



MATERIAL SAFETY DATA SHEET

NFPA HMIS Personal Protective Equipment



Health Hazard	2
Fire Hazard	1
Reactivity	0



See Section 8.

1. CHEMICAL PRODUCT AI	ND COMPANY IDENTIFICATION				
Product code:	S1156				
Product Name:	Sodium o-Phenylphenate				
Chemical Name:	[1,1'-Biphenyl]-2-ol, sodium salt, tetrahydrate				
Synonyms:	2-Biphenylol, sodium salt, tetrahydrate				
	o-Phenylphenol, sodium salt, tetrahydrate				
	2-Phenylphenol, sodium salt, tetrahydrate				
	2-Hydroxydiphenyl sodium, tetrahydrate				
Recommended use:	Wood preservation. Biocide. Fungicide. Antimicrobial agent.				
CAS #:	6152-33-6				
Formula:	C12-H9-O-Na.4H2O				
RTECS #	DV7750000				
CI#:	Not available				
Supplier:	Spectrum Chemicals and Laboratory Products, Inc.				
	14422 South San Pedro St.				
	Gardena, CA 90248				
	(310) 516-8000				
Emergency Telephone Number:	CHEMTREC: 1-800-424-9300				
Contact Person:	Martin LaBenz (West Coast)				
Contact Person:	Chris Terpak (East Coast)				

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WARNING!. May be harmful if swallowed. WARNING! IRRITANT. Irritating to eyes. Irritating to skin. Irritating to respiratory system.

Odor:Physical state:Appearance:Color:No information availableSolid.Flakes.White. Off-white. Beige.

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Product code: S1156 Product name: Sodium o- 1/10 Phenylphenate

2. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

Principal Routes of Exposure:

Ingestion. Inhalation.

Acute Potential Health Effects:

Skin Contact:

Contact causes skin irritation.

Eye Contact:

Causes eye irritation. May cause corneal injury.

Inhalation:

Irritating to respiratory system.

Ingestion:

May be harmful if swallowed. May affect respiration. May cause central nervous system effects. It may affect the urinary system. May affect the liver. May affect the blood.

Chronic Potential Health Effects:

Component

Sodium o-Phenylphenate, tetrahydrate 6152-33-6 (100) Carcinogen Status:

Group 2B - Possibly Carcinogenic to Humans by IARC

Target Organs: No information available

Teratogenic Effects: May cause birth defects (teratogenic effects) based on animal test data

Showed teratogenic effects in animal experiments

Mutagenic Effects: May affect genetic material . Mutations in microorganisms. Experiments with bacteria

and/or yeast have shown mutagenic effects. Animal experiments showed mutagenic

effects.

Aggravated Medical Conditions: No information available

See Section 11 for additional Toxicological Information

POTENTIAL ENVIRONMENTAL EFFECTS

No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Sodium o-Phenylphenate, tetrahydrate	6152-33-6	100

4. FIRST AID MEASURES

General Advice: Poison information centres in each State capital city can provide additional

assistance for scheduled poisons (13 1126)

Product code: S1156 Product name: Sodium o- 2/10

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated

clothes and shoes. Get medical attention. If skin irritation persists, call a physician.

Eye Contact: Flush eye with water for 15 minutes. Get medical attention.

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. In case of shortness of breath,

give oxygen. Get medical attention.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Obtain medical attention.

Notes to Physician: Treat symptomatically

5. FIRE-FIGHTING MEASURES

Flammable Properties

Flashpoint (°C/°F):	No information available.	
Tested according to:		

Not available

Lower Explosion Limit (%):

Upper Explosion Limit (%):

No information available

No information available

Autoignition Temperature (°C/°F): Not applicable.

Suitable Extinguishing Media: Carbon dioxide (CO2). Dry chemical. Water spray mist or

foam.

Unsuitable Extinguishing Media: No information available.

Hazardous Combustion Products: Carbon monoxide; Carbon dioxide; sodium oxides

Specific hazards: May be combustible at high temperatures.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

Specific Methods: No information available.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Remove all sources of ignition.

Environmental Precautions:

No information available.

Methods for Cleaning Up:

Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Product code: S1156 Product name: Sodium o- 3/10

Handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

Safe Handling Advice:

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not ingest. Do not breathe vapours/dust. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

Storage

Technical Measures/Storage Conditions:

Hygroscopic. Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

Incompatible Products:

Oxidizing agents. Acids. Bases.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure: Ensure adequate ventilation. Use process enclosures, local

exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure

limit.

Personal Protective Equipment

Eye protection: Safety glasses. Safety glasses with side-shields.

Skin and body protection: Long sleeved clothing. Chemical resistant apron. Gloves.

Respiratory protection: Wear respirator with dust filter.

Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and

immediately after handling the product. When using, do not eat, drink or smoke.

National occupational exposure limits

United States

U.S Occupational Exposure Limits: Not determined

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
	None	None	None	None
Sodium o-Phenylphenate,				
tetrahydrate - 6152-33-6				

Canada

Canada Occupational Exposure Limits: Not determined

Components	Alberta	British Columbia	Ontario	Quebec
Sodium o-Phenylphenate,	None	None	None	None
tetrahydrate				
6152-33-6				

Australia and Mexico

Occupational Exposure Limits for Australia and Mexico: Not determined

Product code: S1156 Product name: Sodium o- 4/10

Components	Australia	Mexico
Sodium o-Phenylphenate,	None	None
tetrahydrate		
6152-33-6		

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Appearance: Color:

Solid. Flakes. White. Off-white. Beige.

Odor: **Taste** Molecular/Formula weight:

No information available No information available 264.23

Flash point (°C): Lower Explosion Limit (%): **Upper Explosion Limit (%):**

Not applicable Not applicable Not applicable

Autoignition Temperature (°C/°F): pH:

Boiling point/range(°C/°F): No information available No information available No information available

Melting point/range(°C/°F): Decomposition temperature(°C/°F): Specific gravity:

No information available No information available No information available

Density (g/cm3): **Bulk density:** Vapor pressure @ 20°C (kPa):

No information available No information available No information available

Vapor density: **Evaporation rate:** VOC content (g/L): No information available No information available No information available

Odor threshold (ppm): Partition coefficient Miscibility:

No information available (n-octanol/water): No information available

No information available

10. STABILITY AND REACTIVITY

Stability: Stable at normal conditions

Conditions to avoid: Heat. Avoid dust formation. Incompatible materials.

Materials to avoid: Strong oxidising agents. Acids. Strong bases.

Hazardous decomposition

products:

Solubility:

Very soluble in water Very soluble in Acetone Very soluble in Methanol

Carbon monoxide. Carbon dioxide. Sodium oxides.

Possibility of Hazardous

Reactions:

No information available

Hazardous polymerisation does not occur Polymerization:

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product code: S1156 Product name: Sodium o-5/10

Component Information

Sodium o-Phenylphenate, tetrahydrate - 6152-33-6

LD50/oral/rat = 1049 mg/kg Oral LD50 Rat LD50/oral/mouse = No information available LD50/dermal/rabbit = No information available LD50/dermal/rat = No information available

LC50/inhalation/rat =
No information available
LC50/inhalation/mouse =
No infomaton available

Other LD50 or LC50information =

No information available

Product Information

LC50/inhalation/rat = No information available LC50/Inhalation/mouse = No information available LD50/dermal/rabbit = No information available LD50/dermal/rat = No information available LD50/oral/mouse = No information available

LD50/oral/rat = 1049 mg/kg

Local Effects

Skin irritation: Causes skin irritation.

Eye irritation: Causes eye irritation. May cause corneal injury.

Inhalation: Irritating to respiratory system.

Ingestion: May be harmful if swallowed. May affect behavior/central nervous system (ataxia). It

may cause central nervous system depression. May affect respiration (respiratory

depression).

Sensitization: No information available

Chronic Toxicity

Chronic Toxicity Prolonged or repeated ingestion may affect the blood (normocytic anemia).

Prolonged or repeated ingestion may affect the spleen. Prolonged or repeated ingestion may affect the liver. Prolonged or repeated ingestion may affect the kidneys. Prolonged or repeated ingestion may affect the bladder. Prolonged or repeated ingestion may cause loss of appetite. Prolonged or repeated ingestion may

cause weight loss.

