

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

## 1. IDENTIFICATION

Product name: Product code: 4-(trans-4-Propylcyclohexyl)benzonitrile P1617

For laboratory research purposes.

Not for drug or household use.

**TCI AMERICA** 

SAFETY DATA SHEET

Emergency telephone number:

Transportation Emergencies:

+1-703-527-3887 (International) Responsible department:

Environmental Health Safety and Security

TCI America (8:00am - 5:00pm) PST

Chemical Emergencies:

+1-503-286-7624

Chemtrec 24-Hour +1-800-424-9300 (U.S.A.)

+1-503-286-7624

**TCI** America

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: Acute Toxicity - Oral [Category 3] Acute Toxicity - Dermal [Category 3] Acute Toxicity - Inhalation [Category 3] Skin Corrosion/Irritation [Category 2]

Signal word:

Hazard Statement(s):

Causes serious eye irritation Causes skin irritation Toxic if swallowed Toxic in contact with skin Toxic if inhaled

Danger!

Eye Damage/Irritation [Category 2A]

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention]

[Response]

[Storage] [Disposal] Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. Wear protective gloves and protective clothing. Do not breathe dusts or mists. Use only outdoors or in a well-ventilated area. Wear protective gloves. Wear eye and face protection.

If swallowed: Immediately call a poison center or doctor. Rinse mouth. If on skin: Wash with plenty of water. Call a poison center or doctor if you feel unwell. Take off immediately all contaminated clothing and wash it before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor. 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.

Store locked up. Store in a well-ventilated place. Keep container tightly closed. Dispose of contents and container in accordance with US EPA guidelines for the classification and determination of hazardous waste listed in 40 CFR 261.3. (See Section 13)

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Substance			
Components: Percent:	ents: 4-(trans-4-Propylcyclohexyl)benzonitrile >98.0%(GC)		
CAS Number:	61203-99-4		
Nolecular Weight: 227.35			
Chemical Formula:			
Synonyms:	1-Cyano-4-(trans-4-propylcyclohexyl)benzene		
4. FIRST-AID MEASURES			
Inhalation:	Immediately call a poison center or doctor. Move victim to fresh air. Give artificial respiration if victim 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:	Immediately call a poison center or doctor. 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 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 o exposure to substance may be delayed. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.		
Ingestion:	Toxic if swallowed. Do not induce vomiting with out medical advice. Call a physician or Poison Control Center immediately. 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: Delayed:	Redness. No data available		
Immediate medical attention:	WARNING: It might be dangerous to the person providing aid to give mouth-to-mouth respiration, becau the inhaled material is toxic. If breathing has stopped, perform artificial respiration. Use first aid treatme according to the nature of the injury. Ensure that medical personnel are aware of the material(s) involve and take precautions to protect themselves.		
5. FIRE-FIGHTING MEASURES			
Suitable extinguishing media:	Dry chemical, $CO_2$ or water spray. Consult with local fire authorities before attempting large scale fire fighting operations.		
Specific hazards arising from the ch			
Hazardous combustion products: Other specific hazards:	These products include: Carbon oxides Nitrogen oxides Closed containers may explode from heat of a fire.		
Special precautions for fire-fighters: Use water spray or fog; do not use stra heated. Move containers from fire area Special protective equipment for fire	aight streams. Dike fire-control water for later disposal; do not scatter the material. Containers may explode when a if you can do it without risk.		
Wear positive pressure self-contained	breathing apparatus (SCBA). Structural fire fighters' protective clothing provides limited protection in fire situations tractions. Wear chemical protective clothing which is specifically recommended by the manufacturer. It may		
6. ACCIDENTAL RELEASE MEA	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 touc damaged containers or spilled material unless wearing appropriate protective clothing (Section 8). Warn		

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.

6. ACCIDENTAL RELEASE MEASURES			
Personal protective equipment:	Wear eye protection (splash goggles) and face protection (full length face shield). Lab coat. Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Wear protective gloves (nitrile).		
Emergency procedures:	Prevent dust cloud. 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:** 

Keep away from living quarters. 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.

7. HANDLING AND STORAGE	
Precautions for safe handling:	Avoid inhalation of vapor or mist. Do not ingest. Avoid contact with skin and eyes. Avoid contact with skin. 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:	Store locked up. Keep containers tightly closed 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:	Combustible substances, 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:Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent.Hand protection:Nitrile gloves.Eye protection:Safety glasses.Skin and body protection:Lab coat.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Form: Color: Odor: Odor threshold:	Solid Crystal - Powder White - Very pale yellow No data available No data available			
Melting point/freezing point:	45°C (113°F)	pH:		No data available
Boiling point/range:	No data available	Vapor pressure:		No data available
Decomposition temperature:	No data available	Vapor density:		No data available
Relative density:	No data available	Dynamic Viscosity:		No data available
Kinematic Viscosity:	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:	No data available	Autoignition temperat	ure:	No data available
Flammability (solid, gas):	No data available	Flammability or explose	sive limits:	
		Lower:	No data availa	ble
		Upper: N	No data availa	ble

Solubility(ies): Soluble: Methanol

# **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

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: Overexposure may result in serious illness or death. Skin contact may result in inflammation; characterized by itching, scaling, reddening, or occasionally blistering. Skin contact may result in redness, pain or dry skin. Eye contact may result in redness or pain. Potential Health Effects: Skin and eye contact may result in irritation. Target organ(s): No data available 12. ECOLOGICAL INFORMATION Ecotoxicity Fish No data available

FISN:	no dala avallable
Crustacea:	No data available
Algae:	No data available
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)	
Soil adsorption (Koc):	No data available
Henry's Law:	No data available
constant (PaM <sup>3</sup> /mol)	

Non-hazardous for transportation.

13. DISPOSAL CONSIDERATI	IONS	
Disposal of product:	Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not be allowed to enter the environment, drains, water ways, or the soil.	
Disposal of container:	Dispose of as unused product. Do not re-use empty containers.	
Other considerations:	Observe all federal, state and local regulations when disposing of the substance.	
14. TRANSPORT INFORMATIO	ON	
DOT (US)	Non-hazardous for transportation.	
ΙΑΤΑ	Non-hazardous for transportation.	

### 15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.): This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

US	Federal	Regulations	

CERCLA Hazardous substance and Reportable Quantity:		
SARA 313:	Not Listed	
SARA 302:	Not Listed	

#### **State Regulations**

IMDG

#### State Right-to-Know

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

#### **Other Information**

NFPA Rating:		HMIS Classification:	
Health:	2	Health:	2
Flammability:	0	Flammability:	0
Instability:	0	Physical:	0
International Inve	ntories		

#### International Inventories

WHMIS hazard class:	D1B: Materials causing immediate and serious toxic effects. (Toxic)
	D2B: Materials causing other toxic effects. (Toxic)
Canada: NDSL	On NDSL
EC-No:	262-654-5

### 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.