

# Sunsine IPPD

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION	
Manufacturer Shandong Sunsine Chemical Co., Ltd. Unit 1505, Nanxincang International Tower No. 22 Dongsishitiao Dongcheng District Beijing China 100007	Emergency Contact Chemtrec: 1-800-424-9300 (USA) (1)330-542-8400 (outside USA)
Trade Name(s): Sunsine IPPD Pastille, Granule	Chemical Name: N-isopropyl-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 Compounding.
Issued By: Sovereign Chemical Company  According to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and GHS	Date of Issue: November 1, 2022

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture:

Information in accordance with US 29 CFR 1910.1200 (Hazcom 2012) and Regulation (EC) No 1272/2008

H317 – Skin Sensitivity 1

### 2.2 Label elements

Labeling according to Regulation (EC) No 1272/2008

The product is classified and labeled according to the CLP regulation.

### Hazard pictograms



GHS07

Signal word: Warning

### Hazard statements

H302: Harmful if swallowed.

H317: May cause an allergic skin reaction.

### Precautionary statements

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P264: Wash hands thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P272: Contaminated work clothing should not be allowed out of the workplace.  
P273: Avoid release to the environment.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P301 + P312: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  
P302 + P352: IF ON SKIN: Wash with plenty of water.  
P333 + P313: If skin irritation or rash occurs: Get medical advice/ attention.  
P330: Rinse mouth.  
P391: Collect spillage.  
P362 + P364: Take off contaminated clothing and wash it before reuse.  
P501: Dispose of contents/container in accordance

### 2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

N-isopropyl-N'-phenyl-p-phenylenediamine, CAS No. 101-72-4, >95.0%  
4-Aminodiphenylamine CAS No. 101-54-2, < 3.0%  
N-(1,3-dimethylbutyl)-n'-phenyl-p-phenylenediamine, CAS No. 793-24-8, < 1.0%  
H<sub>2</sub>O, CAS No. 7732-18-5, < 0.5%  
Calcium Carbonate, CAS No. 471-34-1, < 0.5%

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

General information: Symptoms of poisoning may even occur after several hours; therefore, medical observation for at least 48 hours after the accident.

After inhalation: Move exposed person to fresh air. Keep person warm and at 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 to the person providing aid to give mouth-to-mouth resuscitation.

After skin contact: Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

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.

After swallowing: Wash out mouth with water. Move exposed person to fresh air. Keep person warm and at 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.

4.2 Most important symptoms and effects, both acute and delayed: Gastric or intestinal disorders.  
Hazards: No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed: No further relevant information available.

## 5. FIRE FIGHTING MEASURES

### 5.1 Extinguishing media

Suitable extinguishing agents: Use water spray (fog), foam, dry chemical or CO<sub>2</sub>.

For safety reasons, unsuitable extinguishing agents: None.

5.2 Special hazards arising from the substance or mixture: Formation of toxic gases is possible during heating or in case of fire.

### 5.3 Advice for firefighters

Protective equipment

Wear self-contained respiratory protective device.

Wear fully protective suit.

Additional information: Cool endangered receptacles with water spray.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment, and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

6.2 Environmental precautions Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

### 6.3 Methods and material for containment and cleaning up

Pick up mechanically.

Send for recovery or disposal in suitable receptacles.

Dispose contaminated material as waste according to item 13.

### 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Prevent formation of dust.

Any unavoidable deposit of dust must be regularly removed.

Information about fire and explosion protection: No special measures required.

## 7.2 Conditions for safe storage, including any incompatibilities

### Storage

Requirements to be met by storerooms and receptacles

Store in a cool location.

Protect from humidity and water.

Avoid storage near extreme heat, ignition sources or open flame.

Information about storage in one common storage facility

Store away from foodstuffs.

Do not store together with oxidizing and acidic materials.

Further information about storage conditions: Store in cool, dry conditions in well-sealed receptacles.

7.3 Specific end use(s): No further relevant information available.

## 8. EXPOSURE CONTROLS - PERSONAL PROTECTION

Additional information about design of technical facilities: No further data; see item 7.

