

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

1. **IDENTIFICATION**

4-(N,N-Diphenylamino)benzaldehyde D2172

TCI AMERICA

SAFETY DATA SHEET

Product use: Restrictions on use:

Product name:

Product code:

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:	Not classifiable
Signal word:	None
Hazard Statement(s):	None
Pictogram(s) or Symbol(s):	None
Precautionary Statement(s):	None

Supplementary Information:

While this material is not classified as hazardous under OSHA, this SDS contains valuable information critical to safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Components:	Substance 4-(N.N-Diphenylamino)benzaldehyde
Percent:	>98.0%(GC)(N)
CAS Number:	4181-05-9
Molecular Weight:	273.34
Chemical Formula:	C ₁₉ H ₁₅ NO
Synonyms:	p-Formyltriphenylamine

4. FIRST-AID MEASURES

Inhalation:	Move victim to fresh air. Call emergency medical service. 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:	Remove and isolate contaminated clothing and shoes. 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.

For laboratory research purposes.

Not for drug or household use.

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

4. FIRST-AID MEASURES		
Eye contact: Ingestion:	Move victim to fresh air. Check for and remove any contact lenses. In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. 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. 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. Loosen tight clothing such as a collar, tie, belt or waistband. If swallowed, seek medical advice immediately and show the container or label. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Effects of exposure (ingestion) to substance may be delayed.	
Symptoms/effects:		
Acute: Delayed:	No data available No data available	
Immediate 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 ₂ , water spray, or alcohol-resistant foam. Consult with local fire authorities before attempting large scale fire fighting operations.	
Specific hazards arising from the cher Hazardous combustion products: Other specific hazards:	mical These products include: Carbon oxides Nitrogen oxides Closed containers may explode from heat of a fire.	
Special precautions for fire-fighters: Not available Special protective equipment for fire-f Structural fire fighters' protective clothing 6. ACCIDENTAL RELEASE MEAS	provides limited protection in fire situations ONLY; it may not be effective in spill situations.	
Personal precautions: Personal protective equipment: Emergency procedures:	Do not touch damaged containers or spilled material unless wearing appropriate protective clothing (Section 8). Wear protective clothing, gloves and eye protection. In case of a spill and/or a leak, always shut off any sources of ignition, ventilate the area, and excercise caution.	
Methods and materials for containmer Dike far ahead of liquid spill for later disp Environmental precautions: Prevent entry into sewers, basements or	iosal.	
7. HANDLING AND STORAGE		
Precautions for safe handling:	Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection. Follow safe industrial hygiene practices and always wear proper protective equipment when handling this compound.	
Conditions for safe storage: Storage incompatibilities:	Keep container tightly closed in a dry and well-ventilated place. Store away from oxidizing agents	
8. EXPOSURE CONTROLS / PERS	SONAL PROTECTION	
Exposure limits:	No data available	
Good general ventilation should be suffic	sient to control airborne levels. Eyewash fountains should be provided in areas where there is any possibility that nce. Follow safe industrial engineering/laboratory practices when handling any chemical.	
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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Form: Color: Odor: Odor threshold:	Solid Crystal - Powder Slightly pale yellow - Yellov No data available No data available	v green		
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic Viscosity:	132°C (270°F) No data available No data available No data available No data available 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 _{ow})	No data available	Evaporation rate: (Butyl Acetate = 1)		No data available
Flash point: Flammability (solid, gas):	No data available No data available	Autoignition tempe Flammability or ex Lower:		No data available able
		Upper:	No data avail	able
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

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

Reproductive toxicity:

No data available

Routes of Exposure: Symptoms related to exposure: Inhalation, Eye contact, Ingestion.

No specific information is available in our data base regarding the toxic effects of this material for humans. However, exposure to any chemical should be kept to a minimum. Always follow safe industrial hygiene practices and wear proper protective equipment when handling this compound. **Potential Health Effects:**

No data available

OSHA:

No data available

No specific information available; skin and eye contact may result in irritation. May be harmful if inhaled or ingested.

NTP:

Target organ(s):

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No data available

12. ECOLOGICAL INFORMATION Ecotoxicity Fish: No data available No data available Crustacea: No data available Algae: Persistence and degradability: No data available Bioaccumulative potential (BCF): No data available No data available Mobillity in soil: Partition coefficient: No data available n-octanol/water (log Pow) Soil adsorption (Koc): No data available No data available Henry's Law: constant (PaM3/mol) 13. DISPOSAL CONSIDERATIONS 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. **Disposal of container:** Dispose of as unused product. Other considerations: Observe all federal, state and local regulations when disposing of the substance. 14. TRANSPORT INFORMATION DOT (US) Non-hazardous for transportation. Non-hazardous for transportation. ΙΑΤΑ IMDG 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 Hazardo SARA 313: SARA 302:		ntable Quantity: Not Listed Not Listed	
State Regulations	_		
State Right-to-Kno	ow.		
Massachus New Jerse Pennsylva California Propos	y nia ition 65:	Not Listed Not Listed Not Listed Not Listed	
Other Information			
NFPA Rating:			H
Health: Flammability: Instability:	2 0 0		
International Inve	ntories		
WHMIS bezord old		No data available	

HMIS Classification:

Health:	2
Flammability:	0
Physical:	0

WHMIS hazard class:

No data available.

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On NDSL

15. REGULATORY INFORMATION Canada: NDSL

16. OTHER INFORMATION

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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.