Dibenzyltoluene mixture of isomers: sc-235435

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Dibenzyltoluene mixture of isomers
Product Number: sc-235435

Supplier: Santa Cruz Biotechnology, Inc.
2145 Delaware Avenue
Santa Cruz, CA 95060
800.457.3801 or 831.457.3800

Emergency: ChemWatch
Within the US & Canada: 877–715–9305
Outside the US & Canada: +800 2436 2255 (1–800-CHEMCALL) or call +613 9573 3112

2. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : 'Dibenzyltoluene', DBT, Dibenzyltoluene mixture of isomers
Formula : C21H20
Molecular Weight : 272.38 g/mol

CAS-No.	*EC-No.*	*Index-No.*	*Concentration*
Toluene, dibenzyl derivative			
29589–57–9	249–706–2	–	–

3. HAZARDS IDENTIFICATION

Emergency Overview
OSHA Hazards
No known OSHA hazards
HMIS Classification
Health Hazard: 0
Flammability: 1
Physical hazards: 0
NFPA Rating
Health Hazard: 0
Fire: 1
Reactivity Hazard: 0
Potential Health Effects
Inhalation May be harmful if inhaled. May cause respiratory tract irritation.
Skin May be harmful if absorbed through skin. May cause skin irritation.
Eyes May cause eye irritation.
Ingestion May be harmful if swallowed.

4. FIRST AID MEASURES

If inhaled
If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.
In case of skin contact
Wash off with soap and plenty of water. Consult a physician.
In case of eye contact
Flush eyes with water as a precaution.
If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE-FIGHTING MEASURES

Flammable properties

Flash point	200° C (392° F) – open cup
Ignition temperature	470° C (878° F)

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods for cleaning up

Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Handling

Normal measures for preventive fire protection.

Storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection

Respiratory protection is not required. Where protection is desired, use multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

For prolonged or repeated contact use protective gloves.

Eye protection

Safety glasses

Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	liquid	pH	no data available
Density	1.043 g/cm3	Water solubility	insoluble
Flash point	200 °C (392 °F) – open cup	Melting point	no data available
Ignition temperature	470 °C (878 °F)	Lower explosion limit	no data available
Vapour pressure	5 hPa (4 mmHg) at 200 °C (392 °F)	Upper explosion limit	no data available
	1.29 hPa (0.97 mmHg) at 165 °C (329 °F)		
Boiling point	380 °C (716 °F) at 1,013 hPa (760 mmHg)		
Partition coefficient: n-octanol/water	log Pow: 6.5		

10. STABILITY AND REACTIVITY

UN Number: 3082 Class: 9 Packing group: III EMS-No: F-A, S-F

Storage stability

Stable under recommended storage conditions.

Materials to avoid

Strong oxidizing agents

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. – Carbon oxides

Thermal decomposition

> 380 °C (> 716 °F)

11. TOXICOLOGICAL INFORMATION

Acute toxicity

LD50 Oral – rat – > 10,360 mg/kg
LD50 Inhalation – rat – 4 h – > 2,400 mg/m3
LD50 Dermal – rabbit – > 2,000 mg/kg

Irritation and corrosion

Skin – rabbit – Mild skin irritation
Eyes – rabbit – Mild eye irritation

Sensitisation

no data available

Chronic exposure

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Potential Health Effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.
Skin May be harmful if absorbed through skin. May cause skin irritation.
Eyes May cause eye irritation.
Ingestion May be harmful if swallowed.

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

Biodegradability Result: – Not readily biodegradable.

Ecotoxicity effects

Toxicity to daphnia and other aquatic invertebrates.
EC50 – Daphnia magna (Water flea) – 1.6 mg/l – 24 h

Further information on ecology

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

Product

Observe all federal, state, and local environmental regulations.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

Not dangerous goods

IMDG
UN-Number: 3082 Class: 9 Packing group: III EMS-No: F-A, S-F
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Toluene, dibenzyl derivative)
Marine pollutant: No
IATA
UN-Number: 3082 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substance, liquid n.o.s. (Toluene, dibenzyl derivative)

15. REGULATORY INFORMATION

OSHA Hazards
No known OSHA hazards
DSL Status
This product contains the following components that are not on the Canadian DSL nor NDSL lists.

Toluene, dibenzyl derivative	CAS-No. 29589–57–9

SARA 302 Components
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 Components
SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
SARA 311/312 Hazards
No SARA Hazards
Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.
Pennsylvania Right To Know Components

Toluene, dibenzyl derivative	CAS-No. 29589–57–9

New Jersey Right To Know Components

Toluene, dibenzyl derivative	CAS-No. 29589–57–9

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.

04/07/2011