

Sunsine 6PPD

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION	
Manufacturer Shandong Sunsine Chemical Co., Ltd. The South-east of Shandong Province, China. P. C	Emergency Contact Chemtrec: 1-800-424-9300 (USA) (1)330-542-8400 (outside USA)
Trade Name(s): Sunsine 6PPD Pastille, Granule	Chemical Name: N-(1,3-dimethylbutyl) -N'-phenyl-p-phenylenediamine
Relevant identified uses of the substance or mixture and uses advised against: No further relevant information available.	Application of the substance/the preparation: Rubber antioxidant
Issued By: Sovereign Chemical Company (Distributor) 4040 Embassy Parkway, Suite 190 Akron, Ohio 44333	Date of Issue: February 1, 2025

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Information in accordance with US 29 CFR 1910.1200 (Hazcom 2012), Regulation (EC) No 1272/2008, 1907/2006/EC (REACH), and GHS.

Hazard Pictograms (CLP)

:  GHS07,  GHS08,  GHS09

Signal Word

: Danger

Hazard statements (CLP)

: H302 – Harmful if swallowed, Category 4
 H317 – May cause an allergic skin reaction, Category 1
 H360 – May damage fertility or the unborn child, Category 1
 H400 - Very toxic to aquatic life, Category 1
 H410 -Very toxic to aquatic life with long lasting effects, Category 1

Precautionary statements (CLP)

: P264 – Wash hands thoroughly after handling
 P270 - Do not eat, drink or smoke when using this product
 P301 + P312 - IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell
 P330 – Rinse mouth
 P261 – Avoid breathing dust/fume/gas/mist/vapors/spray
 P272 - Contaminated work clothing should not be allowed out of the workplace
 P280 - Wear protective clothing, eye protection, face protection, protective gloves
 P302+P352 - IF ON SKIN: Wash with plenty of soap and water
 P321 – Specific treatment (see supplemental first aid instructions on this label)
 P333+ P313 - If skin irritation or rash occurs: Get medical advice/attention
 P363 - Wash contaminated clothing before reuse

P501 - Dispose of contents/ container to an approved waste disposal plant
P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P281 - Use personal protective equipment as required
P308 + P313 - IF exposed or concerned: Get medical advice/attention
P405 - Store locked up
P273 - Avoid release to the environment
P391 - Collect spillage. Hazardous to the aquatic environment
Other Hazard : The substance does is not PBT / vPvB.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Chemical Name	CAS No	EC No	Weight %	Classification
N-(1,3-dimethylbutyl) -N'-phenyl-p-phenylenediamine	793-24-8	212-344-0	≥ 97	H31 H302 – Harmful if swallowed, Category 4 H317 – May cause an allergic skin reaction, Category 1 H360 – May damage fertility or the unborn child, Category 1 H400 - Very toxic to aquatic life, Category 1 H410 -Very toxic to aquatic life with long lasting effects, Category 1

4. FIRST AID MEASURES

Description of first aid measures

First-aid measures general:

In all cases of doubt, or when symptoms persist, seek medical attention.

First-aid measures after inhalation:

Move exposed person to fresh air. Keep person warm and rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous for the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be

delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

First-aid measures after skin contact:	CONTACT WITH THE HOT MELT: Cooling immediately with plenty of water. Do not remove product crusts which may have formed neither forcibly nor by applying any solvents to the skin involved. To obtain medical care for possible burns and for a smooth cleansing of the skin, seek medical advice immediately.
First-aid measures after eye contact:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
First-aid measures after ingestion:	Wash out mouth with water. Move exposed person to fresh air. Keep person warm and rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms and effects, both acute and delayed

Symptoms effects:	Harmful if swallowed. May cause an allergic skin reaction. May damage fertility or the unborn child.
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Indication of any immediate medical attention and special treatment needed

General:	If skin irritation or rash occurs, get medical advice/attention.
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5. FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing agents:	In case of fire, use water spray (fog), foam, dry chemical or CO ₂ .
Unsuitable extinguishing agents:	Not available.

Special hazards arising from the substance or mixture

General:	Decomposition products may include the following materials: carbon oxides (CO _x), nitrogen oxides (NO _x).
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Advice for firefighters

General: Self-contained breathing apparatus with full-face mask and full protective clothing (standard wear).

6. ACCIDENTAL RELEASE MEASURES*Personal precautions, protective equipment, and emergency procedures*

Non-emergency personnel No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Provide adequate ventilation. Put on appropriate personal protective equipment.

Emergency personnel Wear an appropriate NIOSH/MSHA approved respirator if dust is generated.

