not regulated	Not regulated
14.2 Proper shipping name	-	-	-
14.3 Hazard Class	-	-	Chloroform
Subsidiary hazard class / Labels	-	-	-
14.4 Packing Group	-	-	-
14.5 14.5 Environmental Hazard	-	-	-
14.6 14.6 Special Provisions	-	-	-

**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
Chloroform	RG 12	



67-66-3

**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
Chloroform	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**

Full text of H-Statements referred to under sections 2 and 3

H302 - Harmful if swallowed  
 H315 - Causes skin irritation  
 H319 - Causes serious eye irritation  
 H331 - Toxic if inhaled  
 H351 - Suspected of causing cancer  
 H361d - Suspected of damaging the unborn child  
 H372 - Causes damage to organs through prolonged or repeated exposure  
 No information available.

Revision note

**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**