

Material Safety Data Sheet

Sirantox® IPPD (4010NA)



SINORGCHEM

SDS Record Number: RTMS-TCO-001-100171EN

Version 1.1

Revision date: 25/02/2014

Printing date: 07/05/2012

1 Identification of the substance and of the company/undertaking

1.1 Product identifier:

Identification on the label/Trade name: Sirantox® IPPD (4010NA)
Chemical Name: N-isopropyl-N'-phenyl-1,4-phenylenediamine
Product code: P0202
Identification of the product: CAS# 101-72-4 ; EC# 202-969-7

1.2 Relevant identified uses of the substance and uses advised against:

1.2.1 Identified uses:

Used as rubber antioxidant.

1.2.2 Uses advised against:

Not available.

1.3 Details of the supplier of the safety data sheet:

Supplier(Manufacturer): Jiangsu Sinorgchem Technology Co., Ltd.
Address: 22F Yongda International Tower, 2277 Long Yang Road, Shanghai, China
Contact person(E-mail): -
Telephone: +86-21-50619988
Fax: +86-21-50117200

1.4 Emergency telephone Number:

+86 800 2562 5688

Available outside office hours?

YES

NO

2 Hazards Identification

2.1 Classification of the substance

2.1.1 Classification:

The substance is classified as following according to GHS and 67/548/EEC:

GHS	
Hazard classes/Hazard categories	Hazard statement
N/A	N/A

For full text of H- phrases: see section 2.2.

67/548/EEC	
Hazards characteristics	R-Phrases
N/A	N/A

For full text of R- phrases: see section 16.

2.1.2 The most important adverse effects

2.1.2.1 The most important adverse physicochemical effects:

Not applicable.

2.1.2.2 The most important adverse human health effects:

Not applicable.

2.1.2.3 The most important adverse environmental effects:

Not applicable.

2.2 label elements

Hazard Pictograms: No hazard pictogram is used.

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Signal Word(S): No signal word is used.
Hazard Statement: Not applicable.
Precautionary Statement: Not applicable.
Prevention:
Precautionary Statement: Not applicable.
Response:
Precautionary Statement: Not applicable.
Storage:
Precautionary Statement: Not applicable.
Disposal:

3 Composition/information on ingredients

Substance/Mixture: Substance

Ingredient(s):

Chemical Name	Index number.	CAS No.	EC No.	Concentration
N-isopropyl-N'-phenyl-p-phenylenediamine	-	101-72-4	202-969-7	≥95%
N-1,3-dimethylbutyl-N'-phenyl-p-phenylenediamine	-	793-24-8	212-344-0	≤0.3%
N-(4-aminophenyl)aniline	-	101-54-2	202-951-9	≤1.0%
diphenylamine	-	122-39-4	204-539-4	≤0.2%
Impurities	-	-	-	≤3.5%

4 First aid measures

4.1 Description of first aid measures:

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

4.1.1 In case of inhalation:

Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.

4.1.2 In case of skin contact:

Wash with soap and water. Remove contaminated clothing and launder before reuse. If irritation persists, seek medical attention.

4.1.3 In case of eyes contact:

In case of contact, flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

4.1.4 In case of ingestion:

If swallowed, call a physician immediately. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

The product is not classified as harmful to human health effect.

4.3 Indication of any immediate medical attention and special treatment needed

If skin irritation or rash occurs, get medical advice/attention.

5 Fire-Fighting measures

5.1 Extinguishing media:

Suitable extinguishing media: Water spray (fog), foam, dry chemical or CO₂.

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Unsuitable extinguishing media: Not available.

5.2 Special hazards arising from the substance or mixture

Decomposition products may include the following materials: carbon oxides and nitrogen oxides.

5.3 Advice for fire-fighters:

Fire-fighters should wear appropriate protective equipment and self contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Provide adequate ventilation. Put on appropriate personal protective equipment.

6.2 Environmental Precautions:

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Do not allow material to be released to the environment without proper governmental permits.

6.3 Methods for Containment and Cleaning up:

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal. Dispose of contaminated material as waste according to section 13. Clean up affected area.

6.4 Additional information:

Don't use a brush or compressed air for cleaning surfaces or clothing.
Clear spills immediately.