Environmental precautions

General: Try to prevent the material from entering drains or water courses. Advice Authorities if spillage has entered water course or sewer or has contaminated soil or vegetation.

Methods and material for containment and cleaning up

Large spill: Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

Small spill: Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.

Reference to other sections

General: See Section 8 for information on personal protection equipment. See Section 13 for information on disposal.

7. HANDLING AND STORAGE*Precautions for safe handling*

General: Put on appropriate personal protective equipment. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Persons with a history of skin sensitization problems should not be employed in any process

in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid release to the environment. Keep in the original container or an approved alternative made from compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous.

Occupational hygiene:

Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

Conditions for safe storage, including any incompatibilities

General:

Store in accordance with local regulations. Store in a dry place. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Specific end use(s)

General:

Not applicable

8. EXPOSURE CONTROLS - PERSONAL PROTECTION

Control Parameters

					Occupational Exposure Limit Value (8-hour reference period)		Occupational Exposure Limit Value (15-minute reference period)	
Country	Substance	EINECS	CAS	ppm	mg/m ³	ppm	mg/m ³	Note
Germany (DFG)	N-(1,3-Dimethylbutyl)-N'-phenyl-p-phenylenediamine Inhalable fraction	212-344-0	793-24-8	-	2	-	4	-
Germany (DFG)	N-Isopropyl-N'-phenyl-p-phenylene diamine Inhalable fraction	202-969-7	101-72-4	-	2	-	4	-
Germany (AGS)	4-Aminodiphenylamine Inhalable fraction	202-951-9	101-54-2	0.91	7	1.82	14	Skin
Ireland	Diphenylamine	204-539-4	122-39-4	-	10	-	20	-

Ireland	4-Methylpentan-2-one	203-550-1	108-10-1	20	83	50	208	-
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Additional exposure limits: Not available

DNEL/DMEL and PNEC Values: Not available

Exposure controls

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

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.
Recommended: safety glasses with side-shields.

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. After contamination with product change the gloves immediately and dispose of them according to relevant national and local regulations <1 hours (breakthrough time): PVC , nitrile rubber , Polychloroprene - CR.

Body protection: Standard work wear and safety boots for normal handling and use.

Respiratory protection: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Thermal hazard: Wear suitable protective clothing to prevent heat.

Environmental exposure controls: Avoid discharge into the environment. According to local regulations, Federal and official regulations.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state: Pellets	Melting Point/Melting Range: 49.2°C
Color: Dark brown	Boiling Point/Boiling Range: 163-165°C at 1.33 hPa
Odor: Aromatic	Octanol/Water Partition Coefficient A LogKoW of 4.68 is calculated
Solubility in / Miscibility with water: 1 mg/L at 50°C	pH value: Not available
Evaporation rate: Not available	Flammability limit- lower – Not available

Vapor pressure: 0.0000066 hPa	Flash point: 202.5°C at 1013hPA
Density at 50 °C: 0.995 g/ml	Flammability (solid, gaseous): Not flammable
Relative density 1.0 at 60°C	Auto ignition temperature: Not available
Viscosity Dynamic: 33 mPa.s at 60°C Kinematic: Not available	Decomposition temperature: Not available
Relative vapor density: Not available	Explosion limits Lower: Not available Upper: Not available
Molecular formula: C ₁₈ H ₂₄ N ₂	268.4

Other information

Fat solubility: Not available

Surface tension: Not available

Dissociation constant: Not available

Oxidation- reduction potential: Not available

10. STABILITY AND REACTIVITY

Reactivity

The substance is stable under normal storage and handling conditions.

Chemical stability

Stable at room temperature in closed containers under normal storage and handling conditions.

Possibility of hazardous reactions

No dangerous reactions known.

Conditions to avoid

Incompatible materials. Decomposition temperature : >200° C

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

Carbon oxides and nitrogen oxides.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

LD50(Oral, Rat):	Not available
LD50(Dermal, Rabbit):	> 7940 mg/kg
LC50(Inhalation, Rat):	Not available
Skin corrosion/Irritation:	Not classified
Serious eye damage/irritation:	Not classified
Respiratory / skin sensitization:	May cause an allergic skin reaction
Germ cell mutagenicity:	Not classified
Carcinogenicity:	Not classified
Reproductive toxicity:	May damage fertility or the unborn child
STOT- single exposure:	Not classified
STOT-repeated exposure:	Not classified
Aspiration hazard:	Not classified

Other hazards

Endocrine:	The substance is not identified as having endocrine disrupting properties.
Other:	Not applicable

12. ECOLOGICAL INFORMATION*Toxicity*

Acute (short-term) toxicity:

LC50(96h, Fish):	Not available
EC50(48h, Crustacea):	Not available
EC50(72h, Algae/aquatic plants):	Not available

Chronic (long-term) toxicity:

NOEC(Fish): Not available

NOEC(Crustacea): Not available

NOEC(Algae/aquatic plants): Not available

Persistence and degradability

Information: Aerobic Biodegradation 50% after 2.9 hours. Rapid degradation via hydrolysis: 93% after 24 hours at pH 7.0 and 25° C. Tests indicate this material will not bioaccumulate or persist in the environment.