### 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace: Not required.

DNELs and PNECs:

Workers - Hazard via inhalation route-Systemic effects-Long term exposure-DNEL (Derived No Effect Level): 0.8 mg/m<sup>3</sup>

Workers - Hazard via inhalation route-Systemic effects- Acute/short term exposure- DNEL (Derived No Effect Level): 6.4 mg/m<sup>3</sup>

Workers - Hazard via dermal route- Systemic effects- Long term exposure- DNEL (Derived No Effect Level): 0.113 mg/kg bw/day

Workers - Hazard via dermal route- Systemic effects- Acute/short term exposure - DNEL (Derived No Effect Level): 0.9 mg/kg bw/day

General Population - Hazard via inhalation route- Systemic effects- Long term exposure- DNEL (Derived No Effect Level): 0.2 mg/m<sup>3</sup>

General Population - Hazard via inhalation route- Systemic effects- Acute/short term exposure - DNEL (Derived No Effect Level): 1.6 mg/m<sup>3</sup>

General Population - Hazard via dermal route- Systemic effects- Long term exposure- DNEL (Derived No Effect Level): 0.06 mg/kg bw/day

General Population - Hazard via dermal route- Systemic effects- Acute/short term exposure - DNEL (Derived No Effect Level): 0.5 mg/kg bw/day

General Population - Hazard via oral route- Systemic effects- Long term exposure- DNEL (Derived No Effect Level): 0.06 mg/kg bw/day

General Population - Hazard via oral route- Systemic effects- Acute/short term exposure - DNEL (Derived No Effect Level): 0.5 mg/kg bw/day

Hazard for aquatic organisms- PNEC aqua (freshwater): 0.28 µg/L

Hazard for aquatic organisms- PNEC aqua (marine water): 0.028 µg/L

Hazard for aquatic organisms- PNEC aqua (intermittent releases): 4.1 µg/L

Hazard for aquatic organisms- PNEC STP: 0.344 mg/L

Hazard for aquatic organisms- PNEC sediment (freshwater): 0.008 mg/kg sediment dw

Hazard for terrestrial organisms- PNEC soil: 0.001 mg/kg soil dw

8.2 Exposure

Hazard for aquatic organisms- PNEC sediment (marine water): 0.001 mg/kg  
 Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Personal protective equipment

General protective and hygienic measures

- Keep away from foodstuffs, beverages, and feed.
- Immediately remove all soiled and contaminated clothing
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes and skin.

Respiratory protection

- Use suitable respiratory protective device in case of insufficient ventilation.
- Use suitable respiratory protective device when high concentrations are present.

Protection of hands



Protective gloves

The glove material must be impermeable and resistant to the product/ the substance/ the preparation.  
 Due to missing tests, no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time must be found out by the manufacturer of the protective gloves and must be observed.

Eye protection



Safety glasses

Body protection: Protective work clothing.

Limitation and supervision of exposure into the environment: No further relevant information available.

Risk management measures

- See Section 7 for additional information.
- No further relevant information available.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

9.1 Information on basic physical and chemical properties:

General Information

Appearance Form: Flakes. Color: Dark-gray to black	Change in Condition Melting Point/Melting Range: 78.5 - 79 °C Boiling Point/Boiling Range: > 148 - < 152 °C.
Odor: Aromatic odor.	Octanol/Water Partition Coefficient: Not determined.
Odor threshold: Not determined.	pH Value: Not applicable.
Vapor pressure: Not applicable.	Flash point: Not determined.

Density at 20 °C: 1.04 g/cm <sup>3</sup> .	Flammability (solid, gaseous): Product is not flammable.
Relative density: Not determined.	Ignition temperature: Not determined.
Vapor density: Not applicable.	Decomposition temperature: Not determined.
Evaporation rate Not applicable.	Self-igniting: Not determined
Solubility in / Miscibility with water: Slightly soluble.	Danger of explosion: Product does not present an explosion hazard.
Viscosity Dynamic: Not applicable. Kinematic: Not applicable.	Explosion limits Lower: Not determined. Upper: Not determined.

9.2 Other information: No further relevant information available.

**10. STABILITY AND REACTIVITY**

10.1 Reactivity

The substance is stable under normal storage and handling conditions.

10.2 Chemical stability

Thermal decomposition/conditions to be avoided: No decomposition if used and stored according to specifications.

