Safety Data Sheet

N-(1,4-dimethylpentyl)-N'-phenylbenzene-

1,4-diamine

Version: V2.0.0.1

Report No.: BWJ5387-2016-MSDS-US

Creation Date: 2025/10/13

Revision Date: -

*Prepared according to American OSHA HCS-2024 (29 CFR 1910.1200)



1 Identification

| Product identifier

·	
Product Name	N-(1,4-dimethylpentyl)-N'-phenylbenzene-1,4-diamine
Cat No.	BWJ5387-2016
CAS No.	3081-01-4
EC No.	221-374-3
Molecular Formula	C19H26N2

Recommended use of the product and restrictions on use

Relevant identified uses	Please consult manufacturer.
Uses advised against	Please consult manufacturer.

Details of the supplier of the Safety Data Sheet

Name of the company	Weiyel Inc
Address of the company	Hedian Light Industrial Park, Chengguan Town, Shangcheng County, Xinyang City, Henan Province, China
Post code	465350
Telephone number	010-58103678
Fax number	010-84840368
E-mail address	info@weiyel.com

| Emergency phone number

Emergency p	hone number	010-58103678
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2 Hazard(s) identification

Hazard classification according to 29 CFR 1910.1200

Sensitization - skin	Category 1
Reproductive Toxicity	Category 1B

Label elements

1	
Hazard pictograms	
Signal word	Danger

Hazard statements				
H317	May cause an allergic s	May cause an allergic skin reaction		
H360	May damage fertility or	May damage fertility or the unborn child		
Precautionary statements				
Prevention				
P201	Obtain special instruction	ons before use.		
P202	-	safety precautions have been	read and understood.	
P261	Avoid breathing dust/fu	me.		
P272	Contaminated work close	thing should not be allowed or	ut of the workplace.	
P280	Wear protective gloves/protection.	protective clothing/eye protection	tion/face protection/hearing	
◆ Response				
P321	Specific treatment (see	related instructions on the lab	pel).	
P302+P352	IF ON SKIN: Wash with	plenty of water.		
P362+P364	Take off contaminated	clothing and wash it before rec	ise.	
◆ Storage	•			
P405	Store locked up.			
◆ Disposal				
P501	Dispose of contents/colinternational regulations	ntainer in accordance with loc	al/regional/national/	
Other hazards				
Other nazaras	Not applicable.			
	Trot applicable			
Hazard description				
 Physical and chemical ha 	zards			
	No information available)		
Health hazards				
Inhaled	· ·	Inhalation of the product may produce adverse health effects or irritation of the respiratory tract following discomfort.		
Ingestion	Accidental ingestion of the product may be harmful to the health of the individual.			
Skin Contact	The product may cause an allergic skin reaction following direct contact with the skin.			
Eye	This product may cause temporary discomfort following direct contact with the eye.			
 Environmental hazards 				
	Please refer to 12th cha	apter of SDS.		
3 Composition/informa	ation on ingredients	8		
Substance/mixture				
	Substance			
	Substance			
	Substance			

N-(1,4-dimethylpentyl)-N'-	3081-01-4	221-374-3	97.8
phenylbenzene-1,4-diamin			
е			

4 First-aid measures

Description of first aid measures

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General advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Skin contact	Take off contaminated clothing and shoes immediately. Wash off with plenty of soap and water for at least 15 minutes and consult a physician if feel uncomfortable.
Ingestion	Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
Inhalation	Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.
Protecting of first-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

Most important symptoms/effects, acute and delayed

Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

Indication of any immediate medical attention and special treatment needed

- 1 Treat symptomatically.
- 2 Symptoms may be delayed.

5 Fire-fighting measures

Extinguishing media

Suitable extinguishing media	Use extinguishing media suitable for surrounding area.
Unsuitable extinguishing media	There is no restriction on the type of extinguisher which may be used.

Specific hazards arising from the substance or mixture

- 1 Development of hazardous combustion gases or vapor possible in the event of fire.
- 2 May expansion or decompose explosively when heated or involved in fire.

