

Revision number: 2 Revision date: 10/06/2014

# 1. IDENTIFICATION

Product name: Product code: 4-tert-Butyldiphenyl Sulfide B3484

For laboratory research purposes.

Not for drug or household use.

**TCI AMERICA** 

SAFETY DATA SHEET

Product use: Restrictions on use:

## Company:

TCI America 9211 N. Harborgate Street Portland, OR 97203 U.S.A. Telephone: +1-800-423-8616 / +1-503-283-1681 Fax: +1-888-520-1075 / +1-503-283-1987 e-mail: sales-US@TCIchemicals.com www.TCIchemicals.com

## 2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200:

Skin Corrosion/Irritation [Category 2] Eye Damage/Irritation [Category 2A]

Signal word:

Warning!

None

Hazard Statement(s):

Causes serious eye irritation Causes skin irritation

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention] [Response]

> [Storage] [Disposal]

Wash hands and face thoroughly after handling. Wear protective gloves. Wear eye and face protection. If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. 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 or attention. None

#### Emergency telephone number: Chemical Emergencies:

TCI America (8:00am - 5:00pm) PST +1-503-286-7624 Transportation Emergencies: Chemtrec 24-Hour +1-800-424-9300 (U.S.A.) +1-703-527-3887 (International) **Responsible department:** TCI America Environmental Health Safety and Security +1- 503-286-7624

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Components: Percent: CAS Number: Molecular Weight: Chemical Formula: Substance 4-tert-Butyldiphenyl Sulfide >98.0%(GC) 85609-03-6 242.38 C<sub>16</sub>H<sub>18</sub>S

Inhalation:	Call a poison center or doctor if you feel unwell. Move victim to fresh air. Give artificial respiration if victim
initiation.	is not breathing. Administer oxygen if breathing is difficult. Keep victim warm and quiet. Treat
	symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and
	take precautions to protect themselves.
Skin contact:	If skin irritation occurs get medical advice/attention. Remove and wash contaminated clothing before re- use. In case of contact with substance, immediately flush skin with running water for at least 20 minutes.
	Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s)
	involved and take precautions to protect themselves.
Eye contact:	IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. Contact with
	material may irritate or burn eyes. Call emergency medical service. Move victim to fresh air. Check for and
	remove any contact lenses. Keep victim warm and quiet. Treat symptomatically and supportively. Effects of exposure to substance may be delayed. Ensure that medical personnel are aware of the material(s)
	involved and take precautions to protect themselves.
Ingestion:	Do not induce vomiting with out medical advice. If swallowed, seek medical advice immediately and show
	the container or label. Do not use mouth-to-mouth method if victim ingested the substance; give artificial
	respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Loosen tight clothing such as a collar, tie, belt or waistband. If a person vomits place them
	in the recovery position so that vomit will not reenter the mouth and throat. Rinse mouth. Keep victim warm
	and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the
	material(s) involved and take precautions to protect themselves.
Symptoms/effects:	
Acute:	Redness.
Delayed:	No data available
mmediate medical attention:	If breathing has stopped, perform artificial respiration. Use first aid treatment according to the nature of the injury. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
5. FIRE-FIGHTING MEASURES	
Suitable extinguishing media:	Dry chemical, CO <sub>2</sub> , sand, earth, water spray or regular foam Consult with local fire authorities before attempting large scale fire fighting operations.
specific hazards arising from the che	
lazardous combustion products:	These products include: Carbon oxides Silicates
Other specific hazards:	Closed containers may explode from heat of a fire.
Special precautions for fire-fighters:	
	ght streams. Dike fire-control water for later disposal; do not scatter the material. Containers may explode when
eated. Move containers from fire area	if you can do it without risk.
Special protective equipment for fire	
	preathing apparatus (SCBA). Structural fire fighters' protective clothing provides limited protection in fire situations uations. Wear chemical protective clothing which is specifically recommended by the manufacturer. It may
provide little or no thermal protection.	
6. ACCIDENTAL RELEASE MEAS	SURES
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Personal precautions:	Avoid contact with skin, eyes, and clothing. Keep people away from and upwind of spill/leak. Do not touch
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Personal precautions:	Avoid contact with skin, eyes, and clothing. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing (Section 8). Warn
	unnecessary personnel to move away. Stop leak if you can do it without risk. Ensure adequate ventilation.
	Isolate the hazard area and deny entry to unnecessary and unprotected personnel.
Personal protective equipment:	Wear eye protection (splash goggles) and face protection (full length face shield). Lab coat. Vapor
	respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Wear protective gloves (nitrile).
Emergency procedures:	In case of a spill and/or a leak, always shut off any sources of ignition, ventilate the area, and excercise caution. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Warn personnel to move away. Prevent entry into sewers, basements or confined areas; dike if needed.

### Methods and materials for containment and cleaning up:

ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if without risk. Ventilate the area. Absorb with an inert material and put the spilled material in an appropriate waste disposal container. Use clean non-sparking tools to collect absorbed material. Environmental precautions: Prevent further leakage or spillage if safe to do so. Water runoff can cause environmental damage. Prevent entry into sewers, basements or confined

areas; dike if needed.

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7. HANDLING AND STORAGE	
Precautions for safe handling:	Do NOT breath gas, fumes, vapor, or spray. Avoid contact with skin and eyes. Good general ventilation should be sufficient to control airborne levels. Keep container dry. Handle and open container with care. Wear suitable protective clothing, gloves and eye/face protection. When using do not eat, drink, or smoke Keep away from sources of ignition.
Conditions for safe storage:	Keep only in the original container in a cool well-ventilated place. Keep away from incompatibles. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Avoid prolonged storage periods.
Storage incompatibilities:	Store away from oxidizing agents

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits: No data available

## Appropriate engineering controls:

Good general ventilation should be sufficient to control airborne levels. Ventilation is normally required when handling or using this product. Eyewash fountains should be provided in areas where there is any possibility that workers could be exposed to the substance. Follow safe industrial engineering/laboratory practices when handling any chemical.

Personal protective equipment	
Respiratory protection:	Vapor respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent.
Hand protection:	Nitrile gloves.
Eye protection:	Wear eye protection (splash goggles) and face protection (full length face shield).
Skin and body protection:	Lab coat.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Form: Color: Odor: Odor threshold:	Liquid Clear Slightly pale yellow - Yellow No data available No data available		
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic Viscosity:	No data available 140°C (284°F)/0.2kPa No data available 1.04 No data available	pH: Vapor pressure: Vapor density: Dynamic Viscosity:	No data available No data available No data available No data available
Partition coefficient: n-octanol/water (log P <sub>ow</sub> )	No data available	Evaporation rate: (Butyl Acetate = 1)	No data available
Flash point: Flammability (solid, gas):	No data available No data available	Autoignition temperature: Flammability or explosive limits: Lower: No data avai Upper: No data avai	

Solubility(ies):

# 10. STABILITY AND REACTIVITY

Reactivity: Chemical Stability: Possibility of Hazardous Reactions: Conditions to avoid: Incompatible materials: Hazardous Decomposition Products: Not Available. Stable under recommended storage conditions. (See Section 7) No hazardous reactivity has been reported. Avoid excessive heat and light. Oxidizing agents No data available

11. TOXICOLOGICAL INFORMATION

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Acute Toxicity: No data available		
Skin corrosion/irritation: No data available		
Serious eye damage/irritation: No data available		
Respiratory or skin sensitization: No data available		
Germ cell mutagenicity: No data available		
Carcinogenicity:		
No data available		
IARC: No data available	NTP: No data available	OSHA: No data available
Reproductive toxicity: No data available		
Routes of Exposure:	Inhalation, Eye contact, Ingestion, Skin contact.	
Symptoms related to exposure: Skin contact may result in inflammation; cha or dry skin. Eye contact may result in redne Potential Health Effects:	aracterized by itching, scaling, reddening, or occasionally bliste ess or pain.	ring. Skin contact may result in redness, pain
Skin and eye contact may result in irritation Target organ(s):	No data available	
12. ECOLOGICAL INFORMATION		
Ecotoxicity		
Fish:	No data available No data available	
Crustacea: Algae:	No data available	
5		
Persistence and degradability:	No data available	
Bioaccumulative potential (BCF):	No data available	
Mobillity in soil:	No data available	
Partition coefficient:	No data available	
n-octanol/water (log Pow)	Nie dete zu Mahle	
Soil adsorption (Koc):	No data available No data available	
Henry's Law: constant (PaM³/mol)	NO data avaliable	
CONSTANT (FAMI-/INOI)		
13. DISPOSAL CONSIDERATIONS		
Disposal of product:	Recycle to process if possible. It is the generator's responsil	nility to comply with Federal. State and Local
	rules and regulations. You may be able to dissolve or mix m chemical incinerator equipped with an afterburner and scrub assistance but does not replace these laws, nor does compl regulatory compliance according to the law. US EPA guideli Waste are listed in 40 CFR Parts 261. The product should n water ways, or the soil.	aterial with a combustible solvent and burn in a ber system. This section is intended to provide ance in accordance with this section ensure hes for Identification and Listing of Hazardous
Disposal of container:	Dispose of as unused product. Do not re-use empty contain	
Other considerations:	Observe all federal, state and local regulations when dispos	ng of the substance.
14. TRANSPORT INFORMATION		
DOT (US)	Non-hazardous for transportation.	
IATA	Non-hazardous for transportation.	
IMDG	Non-hazardous for transportation.	

## 15. REGULATORY INFORMATION

#### Toxic Substance Control Act (TSCA 8b.):

This product is NOT on the EPA Toxic Substances Control Act (TSCA) inventory. The following notices are required by 40 CFR 720.36 (C) for those products not on the inventory list:

(i) These products are supplied solely for use in research and development by or under the supervision of a technically qualified individual as defined in 40 CFR 720.0 et sec.

(ii) The health risks of these products have not been fully determined. Any information that is or becomes available will be supplied on a SDS sheet.

#### **US Federal Regulations**

**CERCLA Hazardous substance and Reportable Quantity:** 

SARA 313:	Not Listed
SARA 302:	Not Listed

### **State Regulations**

State Right-to-Know

Massachusetts	Not Listed
New Jersey	Not Listed
Pennsylvania	Not Listed
California Proposition 65:	Not Listed

#### **Other Information**

#### **NFPA Rating:**

Flammability: 0	Health: Flammability: Physical:
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## International Inventories WHMIS hazard class:

D2B: Materials causing other toxic effects. (Toxic)

### 16. OTHER INFORMATION

#### Revision date: 10/06/2014

Revision number: 2

TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective gogles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.

**HMIS Classification:** 

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