

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 01/31/2020 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: Westco IPPD
Synonyms	: N-isopropyl-N'-phenyl-1,4-phenylenediamine, Antioxidant 4010NA, IPPD
1.2. Recommended use and restrictions of	on use
Use of the substance/mixture	: Rubber industry Anti-ozonant
Restrictions on use	: No additional information available
1.3. Supplier	
Western Reserve Chemical Corporation 4837 Darrow Road Stow, OH 44224 - USA T 330 650 2244 - F 330 650 2255 www.wrchem.com	
1.4. Emergency telephone number	
Emergency number	: CHEMTREC 1 800 424 9300 USA
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or mix	xture

GHS classification

Acute toxicity (oral), Category 4H302Harmful if swallowed.Skin sensitisation, Category 1H317May cause an allergic skin reaction.

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS-US labelling

Hazard pictograms (GHS)

Signal word (GHS)	: Warning
Hazard statements (GHS)	: H302 - Harmful if swallowed. H317 - May cause an allergic skin reaction.
Precautionary statements (GHS)	 P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P264 - Wash hands, forearms and face thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P272 - Contaminated work clothing must not be allowed out of the workplace. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P301+P312 - If swallowed: Call a poison center or doctor if you feel unwell. P302+P352 - If on skin: Wash with plenty of water. P321 - Specific treatment (see supplemental first aid instruction 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 hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS_US)

Not applicable

SECTION 3: Composition/information on ingredients			
3.1.	Substances		
Name	: Westco IPPD		
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Name	Product identifier	%	GHS classification
N-isopropyl-N'-phenyl-p-phenylenediamine	(CAS-No.) 101-72-4	> 95	Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

3.2.	Mixtures		
Not ap	plicable		
SECT	FION 4: First-aid measures		
4.1.	Description of first aid measur	es	
First-ai	d measures general	:	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-ai	d measures after inhalation		If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Allow the victim to rest.
First-ai	d measures after skin contact		Wash skin thoroughly with mild soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.
First-ai	d measures after eye contact		Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
First-ai	d measures after ingestion		Rinse mouth. Sip water. Do NOT induce vomiting. If unconscious, place in the recovery position and seek medical advice. Loosen tight clothing such as a collar, tie, belt or waistband.
4.2.	Most important symptoms and	effects ((acute and delayed)
Sympt	oms/effects after inhalation	:	Inhalation of vapours may cause respiratory irritation.
Sympt	oms/effects after skin contact	:	May cause an allergic skin reaction. May cause slight irritation.
Sympt	oms/effects after eye contact	:	May cause slight irritation.
Sympt	oms/effects after ingestion	:	Harmful if swallowed. Swallowing a small quantity of this material will result in serious health

: Harmful if swallowed. Swallowing a small quantity of this material will result in serious health hazard. May cause a light irritation of the linings of the mouth, throat, and gastrointestinal tract.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures				
5.1. Suitable (and unsuitable) extinguishing media				
Suitable extinguishing media : Foam. Carbon dioxide. Water spray.				
Unsuitable extinguishing media	: Do not use a heavy water stream.			
5.2. Specific hazards arising from the chemical				
Fire hazard	: Burning produces irritating, toxic and noxious fumes.			
5.3. Special protective equipment and pre	.3. Special protective equipment and precautions for fire-fighters			
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.			
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Wear a self contained breathing apparatus. Wear fire/flame resistant/retardant clothing.			
SECTION 6: Accidental release measures				
6.1. Personal precautions, protective equipment and emergency procedures				
General measures	: Avoid creating or spreading dust. Avoid contact with skin, eyes and clothing. Do not breathe dust.			

6.1.1. For non-emergency per	sonnel			
Protective equipment	: Refer to section 8.2.			
Emergency procedures	: Evacuate unnecessary personnel.			
6.1.2. For emergency responders				
6.1.2. For emergency respond	ers			
6.1.2. For emergency respond Protective equipment	ers : Refer to section 8.2.			

6.2. **Environmental precautions**

Prevent entry to sewers and public waters. Avoid release to the environment. Notify authorities if product enters sewers or public waters.

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Methods for cleaning up : On land, sweep or shovel into suitable containers. Minimise generation of dust. S from other materials.	
6.4. Reference to other section	ns
See Heading 8. Exposure controls a	d personal protection.

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Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with skin, eyes and clothing. Avoid creating or spreading dust. Do not breathe dust.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.
7.2. Conditions for safe storage, includ	ling any incompatibilities
Storage conditions	: Keep only in the original container in a cool well ventilated place. Keep container closed when not in use.
Incompatible products	: Strong oxidizers.
Incompatible materials	: Sources of ignition. Direct sunlight.
Incompatible products	not in use. : Strong oxidizers.

SECTION 8: Exposure controls/personal protection

8.1.	Control parameters			
West	co IPPD			
No ad	No additional information available			
N-iso	N-isopropyl-N'-phenyl-p-phenylenediamine (101-72-4)			
No ad	Iditional information available			

8.2. Appropriate engineering controls

Appropriate engineering controls	:	Avoid creating or spreading dust. Avoid dispersal of dust in the air (ie, clearing dust surfaces with compressed air). Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Use enclosed processes where appropriate and possible. Provide local exhaust or general room ventilation.
Environmental exposure controls	:	Avoid release to the environment. Prevent contaminated water run-off. Prevent leakage or spillage.

Individual protection measures/Personal protective equipment 8.3.

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear suitable gloves resistant to chemical penetration. Butyl rubber gloves. Breakthrough time is > 480 minutes. Minimum glove thickness is 0.11 mm.