Bioaccumulation potential

Information: Not available

Mobility in soil

Information: Not available

Results of PBT and vPvB assessment

Information: The substance is not PBT / vPvB.

Endocrine disrupting properties

Information: The substance is not identified as having endocrine disrupting properties.

Other adverse effects

Information: Not available

Additional information

Information: Not available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Recommendation: Dispose of in accordance with all applicable local and national regulations. Use recovery/recycling where feasible, otherwise incineration is the recommended method of disposal. Empty containers may contain hazardous residues. Do not cut, puncture or weld on or near to the container. Labels should not be removed from containers until they have been cleaned. Contaminated containers must not be treated as household waste. Containers should be cleaned by appropriate methods and then re-used or

disposed of by landfill or incineration as appropriate. Do not incinerate closed containers.

14. TRANSPORTATION INFORMATION

UN-Number

DOT

Not regulated

ADR, IMDG, IATA

UN3077

14.2 UN proper shipping name:

DOT

N/A

ADR

3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE SOLID,
 N.O.S (N-(1,3-dimethylbutyl) -N'-phenyl-p-phenylenediamine)
 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
 N.O.S (N-(1,3-dimethylbutyl) -N'-phenyl-p-phenylenediamine),
 MARINE POLLUTANT

IMDG

IATA

ENVIRONMENTALLY HAZARDOUS SUBSTANCE SOLID,
 N.O.S (N-(1,3-dimethylbutyl) N'-phenyl-p-phenylenediamine)

Transport hazard class(es)

DOT

Not regulated

ADR



Class: 9 (M7) Miscellaneous dangerous substances and articles.
 Label: 9

IMDG, IATA



Class: 9 Miscellaneous dangerous substances and articles.
 Label: 9

Packing group

DOT

Not regulated

ADR, IMDG, IATA

III

Environmental hazards

Marine pollutant

Product contains environmentally hazardous substances:
 (N-(1,3-dimethylbutyl) N'-phenyl-p-phenylenediamine)

Yes

Special Marking (ADR)

Symbol (fish and tree)

Special Marking (IATA)

Symbol (fish and tree)

Symbol (fish and tree)

Special precautions for user

Danger code (Kemler)

Warning: Miscellaneous dangerous substances and articles

EMS Number

90

F-A, S-F.

Transport in bulk according to:

IBC08

Annex II of MARPOL73/78 and
the IBC Code

Transport/Additional information

ADR

Limited quantities (LQ)

5 kg

Transport category

3

Tunnel restriction code

E

UN "Model Regulation"

UN3077, ENVIRONMENT ALLY HAZ ARDO US SUBSTANCE,
SOLID, N.O.S. (N-isopropyl-N'-phenyl-p-phenylenediamine), 9, III

15. REGULATORY INFORMATION

Safety, health, and environmental regulations/legislation specific to the substance or mixture

SARA Section 355 (extremely hazardous substances)	Not listed
SARA Section 313 (Specific toxic chemical listings)	Not listed
TSCA (Toxic Substances Control Act)	Listed
Proposition 65 (California)	
Chemicals known to cause cancer	Not listed
Chemicals known to cause reproductive toxicity for females	Not listed
Chemicals known to cause reproductive toxicity for males	Not listed
Chemicals known to cause developmental toxicity	Not listed
Carcinogenic Categories	
IARC (International Agency for Research on Cancer)	Not listed
TLV (Threshold Limit Value established by ACGIH)	Not listed
NIOSH-Ca (National Institute for Occupational Safety and Health)	Not listed
OSHA-Ca (Occupational Safety & Health Administration)	Not listed
Canada	
Canadian Domestic Substances List (DSL)	Listed
Canadian Ingredient Disclosure list (limit 0.1%)	Not listed
Canadian Ingredient Disclosure list (limit 1%)	Not listed
REACH	
REACH Candidate List	Not listed
REACH XIV List	Not listed

Chemical safety assessment

According to REACH, Article 14 has been carried out a chemical safety assessment of this substance

16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.