

Room 501,2-3 Unit No.8,Zhengzhou Road,Qingdao,China.
TEL: <u>86 18661665800</u> Email: <u>Dana@ylsch-rbb.com</u>
Website: <u>www.ylsch-rbb.com</u>

MATERIAL SAFETY DATA SHEET

: According to EC-directive 2001/58/EC

Rubber Antioxidant 4010NA(IPPD) HS Code: 29215190.90

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product label name N-isopropyl-N'-phenyl-p-phenylene diamine

Qingdao YLSCH Industry&Trade Co.,Ltd

Supplier Room 501,2-3 Unit. No.8,Zhengzhou Road,

Qingdao, China.

TEL: +86 18661665800

Emergency telephone TEL: +86 18661665800

Intended use Rubber Antioxidant

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name N-isopropyl-N'-phenyl-p-phenylene diamine

CAS NO. 101-72-4

Chemical description Dark brown to violet pellet

3. HAZARDS IDENTIFICATION

May cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES

Dust may be irritating to the respiratory tract and cause symptoms of

Symptoms and effects bronchitis.

Repeated contact may cause skin sensitization.

First aid

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

Inhalation Move to fresh air. If symptoms persist, seek medical advice.

Remove all contaminated clothing immediately. Wash off with plenty of

Skin soap and water.

Seek medical advice if irritation develops. Launder clothes before reuse.



Eve

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Rinse thoroughly with plenty of water. Eyelids should be held away from

the eyeball to ensure thorough rinsing.

Seek medical advice if irritation develops.

If swallowed, call a physician immediately. Only induce vomiting at the

Ingestion instruction of a physician. Never give anything by mouth to an

unconscious person.

Advice to physician Treat symptomatically. Monitor respiratory system function.

5. FIRE-FIGHTING MEASURES

Extinguishing media Waterspray, water mist, foam, dry chemical powder, CO₂

Unsuitable extinguishing media Waterjet

Special exposure hazards Emits toxic fumes under fire conditions.

Hazardous decomposition/ Combustion products

Carbon monoxide (CO), carbon dioxide (CO₂), nitrous gases (NOx).

Protective equipment Wear self contained breathing apparatus.

Other information Do not allow run-off from fire fighting to enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions For personal protection see Section 8. Avoid dust generation.

Environmental precautionsAvoid discharge into the environment.

Collect as much as possible in a clean container for

Methods for cleaning up (preferable) reuse or disposal.

7. HANDLING AND STORAGE

Handling Avoid contact with skin and eyes. Avoid dust generation.

Take precautionary measures against static discharges.

Fire and explosion prevention Dust/air mixtures may ignite violently upon exposure to

sparks or sources of ignition.

Storage requirements Store in a dry and cool place. Store away from strong oxidizing materials.

Avoid exposure to direct sunlight. Do not double stack.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls Avoid dust generation. Ensure good ventilation and local

exhaustion of the working area.

Exposure limits



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Name:N-isopropyl-N '

-phenyl-p-phenylene

diamine

Personal protection

Respiratory Avoid breathing dust. In case of insufficient ventilation,

wear suitable respiratory equipment.

HandWear suitable gloves.EyeWear safety goggles.

Skin and bodyWear suitable protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Dark brown to violet granule	Colour	Dark brown to violet
Odour	Amine-like	Boiling point	161℃
Melting point≽	70 ℃	Flash point	303 °F/ 150 . 5 °C
Flammability	Solid:substance:not (in)flammable.	Explosion limits	
Explosive properties	Dust:dust-explosion hazard	Decomposition temperature	
Oxidizing properties	not applicable	Vapour pressure	0.00343mmHg(25℃)
Density	1.180-1.190g/cm3(20°C)	Bulk density	
Solubility in water	insoluble	Solubility in other solvents	Oil acetone benzene and toluene
pH value		Partition coefficient	Log Pow = 3.5
Residues (150um)% Max		Heating Loss % Max	
Viscosity		Assay content % ≥	95
Strrength of grain (N)	8-10	Zinc content %	

10. STABILITY AND REACTIVITY

	Stable under recommended storage and handling conditions	
Stability	(see section 7).	
Conditions to avoid	Temperatures above 300°C. Avoid contact with strong oxidants	
Materials to avoid	Strong oxidizers.	
Hazardous decomposition products	Thermal decomposition products: carbon monoxide (CO),	
	carbon dioxide(CO ₂),nitrous gases (NOx).	

11. TOXICOLOGICAL INFORMATION

Name N-isopropyl-N'-phenyl-p-phenylene diamine

Acute toxicity

Oral LG50 rat: 900mg/kg.



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Dermal LD50 rabbit: >7940mg/kg.

Irritation

Skin May cause an allergic skin reaction.

Eye May cause redness, swelling, painand tearing.

12. ECOLOGICAL INFORMATION

Name N-isopropyl-N'-phenyl-p-phenylene diamine

Ecotoxicity

96h-LC50 (Rainbow trout): 0.34 mg/l.

Fish 96h-LC50 (Bluegill sunfish): 0.43 mg/l.

96h-LC50 (Fathead minnow): 0.41mg/l.

Daphnia 48h-EC50 (Daphnia magna): 1.10 mg/l.

Algae 96h-EC50 (Cell number): 0.50 mg/l.

Fate

Degradation Biotic Not readily biodegradable.

13. DISPOSAL CONSIDERATIONS

Product Avoid discharge into the environment

Small quantities: According to local regulations.

Large quantities: Consult YLSCH Chemical for special advice.

Contaminated packaging According to local regulations.

Waste code number: Please refer to your specific industry

Other information in the European Waste Catalogue.

14. TRANSPORT INFORMATION

Land transport (ADR/ RID)

ADR class ---- RID class ----

ADR/RID packing group ---- Hazard Identification No.

Substance Identification No. ---- UN number

Environmentally hazard us substance, solid, n.o.s.

Proper Shipping Name (N-isopropyl-N'-phenyl-p-phenylene diamine)

Sea transport (IMDG-code/ IMO)



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Correct technical name ----- IMDG Class

UN Number -----

Packaging group

EMS Number ----

Air transport (ICAO-TI/ IATA-DGR)

ICAO-TI/IATA-DGR Class UN number ---

Packing group Environmentally hazardous substance, solid, n.o.s.

Correct technical name (N-isopropyl-N'-phenyl-p-phenylene diamine)

15. REGULATORY INFORMATION

Chemical description N-isopropyl-N'-phenyl-p-phenylene diamine

Labelling according to EC directives

EC-number See section 2

Classification based on Annex-1 to directive 67/548/EEC

R 43 May cause sensitization by skin contact

R(isk) phrase(s) May cause long-term adverse effects in the aquatic environment.

S 24 Avoid contact with skin

S 37 Wear suitable gloves

S(afety) phrase(s) S 60 This material and its container must be disposed of as hazardous

waste

S 61 Avoid release to the environment. Refer to special

instructions/Safety data sheets

Other information To be displayed on the label: "EC label".

Wassergefährdungsklasse (WGK)

16.OTHER INFORMATION

This information only concerns the above mentioned product and does not need to be valid if used with other product(s) or in any process. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.