10.3 Possibility of hazardous reactions: Reacts with strong acids and oxidizing agents.

10.4 Conditions to avoid: No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products

Nitrogen oxides.

Carbon monoxide and carbon dioxide.

**11. TOXICOLOGICAL INFORMATION**

11.1 Information on toxicological effects

Acute toxicity

LD/LC50 values relevant for classification		
Oral, Rat	LD50	522 mg/kg
Dermal, Rabbit	LD50	>7940 mg/kg

Primary irritant effect

Skin corrosion/Irritation: Not classified

Serious eye damage/irritation: Not classified

Respiratory or skin sensitization: May cause an allergic skin reaction.

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: Not classified

STOT- single exposure: Not classified

STOT-repeated exposure: Not classified

**12. ECOLOGICAL INFORMATION**

12.1 Toxicity

Aquatic toxicity: Toxic for aquatic organisms

Acute toxicity	Time	Species	Method
LC50 0.41 mg/L	96h	Fish	OECD 203
EC50 0.69 mg/L	48h	Daphnia	OECD 202
EC50 2.6 mg/L	72h	Algae	OECD 201

12.2 Persistence and degradability: Under test conditions no biodegradation observed.

12.3 Bio-accumulative potential: BCF=3.3 - 9.2.

12.4 Mobility in soil: No further relevant information available.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects: Very toxic to aquatic life with long lasting effects.

**13. DISPOSAL CONSIDERATIONS**

13.1 Waste treatment methods

Recommendation

The material should be disposed of by incineration in a chemical incinerator in compliance with national and regional requirements.

**14. TRANSPORTATION INFORMATION**

14.1 UN-Number

DOT	Not regulated
ADR, IMDG, IATA	UN3077

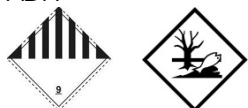
14.2 UN proper shipping name:

DOT	N/A
ADR	3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE SOLID, N.O.S (N-isopropyl-N'-phenyl-p-phenylenediamine)
IMDG	3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE SOLID, N.O.S (N-isopropyl-N'-phenyl-p-phenylenediamine), vMARINE POLLUTANT
IATA	3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE SOLID, N.O.S (N-isopropyl-N'-phenyl-p-phenylenediamine)

14.3 Transport hazard class(es)

DOT	Not regulated
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ADR



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

IMDG, IATA



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

14.4 Packing group

DOT

ADR, IMDG, IATA

Not regulated  
III

14.5 Environmental hazards

Marine pollutant  
Special Marking (ADR)  
Special Marking (IATA)

Product contains environmentally hazardous substances:  
(N-(1,3-dimethylbutyl) N'-phenyl-p-phenylenediamine)  
Yes  
Section 2.2  
Section 2.2

14.6 Special precautions for user

Danger code (Kemler)  
EMS Number

Warning: Miscellaneous dangerous substances and articles  
90  
F-A, S-F.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

**15. REGULATORY INFORMATION**

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

United States (USA)	
SARA Section 355 (extremely hazardous substances)	Substance is not listed.
SARA Section 313 (Specific toxic chemical listings)	Substance is not listed.
TSCA (Toxic Substances Control Act)	Substance is listed.
Proposition 65 (California)	
Chemicals known to cause cancer	Substance is not listed.
Chemicals known to cause reproductive toxicity for females	Substance is not listed.
Chemicals known to cause reproductive toxicity for males	Substance is not listed.
Chemicals known to cause developmental toxicity	Substance is not listed.
Carcinogenic Categories	
EPA (Environmental Protection Agency)	Substance is not listed.
IARC (International Agency for Research on Cancer)	Substance is not listed.
TLV (Threshold Limit Value established by ACGIH)	Substance is not listed.
NIOSH-Ca (National Institute for Occupational Safety and Health)	Substance is not listed.
OSHA-Ca (Occupational Safety & Health Administration)	Substance is not listed.
Canada	
Canadian Domestic Substances List (DSL)	Substance is listed.



Canadian Ingredient Disclosure list (limit 0.1%)	Substance is not listed.
Canadian Ingredient Disclosure list (limit 1%)	Substance is not listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

**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.

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labeling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent