1A05636 WA01732

V#U84666

aterial Safety Data Sheet (MSDS)

Class No.	Providence Observation (DO 1100)	Page
US-P-205	Propylene Glycol USP (PG USP)	1/8

#### Chemical Product and Manufacturer

- A. Product Name: Propylene Glycol USP (PG USP).
- B. Recommended Use and Restrictions on Use
  - Recommended Use: Medicines, cosmetics, food additives, essence/flavor.
  - Restrictions on use: Prohibited for uses other than those specified above.
- C. Manufacturer/Supplier/Distributor
  - Supplier: SKC Co.,Ltd
  - Address: 55, Gosa-dong, Nam-gu, Ulsan, Korea
  - Information Service or Emergency Contact Number: +82-52-278-5511~6
  - Department in Charge: Safety Environment Team

# 2. Hazards Risks

- A. Classification of Hazards Risks
  - PG USP is not a dangerous material per the OSHA Hazard Communication Definition.
- B. Warning Sign, Including Caution
  - Pictograph: No pictograph.
  - Signal words: No signal words.
  - Hazard Risk Words: No hazard/signal words.
  - Precaution Words: No precaution words.
- C. Other Hazards and Risks Not Included in the Hazard and Risk Classification (NFPA)
  - Public Health: 0, Reactivity: 0 Fire: 1,

# 3. Name and Contents of Ingredients

Substance Propylene Glycol Dipropylene Glycol, Others Name Nickname 1,2-Propanediol (Usual Name) CAS No. 57-55-6 Contents (%) Over 99.8 Under 0.2

# 4. First Aid Measures

- A. Eye
  - Irrigate eyes with a heavy stream of water for over 15 minutes.
- B. Skin
  - Wash clothing or shoes contaminated with a chemical substance before reuse.
  - Take off clothing or shoes contaminated with a chemical substance, wash out the affected area with soap for over 15 minutes.
  - Immediately wash with soapy water for over 15 minutes to remove chemical

Material Safety Data Sheet (MSDS)

Class No.	Premident Chical USP (PC USP)	Page	
US-P-205	Propylene Glycol USP (PG USP)	2/8	

substances.

#### C. Inhalation

- · If effects of exposure appear move the patient to a non-polluted area.
- If chemical is inhaled, consult with medical personnel immediately.

#### D. Ingestion

- · If chemicals are ingested, consult with medical personnel.
- E. First Aid and Doctor's Caution: No data.

# 5. Fire Fighting and Explosion Measures

#### A. Suitable (Unsuitable) Fire Extinguishing Agents

- Suitable Fire Extinguishing Agents: CO2, powder fire extinguishing agent, carbon dioxide, water, ordinary foam, alcohol resistant foam.
- Unsuitable Fire Extinguishing Agents: No data.
- For Big Fires: Use alcohol resistant foam and a fine water spray.

# B. Specific Hazards from Chemical Substances

- Pyrolysis Products: Carbon dioxide, carbon monoxide.
- · Fire and Explosion risk: Slight risk of fire.

#### C. Protective Devices to Wear for Fire Extinguishing and Preventive Actions

- . Move the case from near the fire if work can be done without risk.
- Spray high-pressure water on the leaked substance to prevent scattering.
- · Construct a bank for further processing.
- Use a fire extinguisher that has been used and found effective for nearby fire.
- · Avoid inhalation of substances or their fumes.
- · Stand facing the wind and avoid low areas.

# 6. Measures for Accidental Spillages

# A. Actions and Protective Devices Required Protecting the Body

- Workers should only stop a chemical spill if it is not dangerous to do so.
- B. Actions for the Protection of the Environment
  - · Air: No data.
  - Soil: No data.
  - · Water: No data.

# C. Purification or Removal Method

- Small Spills
  - For further disposal, move the leaked substance to a suitable case and dispose.
  - Absorb using nonflammable substances.
  - Quarantine the exposed area and restrict access to the area except for the related personnel.
- Big Spills: No data.

Material Safety Data Sheet (MSDS)

Class No.	Providence Charal LISP (PC LISP)	Page
US-P-205	Propylene Glycol USP (PG USP)	3/8

# 7. Handling and Storage

# A. Tips for Safe Handling

- · Store in an enclosed case.
- Ventilate using an overall or local air exhauster.
- Wash the body and clothing after using chemicals.