Special protective equipment and precautions for fire-fighters

- As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
- 2 Fight fire from a safe distance, with adequate cover.
- 3 Prevent fire extinguishing water from contaminating surface water or the ground water system.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

- 1 Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.
- 2 Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

3 Use personal protective equipment, do not breathe dust/fume.

Environmental precautions

- 1 Prevent further leakage or spillage if safe to do so.
- 2 Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

- 1 Cut off the source of the leak as much as possible.
- 2 Keep leaks in a ventilated place.
- 3 Isolation of contaminated areas and restrictions on access.
- 4 It is recommended that emergency personnel wear dust masks.
- Collect the spill with a clean shovel and place it in a clean, dry, loosely closed container and move the container away from the leak.
 - Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

7 Handling and storage

Precautions for safe handling

- 1 Handling is performed in a well ventilated place.
- 2 Wear suitable protective equipment.
- 3 Avoid contact with skin and eyes.
- 4 Keep away from heat/sparks/open flames/ hot surfaces.

Conditions for safe storage, including any incompatibilities

- 1 Keep containers tightly closed.
- 2 Keep containers in a dry, cool and well-ventilated place.
- 3 Keep away from heat/sparks/open flames/hot surfaces.
- 4 Store away from incompatible materials and foodstuff containers.

8 Exposure controls/personal protection

Control parameters

Occupational Exposure limit No relevant regulations values

| Engineering controls

- 1 Ensure adequate ventilation, especially in confined areas.
- 2 Ensure that eyewash stations and safety showers are close to the workstation location.
- 3 Use explosion-proof electrical/ventilating/lighting/equipment.
- 4 Set up emergency exit and necessary risk-elimination area.

Personal protection equipment

General requirement











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Eye protection

Must wear appropriate safety goggles.

Hand protection	Must wear appropriate chemical protective gloves.
Respiratory protection	Must wear appropriate personal respiratory protective equipment.
Skin and body protection	Must wear appropriate chemical protective clothing and chemical resistant shoes.

9 Physical and chemical properties and safety characteristics

| Physical and chemical properties

r riysical and chemical properties		
Dark grey or light brown, solid		
No information available		
No information available		
No information available		
32.4		
230 (4.66 hPa)		
197		
Not applicable		
No information available		
Upper limit : No information available ; Lower limit : No information available		
0.000281Pa (25°C)		
>1		
1.01 (20 °C)		
0.67mg/L (25 °C)		
5.17 (20 °C)		
No information available		
No information available		
Not applicable		

10 Stability and reactivity

| Stability and reactivity

Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.
Chemical stability	Stable under proper operation and storage conditions.
Possibility of hazardous	No information available.
reactions	
Conditions to avoid	Incompatible materials, heat, flame and spark.
Incompatible materials	No information available.
Hazardous decomposition	Under normal conditions of storage and use, hazardous decomposition products
products	should not be produced.

11 Toxicological information

| Acute toxicity

Component	LD ₅₀ (oral)	LD ₅₀ (dermal)	LC ₅₀ (inhalation,4h)

N-(1,4-dimethylpentyl)-N'-	2100mg/kg(Rat)	No information available	No information available
phenylbenzene-1,4-diami			
ne			

| Carcinogenicity

Component	List of carcinogens by	Report on Carcinogens	OSHA Carcinogen List
	the IARC Monographs	by NTP	
N-(1,4-dimethylpentyl)-N'-	Not Listed	Not Listed	Not Listed
phenylbenzene-1,4-diamin			
е			

Others

N-(1,4-dimethylpentyl)-N'-phenylbenzene-1,4-diamine(Component)					
Skin corrosion/irritation	Based on available data, the classification criteria are not met				
Serious eye damage/irritation	Based on available data, the classification criteria are not met				
Skin sensitization	May cause an allergic skin reaction(Category 1)				
Respiratory sensitization	Based on available data, the classification criteria are not met				
Reproductive toxicity	May damage fertility or the unborn child(Category 1B)				
STOT-repeated exposure	Based on available data, the classification criteria are not met				
Aspiration hazard	Based on available data, the classification criteria are not met				
Germ cell mutagenicity	Based on available data, the classification criteria are not met				

12 Ecological information

Acute aquatic toxicity

Acute aquatic toxicity | No information available

| Chronic aquatic toxicity

Chronic aquatic toxicity No information available

| Persistence and degradability

Component	Persistence (water/soil)	Persistence (air)
N-(1,4-dimethylpentyl)-N'- phenylbenzene-1,4-diamin	High	High
е		

| Bioaccumulative potential

Component	Bioaccumulative potential	Comments
N-(1,4-dimethylpentyl)-N'- phenylbenzene-1,4-diamin	High	Log Kow=5.7212
e		

Mobility in soil

Component	log Koc	Remark
N-(1,4-dimethylpentyl)-N'-	4.060	
phenylbenzene-1,4-diamin		
e		

13 Disposal considerations

Disposal considerations

Waste chemicals	Before disposal should refer to the relevant national and local laws and
	regulation. Recommend the use of incineration disposal.
Contaminated packaging	Containers may still present chemical hazard when empty. Keep away from hot
	and ignition source of fire. Return to supplier for recycling if possible.
Disposal recommendations	Refer to section waste chemicals and contaminated packaging.