7 Handling and storage

7.1 Safe handling:

7.1.1 Protective measures:

Good hygienic practices should be observed. Avoid contact with skin and eyes. Avoid breathing dust; if exposed to high dust concentration, leave area immediately. Work clothes should be washed separately at the end of each work day. Since empty containers contain product residue, follow all hazard warnings and precautions even after container is emptied. Keep away from sources of ignition. Ensure good ventilation/exhaustion at the workplace. Normal measures for preventive fire protection.

7.1.2 Advice on general 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.

7.2 Storage:

Store in closed containers or wrap in brown paper with tray in a cool, dry, well-ventilated area. Store away from strong oxidizing materials, acids. Avoid exposure to direct sunlight. Store in air conditioning room preventing harden in summer. Storage at temperatures above 30°C is NOT recommended.

8 Exposure control/personal protection

8.1 Control parameters:

8.1.1 Occupational exposure limits: Not available.

8.1.2 Appropriate engineering controls:

Adequate ventilation should be provided to keep dust concentrations below acceptable exposure limits. Discharge from the ventilation system should comply with the applicable air pollutions control regulations.

8.2 Personal protection :

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.

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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	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
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. Recommended: dust-protection mask.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	Pastilles
Colour:	Grey purple to purple brown
Odour:	Pungent
pH:	9.3
Melting point/range (°C):	≥70°C
Boiling point/range (°C) :	366°C
Flash point (°C) :	Not available
Upper/lower flammability/explosive limits:	Not available
Vapour pressure (20°C) :	Not available
Vapour density:	Not available
Relative Density (25°C):	1.04 g/cm ³ (CAS#101-72-4)
Water solubility (g/l) at 20°C :	Negligible
n-Octanol/Water (log Po/w) :	log Pow=3.28(CAS#101-72-4)
Auto-ignition temperature:	Not available
Ignition temperature:	Not available
Decomposition temperature:	Not available

9.2. Other information:

Odour threshold:	Not available
Evaporation rate:	Not available
Flammability (solid, gas) :	Non flammable (CAS#101-72-4)
Bulk density (kg/m ³) :	Not available

10 Stability and reactivity

10.1 Reactivity:

The substance is stable under normal storage and handling conditions.

10.2 Possibility of hazardous reactions:

No dangerous reactions known.

10.3 Conditions to avoid:

Incompatible materials. High temperatures.

10.4 Incompatible materials:

Strong oxidizing agents, acids.

10.5 Hazardous decomposition products:

Carbon oxides and nitrogen oxides.

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11 Toxicological information

11.1 Toxicokinetics, metabolism and distribution

Non-human toxicological data: Not available

11.2 Information on toxicological effects

Acute toxicity:

LD50(Oral, Rat): Not available

LD50(Dermal Rabbit): > 7940 mg/kg bw (CAS#101-72-4)

LC50(Inhalation, Rat): Not available

Skin corrosion/Irritation: Not classified

Serious eye damage/irritation: Not classified

Respiratory or skin sensitization: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: Not classified

STOT- single exposure: Not classified

STOT-repeated exposure: Not classified

Aspiration hazard: Not classified

12 Ecological information

Toxicity:

Acute toxicity		Time	Species	Method	Evaluation	Remarks
LC50	N/A	96h	Fish	OECD 203	N/A	N/A
EC50	N/A	48h	Daphnia	OECD 202	N/A	N/A
EC50	N/A	72h	Algae	OECD 201	N/A	N/A

Persistence and degradability: Not available.

Bioaccumulative potential: Not available.

Mobility in soil: Not available.

13 Disposal considerations

13.1 Waste treatment methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

13.2 Product / Packaging disposal:

If empty container retains product residues, all label precautions must be observed. Return for reuse or dispose according to national or local regulations.

14 Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN-Number:	Not regulated	Not regulated	Not regulated

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UN Proper shipping name:	Not regulated	Not regulated	Not regulated
Transport hazard Class:	Not regulated	Not regulated	Not regulated
Packaging group:	Not regulated	Not regulated	Not regulated
Environmental hazards:	Not regulated	Not regulated	Not regulated
Special precautions for user:	See section 2.2	See section 2.2	See section 2.2

15 Regulation information

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

Whether be recorded by other nations chemicals directory : Not available.

15.2 Downstream users precautions:

Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

16 Other information

16.1 Indication of changes Version 1.1 Amended by EU No 453/2010

16.2 Relevant R- phrases (number and full text):

Not applicable.

16.3 Training instructions:

Not applicable.

16.4 Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

16.5 Notice to reader:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees.

This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.