#### B. Safe Storage

- · Store in an enclosed case.
- · Store in a cool and dry place.
- · Avoid contact with moisture.
- Avoid contact with halogens and intermediate halogens.
- Store and use in accordance with the laws and regulations of the relevant government department and local self-governing bodies.
- · Store in well-ventilated areas.

# 8. Prevention of Exposure and Personal Protective Devices

# A. Exposure Standard of Chemicals, Biological Exposure Criteria

- Domestic Regulations: No data.
- · ACGIH Regulations: No data.
- Biological Exposure Criteria: No data.

# B. Suitable Engineering Management

- Check whether the work process complies with the allowable standards and exposure standards of the Ministry of Labor.
- Install a ventilation device, such as a local exhauster, to ensure a suitable control wind speed.

#### C. Personal Protective Devices

- Protection of Respiratory Organs
  - Make sure to wear protection devices certified by KOSHA.
- Eye Protection
- Install an emergency shower and basins for easy use by workers.
- Wear protective glasses to protect the eyes from scattering substances.
- Eye Protection
  - Wear chemical resistant gloves to avoid the direct contact of water and chemicals.
- Body Protection
- Wear chemical resistant protective wear to protect the skin.

#### Physical/Chemical Characteristics

# A. Appearance

Physical Properties: Liquid.

Color: Achromatic.

- B. Smell: Odorless.
- C. Detection Threshold: No data.

Material Safety Data Sheet (MSDS)

Class No.	Promises Chical USP (PC USP)	Page
US-P-205	Propylene Glycol USP (PG USP)	4/8

- D. Melting Point/Freezing Point: -60 °C.
- E. Initial Boiling Point and Range of Boiling Point: 186 ~ 189 °C.
- F. Steam Pressure: 0.08 mm Hg (at 25 °C).
- G. Solubility: 1,000 g/ml.
- H. Steam Density: 2.6-2.62.
- I. Specific Gravity: 1.0361.
- J. n-Octanol/Water Partition Coefficient: -1.4.
- K. Viscosity: 58.1 cP (20℃).
- L. Molecular Weight: 76.09.

# 10. Stability and Reactivity

- A. Chemical Stability: Stable at room temperature and normal pressure.
- B. Possibility of hazardous reaction: No polymerization.
- C. Conditions to Avoid
  - Avoid heat, flames, sparks and other sources of ignition. Avoid contact with substances that are prohibited for mixing.
- D. Substances to Avoid
  - Acids, bases, combustible substances, halogen carbon chemicals, metals, metallic salts, oxidizers, reducers.
- E. Hazardous Substances Created at the Time of Decomposition
  - Pyrolysis products or burning products: Carbon oxide.

# 11. Information on Toxicity

- A. Information on Route of Highly Likely Exposure
  - · Respiratory Organ: No data.
  - Oral: No data.
  - · Skin Contact: No data.
  - Eye Contact: No data.
- B. Delay by Short-term and Long-term Exposure, Acute Effects and Chronic Effects
  - Acute Toxicity
    - Oral: LD50 2000 mg/kg rat (Classification 4 by the Ministry of Labor).
    - Percutaneous: LD50 > 16000 mg/kg rabbit.
    - Inhalation: No data.
  - Skin Corrosion or Stimulation
  - Rabbit/OECD Guide-line 404: No irritation.
  - Human/Skin (104 mg/2D): Moderate irritation.
  - Male/Skin (10%/2D): Moderate irritation.
  - Children/Skin (30%/96H): Moderate irritation.
  - Severe Eye Damage or Irritation
  - Human/Eye: Weak irritation.
  - Rabbit/Eye(100 mg): Minor irritation.

Material Safety Data Sheet (MSDS)

Class No.	D. J. OL. LUCE (DO UCE)	Page
US-P-205	Propylene Glycol USP (PG USP)	5/8

- · Hypersensitivity of Respiratory Organ: No data.
- Skin Hypersensitivity: Human/Draize Test: No hypersensitivity.
- Carcinogenicity
  - IARC: No data.
  - NTP: No data.
  - OSHA: No data.
  - WISHA: No data.
  - ACGIH: No data.
  - Mutagenesis of reproductive cells
  - In vitro Salmonella typhimurium/TA 98, TA100, TA1535, TA1537 (Reverse Mutation Test; Ames Test): Negative; Human/sister chromatid exchange test: Negative.
  - Reproductive Toxicity
  - If 1230 mg/kg is administered to a pregnant rabbit for 10 days as food, no effect on fertilization rate is observed together with no effect on the survival rate of the embryo or mother.
  - Skeletal system and teratogenesis are the biggest index for toxicity in the embryo and none in the mother. It is observed in mouse ≥500 mg/kg/day and rat ≥1,000 mg/kg/day. Effects on the weight and survival rate of the embryo occur at the higher densities.
  - Target Organ Whole Body Poisonous Substance (One Exposure)
  - Non-toxicity symptom is the restriction of central nerve if anesthetized. No organ to target.
  - · Target Organ Whole Body Poisonous Substance (Repeated Exposure)
  - If exposed to rats for 90 days, weight and feed intake decreases, but no change is seen in the clinical-chemical and blood values. No toxic effects on organs (liver, kidney, pancreas and lung).
  - Inhalation Toxicity: No data.

# 12. Effects on Environment

- A. Aquatic Terrestrial Ecological Toxicity
  - Fish: LC50 710 mg/l 96 hr Oncorhynchus mykiss.
  - Crustacean: EC50 > 1000 mg/l 48 hr Daphnia magna.
  - Birds: EC50 > 1000 mg/t 72 hr Selenastrum capricomutum.
- B. Residual Tendency and Resolvability
  - Residual Tendency: log Kow -1.4.
  - Resolvability: No data.
- C. Biological Condensability
  - Condensability: BCF< 1.</li>
  - Biological Condensability: > 60 (%) 10 days.
- D. Soil Mobility: No data.
- E. Other Hazardous Effects: No data.

Material Safety Data Sheet (MSDS)

Class No.	Providence Chroni USD (DC USD)	Page
US-P-205	Propylene Glycol USP (PG USP)	6/8

# 13. Cautions for Disposal

#### A. Disposal Method

- Discard the contents and case according to the regulations if it is regulated in the Waste Management Act.
- B. Caution for Disposal
  - Consider the caution indicated in the regulations if it is regulated in the Waste Management Act.

# 14. Information on Transportation

- A. UN No.: No information on the classification of the UN Transport of Hazardous Substances.
- B. Suitable Ship Name: N/A.
- C. Class of Risk at Transportation: N/A.
- D. Case Grade: N/A.
- E. Marine Pollutants: No data.
- F. Special Measures That a User Should Know with Regard to Transportation or Means of Transportation
  - Emergency Measures for Fire: N/A.
  - Emergency Measures for Leakage: N/A.

# 15. Legal Regulation Status

- A. Regulations of the Occupational Safety and Health Acts: No data.
- B. Regulations of the Hazardous Chemical Management Act: No data.
- C. Regulations by the Hazardous Substance Safety Management Act: 4 Class 3 Petroleum (Soluble Liquid) 4000%.
- D. Regulations by the Waste Management Act: No data.
- E. Regulations by Other Domestic and Foreign Acts
  - Domestic Regulations
  - Residue-Prone Organic Pollutant Management Act: N/A.
  - International Regulations
  - America Management Information (OSHA Regulations): N/A.
  - America Management Information (CERCLA Regulations): N/A.
  - America Management Information (EPCRA 302 Regulations): N/A.
  - America Management Information (EPCRA 304 Regulations): N/A.
  - America Management Information (EPCRA 313 Regulations): N/A.
  - America Management Information (Rotterdam Convention): N/A.
  - America Management Information (Stockholm Convention): N/A.
  - America Management Information (Montreal Protocol): N/A.
  - ~ EU Classification Information (Fixed Classification): N/A.
  - EU Classification Information (Risk Words): N/A.
  - EU Classification Information (Safety Words): N/A.

**Material Safety Data Sheet (MSDS)** 

Class No.	Promisers Chical USP (PC USP)	Page
US-P-205	Propylene Glycol USP (PG USP)	7/8

#### 16. Other References

#### A. Source of Data

- International Uniform Chemical Information Database (IUCLID) (http://ecb.jrc.it/esis) (Physical Properties)
- International Program on Chemical Safety (IPCS INCHEM) (http://www.inchem.org/) (Color)
- The Chemical Database, The Department of Chemistry at the University of Akron (http://ull.chemistry.uakron.edu/erd) (B. Smell)
- International Uniform Chemical Information Database (IUCLID) (http://ecb.jrc.it/esis) (E. Melting Point/Freezing Point)
- International Uniform Chemical Information Database (IUCLID) (http://ecb.irc.it/esis) (G. Flashing Point)
- National Institute of Technology and Evaluation (NITE) (http://www.safe.nite.go.jp/ghs/h18\_bunrui.html)
   (H. Upper/Lower Limit of Ignition or Exposure Range)
- National Institute of Technology and Evaluation (NITE) (http://www.safe.nite.go.jp/ghs/h18 bunrui.html) (I. Steam Pressure)
- National Institute of Technology and Evaluation (NITE) (http://www.safe.nite.go.jp/ghs/h18\_bunrui.html) (J. Solubility)
- International Uniform Chemical Information Database (IUCLID) (http://ecb.irc.it/esis) (a. n-Octanol/Water Partition Coefficient)
- The Chemical Database, The Department of Chemistry at the University of Akron(http://ull.chemistry.uakron.edu/erd) (c. Decomposition Temperature)
- International Program on Chemical Safety (IPCS INCHEM) (http://www.inchem.org/) (d. Molecular Weight)
- International Uniform Chemical Information Database (IUCLID) (http://ecb.jrc.it/esis) (Oral)
- International Uniform Chemical Information Database (IUCLID) (http://ecb.irc.it/esis) (Injectant)
- International Uniform Chemical Information Database (IUCLID) (http://ecb.jrc.it/esis) (Skin Corrosion or Irritation)
- Corporate Solution From Thomson Micromedex (http://csi.micromedex.com) (Skin Corrosion or Irritation)
- International Uniform Chemical Information Database (IUCLID) (<a href="http://ecb.jrc.it/esis">http://ecb.jrc.it/esis</a>) (Severe Eye Damage or Irritation)
- Corporate Solution From Thomson Micromedex (<u>http://csi.micromedex.com</u>) (Severe Eye Damage or Irritation)
- International Program on Chemical Safety (IPCS INCHEM) (<a href="http://www.inchem.org/">http://www.inchem.org/</a>) (Skin Irritation)
- National Library of Medicine/genetic toxicology (NLM/GENETOX)
   (<a href="http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?GENETOX">http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?GENETOX</a>) (Reproductive Cell Mutagenicity)
- National Library of Medicine/Chemical Carcinogenesis Research Information System (NLM/CCRIS) (http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?CCRIS)

Material Safety Data Sheet (MSDS)

Class No.	Daniel Charles (DO HOD)	Page
US-P-205	Propylene Glycol USP (PG USP)	8/8

(Reproductive Cell Mutagenicity)

- National Library of Medicine/Agency for Toxic Substances and Disease Registry (NLM/ATSDR) (<a href="http://www.atsdr.cdc.gov/MHMI/mmg111.html">http://www.atsdr.cdc.gov/MHMI/mmg111.html</a>)(reproductive toxicity)
- International Uniform Chemical Information Database(IUCLID)
   (http://ecb.jrc.it/esis)
   (Target Organ Whole Body Poisonous Substance (One Exposure))
- International Uniform Chemical Information Database (IUCLID)
   (<u>http://ecb.jrc.it/esis</u>) (Target Organ· Whole Body Poisonous Substance (Repeated Exposure))
- o ECOTOX (Fish)
- o ECOTOX (Crustaceans)
- National Institute of Technology and Evaluation (NITE) (http://www.safe.nite.go.jp/ghs/h18\_bunrui.html) (Birds)
- International Uniform Chemical Information Database (IUCLID) (http://ecb.jrc.it/esis) (Residual Tendency)
- o SIDS (Condensability)
- o SIDS (Bio-degradability)
- B. Date of Initial Creation: Mar. 1, 1996
- C. Number of Revision and Final Date of Revision
  - · Number of Revision: 5 times
  - Final Revision Date: Mar. 17, 2016

#### D. Others

 The above Material Safety Data Sheet (MSDS) was created with some modifications in reference to the MSDS provided by the Korea Occupational Safety & Health Agency (KOSHA).