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14 Transport information

Label and Mark

Transporting Label | Not applicable

IMDG-CODE

IMDG-CODE NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

IATA-DGR

IATA-DGR NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

UN-ADR

UN-ADR NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to IMO instruments

◆ Transport in bulk according to Annex II of MARPOL and the IBC code

Not Available

◆ Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Not Available

Transport in bulk in accordance with the IGC Code

Not Available

Others

Precautions for transport

Transport vehicles should be equipped with the appropriate variety and quantity of fire equipment and emergency equipment leakage during transport. Before transport, should be preceded by checking whether container integrity, sealing. The transport unit must be placarded and marked in accordance with relevant transporting requirements.

15 Regulatory information

International chemical inventory

Component	Α	В	С	D	Е	F	G	Н	I	J	K	L	М
N-(1,4-dimethylpentyl)-N'- phenylbenzene-1,4-diamin	V	1	1	1	1	1	1	1	1	×	×	1	V
e													

- [A] China Inventory of Existing Chemical Substances(IECSC)
- [B] European Inventory of Existing Commercial Chemical Substances(EC inventory)
- [C] United States Toxic Substances Control Act Inventory(TSCA)
- [D] Canadian Domestic Substances List(DSL)
- [E] New Zealand Inventory of Chemicals(NZIoC)
- [F] Philippines Inventory of Chemicals and Chemical Substances(PICCS)

- [G] Korea Existing Chemicals Inventory(KECL)
- [H] Australian. Inventory of Industrial Chemical (AIICS)
- [1] Japan Inventory of Existing & New Chemical Substances(ENCS)
- [J] Thailand Existing Chemicals Inventory(TECI)
- [K] Mexico National Inventory of Chemical Substances (INSQ)
- [L] Russia Inventory of Existing Substances (DRAFT)
- [M] Inventory of Existing Chemical Substances in Taiwan, China (TCSI)

List of Chemical Substances under International Conventions

Component	Α	В	С
N-(1,4-dimethylpentyl)-N'- phenylbenzene-1,4-diami	×	×	×
ne			

- [A] The Montreal Protocol on Substances that Deplete the Ozone Layer
- [B] Stockholm Convention on Persistent Organic Pollutants (POPs)
- [C] Rotterdam Convention on the prior informed consent procedure for certain hazardous chemicals and pesticides in international trade

US chemical inventory

Component	Α	В	С	D	E	F	G	Н
N-(1,4-dimethylpentyl)-N' -phenylbenzene-1,4-dia mine	×	×	×	×	×	×	×	×

- [A] US Clean Air Act (CAA)- Section 112, Hazardous Air Pollutants
- [B] US SARA 302- Extremely Hazardous Substance List
- [C] US CERCLA- Hazardous Substances List
- [D] US Massachusetts Right-to-Know Substance List
- [E] US New Jersey Right to Know Hazardous Substance List
- [F] US Pennsylvania Right to Know Hazardous Substance List
- [G] US New York City Right-to-Know Hazardous Substance List
- [H] US California Proposition 65 List

Note:

- " $\sqrt{}$ " Indicates that the substance included in the regulations.
- "x" No data or not included in the regulations.

16 Other information

Information on revision

Creation Date	2025/10/13
Revision Date	-
Reason for revision	

Reference

- $[1] \qquad \text{IPCS: The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home.} \\$
- [2] IARC, website: http://www.iarc.fr/.
- [3] OECD: The Global Portal to Information on Chemical Substances, website: https://www.echemportal.org/echemportal/.
- [4] CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple.
- [5] NLM: ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp.
- [6] EPA: Integrated Risk Information System, website: http://cfpub.epa.gov/iris/.
- [7] U.S. Department of Transportation: ERG, website: http://www.phmsa.dot.gov/hazmat/library/erg.
- [8] Germany GESTIS-database on hazard substance, website: http://gestis-en.itrust.de/.

Abbreviations and acronyms

CAS Chemical Abstracts Service

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Disclaimer

This Safety Data Sheet (SDS) was prepared according to OSHA HCS-2024. The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.