Eye protection:

Chemical goggles or safety glasses

Respiratory protection:

Wear appropriate mask. Dust mask. Half-mask. Particle filter

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical an	d chemical properties	
	physical and chemical properties	
Physical state	: Solid	
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Appearance	: flakes.	
Colour	: Gray Black	
Odour	: aromatic	
Odour threshold	: No data available	
рН	: No data available	
Melting point	: 78.5 – 79 °C	
Freezing point	: No data available	
Boiling point	: 148 – 152 °C	
Flash point	: No data available	
Relative evaporation rate (butylacetate=1)	: No data available	
Flammability (solid, gas)	: Non flammable.	
Vapour pressure	: 0.000093 kPa	
Relative vapour density at 20 °C	: No data available	
Relative density	: 1.04	
Solubility	: No data available	
Log Pow	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
Explosive limits	: No data available	
Explosive properties	: No data available	
Oxidising properties	: No data available	

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known.

10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong oxidizers.

10.6. Hazardous decomposition products

Nitrogen oxides. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information		
11.1. Information on toxicological effects		
Acute toxicity (oral) :	Harmful if swallowed.	
Acute toxicity (dermal) :	Not classified	
Acute toxicity (inhalation) :	Not classified	
ATE (oral)	549.474 mg/kg bodyweight	
N-isopropyl-N'-phenyl-p-phenylenediamine (101-72-4)		
LD50 oral rat	522 mg/kg	
LD50 dermal rabbit	> 7940 mg/kg	
ATE (oral)	522 mg/kg bodyweight	

Skin corrosion/irritation

: Not classified

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Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: 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
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Likely routes of exposure	: Inhalation. Skin and eye contact.
Symptoms/effects after inhalation	: Inhalation of vapours may cause respiratory irritation.
Symptoms/effects after skin contact	: May cause an allergic skin reaction. May cause slight irritation.
Symptoms/effects after eye contact	: May cause slight irritation.
Symptoms/effects after ingestion	: Harmful if swallowed. Swallowing a small quantity of this material will result in serious health hazard. May cause a light irritation of the linings of the mouth, throat, and gastrointestinal tract.

SECTION 12: Ecological information	n
12.1. Toxicity	
Ecology - water	: Very toxic to aquatic life with long lasting effects.
N-isopropyl-N'-phenyl-p-phenylenediamine (101-72-4)	

N-isopropyl-N'-phenyl-p-phenylenediamine (101-72-4)	
LC50 fish 1	0.41 mg/l 96 h
EC50 crustacea	0.69 mg/l 48 h

12.2. Persistence and degradability

Westco IPPD	
Persistence and degradability	May cause long-term adverse effects in the environment.
N-isopropyl-N'-phenyl-p-phenylenediamine (101-72-4)	
Persistence and degradability	Not readily biodegradable.
Biodegradation	18.9 % 32 d

12.3. **Bioaccumulative potential**

Westco IPPD	
Bioaccumulative potential	Not established.
N-isopropyl-N'-phenyl-p-phenylenediamine (101-72-4)	
Log Pow	2.77
12.4. Mobility in soil	

Westco IPPD	
Ecology - soil	Not established.

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12.5.
         Other adverse effects
Other information
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: Avoid release to the environment.

SECTION 13: Disposal consideration	S
13.1. Disposal methods	
Sewage disposal recommendations	: Do not dispose of waste into sewer.
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated.

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Transport by sea

Transport document description (IMDG)	: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (N-isopropyl-N'- phenyl-p-phenylenediamine), 9, III, MARINE POLLUTANT
UN-No. (IMDG)	: 3077
Proper Shipping Name (IMDG)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Class (IMDG)	: 9 - Miscellaneous dangerous substances and articles
Packing group (IMDG)	: III - substances presenting low danger
Limited quantities (IMDG)	: 5 kg
Air transport	
Transport document description (IATA)	: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (N-isopropyl-N'- phenyl-p-phenylenediamine), 9, III
UN-No. (IATA)	: 3077
Proper Shipping Name (IATA)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Proper Shipping Name (IATA) Class (IATA)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. : 9 - Miscellaneous Dangerous Goods

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

CANADA

N-isopropyl-N'-phenyl-p-phenylenediamine (101-72-4)
Listed on the Canadian DSL (Domestic Substances List) inventory.
National regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information	
Data sources	: TSCA Chemical Substance Inventory. Accessed at http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html. European Chemicals Agency (ECHA) C&L Inventory database. Accessed at http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database. ACGIH (American Conference of Government Industrial Hygienists). Manufacturer Information. Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition. National Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th edition. OSHA 29CFR 1910.1200 Hazard Communication Standard. NFPA 400-2013 Hazardous Materials Code.
Other information	: None.

Full text of H-statements:

H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.

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H410	Very toxic to aquatic life with long lasting effects.
Abbreviations and acronyms:	
	CAS (Chemical Abstracts Service) number
	EC50: Environmental Concentration associated with a response by 50% of the test population.
	GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).
	LD50: Lethal Dose for 50% of the test population
	STEL: Short Term Exposure Limits
-	TSCA: Toxic Substances Control Act
-	TWA: Time Weighted Average
NFPA health hazard	: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
NFPA fire hazard	: 1 - Materials that must be preheated before ignition can occur.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and not reactive with water.
Hazard Rating	~
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NC react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
Personal protection	: J
	J - Splash goggles, Gloves, Synthetic apron, Dust & vapor respirator
SDS Prepared by: The Redstone Group 110 Polaris Pkwy Suite 200 Westerville, OH USA P: +1 (614) 923-7472 www.redstonegrp.com	

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.