# SAFETY DATA SHEET

Santa Cruz Biotechnology, Inc. Revision date 12-Aug-2015 Version 1.1

#### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product identifier** 

Product Name **Product Code** 

Sudan IV SC-203762

Recommended use of the chemical and restrictions on use For research use only. Not intended for diagnostic or therapeutic use.

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

Emergency telephone number Chemtrec 1.800.424.9300 (Within USA) +1.703.527.3887 (Outside USA)

#### 2. HAZARDS IDENTIFICATION

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification

Skin corrosion/irritation Serious eye damage/eye irritation Specific target organ toxicity (single exposure)

Label elements Signal word Hazard statements

Symbols/Pictograms

Precautionary Statements - Prevention

Precautionary Statements - Response

Category 2 Category 2A Category 3

Warning Causes skin irritation Causes serious eye irritation
May cause respiratory irritation. May cause drowsiness or



Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face

Avoid breathing dust/furne/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area IF exposed or concerned: Get medical advice/attention IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

If eye irritation persists: Get medical advice/attention
IF ON SKIN: Wash with plenty of soap and water
If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse IF INHALED: Remove victim to fresh air and keep at rest in a position cemfortable for breathing
Call a POISON CENTER or doctor/physician if you feel unwell



Precautionary Statements - Storage

Precautionary Statements - Disposal

Store in a well-ventilated place. Keep container tightly closed

Store locked up

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)
Hazards not otherwise classified (HNOC)

Not applicable

#### Other Information

Health hazards Flammability

Stability

Physical and chemical

properties



HMIS

Health hazards Flammability Physical hazards Personal protection

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS No

Molecular Weight Formula

85-83-6 380.45

C24H20N4O

Chemical Name			Oral LD50	Dermai LD50	Inhalation LC50	
Sudan IV	85-83-8	>98	-	-		

#### 4. FIRST AID MEASURES

First Aid Measures

General advice

Eye contact

Inhalation

Ingestion

Immediate medical attention is required. In case of accident or unwellness, seek medical

advice immediately (show directions for use or sefety data sheet if possible). If symptoms

persist, call a physician.

Skin Contact

persist, call a physician.

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. Call a physician immediately. If symptoms persist, call a physician.

Wash off immediately with plenty of water. Wash contaminated clothing before reuse. If skin irritation persists, call a physician. Immediate medical attention is not required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and

shoes.

Immediate medical attention is required Remove to fresh air If not breathing, give artificial respiration Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation

Artificial respiration and/or oxygen may be necessary Call a physician Move to fresh air in case of accidental inhalation of vapors If symptoms persist, call a physician Do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Drink plenty of water. Clean mouth with water and drink afterwards plenty of water. Call a physician.

Remove all sources of ignition. Use personal protective equipment as required.

Self-protection of the first aider

Most important symptoms and effects, both acute and delayed Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians

Treat symptomatically.

# Santa Cruz Biotechnology, Inc. www.scbt.com

5. FIRE-FIGHTING MEASURES



#### Suitable Extinguishing Media

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment. None.

Unsuitable Extinguishing Media

Specific hazards arising from the chemical

Specific hazards arising from the chemical

Hazardous combustion products

No information available.

Carbon oxides, Nitrogen oxides (NOx),

**Explosion data** 

Sensitivity to Mechanical Impact Sensitivity to Static Discharge

No information available. No information available.

for firefighters

Protective equipment and precautions for firefighters

Protective equipment and precautions Wear self contained breathing apparatus for fire fighting if necessary. In the event of fire

and/or explosion do not breathe fumes.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required. Keep people away from and upwind of spill/leak.

**Environmental precautions** 

Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment

Prevent further leakage or spillage if safe to do so. Cover powder spill with plastic sheet or tarp to minimize spreading. Dike far ahead of liquid spill for later disposal.

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.

## 7. HANDLING AND STORAGE

# Precautions for safe handling

Advice on safe handling

Ensure adequate ventilation, especially in confined areas. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. All equipment used when handling the product must be grounded. Use with local exhaust ventilation. Use personal protective equipment es required. Do not breathe dust/fume/gas/mist/vapors/spray.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep tightly closed in a dry and cool place. Keep in properly labeled containers. Keep containers tightly closed in a cool, well-ventilated place. Store at room temperature. None known based on information supplied.

Incompatible materials

Santa Cruz Biotechnology, Inc. www.scbt.com



#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

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

Appropriate engineering controls Engineering Controls

Ensure adequate ventilation, especially in confined areas

Individual protection measures, such as personal protective equipment

Eye/face protection

Tight sealing safety goggles. Face protection shield.

Skin and Body Protection

Wear protective gloves and protective clothing.

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.

General Hygiene Considerations

When using do not eat, drink or smoke. Regular cleaning of equipment, work area and

clothing is recommended.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Appearance Odor

Solid powder Odorless

Property

Values
No information available

Melting point/freezing point

199 °C 618.8 °C 424.4 °C

Boiling point Flash point Density Evaporation rate Upper flammability limits

1.2 g/cm<sup>3</sup> No information available No information available

Lower flammability limit Vapor pressure Vapor density

No information available No information available

Specific gravity Water solubility Solubility in other solvents Partition coefficient No information available No information available No information available

Autoignition temperature Decomposition temperature

8.72 No information available

199 °C

Kinematic viscosity Explosive properties Oxidizing properties No information available No information available No information available

### 10. STABILITY AND REACTIVITY

Reactivity

Not applicable

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions Hazardous polymertzation

None under normal processing. No information available.

Santa Cruz Biolechnology, Inc. www.scht.com



Conditions to avoid

Incompetible materials

Hazardous Decomposition Products

Heat, flames and sparks, Strong oxidizing agents, Carbon oxides. Nitrogen oxides (NOx).

#### 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Eye contact

No data available.

Skin Contact

No data available. No data available.

Ingestion

No data available.

Information on toxicological effects

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity

Carcinogenicity

Avoid repeated exposure.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	Chemical Name ACGIH Sudan IV		NTP	OSHA	
Sudan IV 85-83-6	•	Group 3		·	

IARC (International Agency for Research on Cancer) Not classifiable as a human carcinogen

Numerical measures of toxicity - Product Information

Unknown acute toxicity

No information available

### 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

May cause long lasting harmful effects to aquatic life

100% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

Persistence and degradability

Bioaccumulation

No information available.

Mobility

No information available. No information available.

13. DISPOSAL CONSIDERATIONS

Disposal of wastes

Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated packaging

Other Information

Do not reuse container.

Waste codes should be assigned by the user based on the application for which the product

was used. D001

US EPA Waste Number

14. TRANSPORT INFORMATION

DOT

Not regulated

Senta Cruz Biotechnology, Inc. www.scbt.com

5/7



IMDG

Not regulated

IATA

Not regulated

#### 15. REGULATORY INFORMATION

International Inventories

All of the components in the product are on the following Inventory lists
TSCA (United States): Canada (DSL/NDSL) Europe (EINECS/ELINCS/NLP) Australia (AICS) South Korea (KECL): China (IECSC) ENCS (Japan): Philippines (PICCS)

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Sudan IV	X	X		X	-	X	X	X	X	Х

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

#### **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### SARA 311/312 Hazard Categories

Acute health hazard Yes Chronic Health Hazard No Fire hazard No Sudden release of pressure hazard Reactive hazard No

#### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

# **US State Regulations**

# California Proposition 65

This product does not contain any Proposition 65 chemicals.

#### U.S. State Right-to-Know Regulations

This product does not contain any substances regulated by state right-to-know regulations

### 16. OTHER INFORMATION

Revision note

No Information available

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.

Santa Cruz Biotechnology, Inc. www.scbt.com

**End of Safety Data Sheet**