Carcinogenic effects: May cause cancer. Possibly carcinogenic to humans.

Components	NTP	IARC	OSHA HCS - Carcinogens	ACGIH - Carcinogens	Australia - Prohibited Carcinogenic Substances	Australia - Notifiable Carcinogenic Substances
Sodium o-Phenylphenate, tetrahydrate	Not listed	Group 2B	Not listed	Not listed	Not listed	Not listed

Product code: S1156 Product name: Sodium oPhenylphenate 6 / 10

Mutagenic Effects: May affect genetic material

Mutations in microorganisms

Experiments with bacteria and/or yeast have shown mutagenic effects

Animal experiments showed mutagenic effects

Reproductive Effects: May cause adverse reproductive effects based on animal test data. Experiments

have shown reproductive toxicity effects on laboratory animals.

Teratogenic Effects: May cause birth defects (teratogenic effects) based on animal test data. Showed

teratogenic effects in animal experiments.

Target Organs: No information available

12. ECOLOGICAL INFORMATION

ECOTOXICITY

Toxicity to terrestrial and aquatic plants and animals: Information given is based on data on the components and

the ecotoxicology of similar products

Ecotoxicity effects: Very toxic to aquatic organisms.

Aquatic toxicity: No information available

Mobility: No information available

Persistence and degradability: No information available

Bioaccumulative potential: No information available

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Components	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Sodium o-Phenylphenate,	None	None	None	None
tetrahydrate				

14. TRANSPORT INFORMATION

DOT

UN-No: Not regulated

Proper Shipping Name: No information available **Hazard Class:** No information available

Packing Group: None

Subsidiary Risk:Not applicableMarine PollutantNo data availableERG No:No information availableDOT RQ (lbs):No information available

TDG (Canada)

UN-No: Not Regulated

Proper Shipping Name: No information available Hazard Class: No information available

Product code: S1156 Product name: Sodium o- 7/10

Packing Group:No information availableSubsidiary Risk:No information availableDescription:No information available

ADR

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Packing Group:
Subsidiary Risk:
Classification Code:
Description:
No information available

IMO / IMDG

UN-No: Not Regulated

No information available **Proper Shipping Name: Hazard Class:** No information available **Subsidiary Risk:** No information available **Packing Group:** No information available **Description:** No information available **IMDG Page:** No information available **Marine Pollutant** No information available MFAG: No information available **Maximum Quantity:** No information available

RID

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Packing Group:
Subsidiary Risk:
Classification Code:
Description:
No information available

ICAO

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Packing Group:
Subsidiary Risk:
Description:

No information available
No information available
No information available
No information available

IATA

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Packing Group:
Subsidiary Risk:
No information available

15. REGULATORY INFORMATION

International Inventories

Product code: S1156 Product name: Sodium o- 8/10

Components	U.S. TSCA	Philippines (PICCS)	KOREA KECL	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Sodium o-Phenylphenate,	Not Listed	Present	Not present	Not present	Present	Present	Not present
tetrahydrate							

U.S. Regulations

California Prop. 65: Safe Drinking Water and Toxic Enforcment Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	Carcinogen			Female Reproductive Toxicity:
Sodium o-Phenylphenate, tetrahydrate	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

	CERCLA - Hazardous Substances and their Reportable Quantities	Hazardous	Hazardous	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Sodium o-	None	None	None	None	None
Phenylphenate, tetrahydrate					

U.S. TSCA

•	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
		Not Applicable
tetrahydrate		

Canada

WHMIS hazard class:

D2B Toxic materials

Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Inventory

Components	Canada (DSL)	Canada (NDSL)
Sodium o-Phenylphenate,	Not Listed	Not Listed
tetrahydrate		

Components	CEPA Schedule I - Toxic Substances	CEPA - 2010 Greenhouse Gases Subject to Manditory
Sodium o-Phenylphenate,	Not listed	Not listed
tetrahydrate		

Product code: S1156 Product name: Sodium o- 9 / 10
Phenylphenate

EU Classification

R -phrase(s)

R22 - Harmful if swallowed.

R41 - Risk of serious damage to eyes.

R50 - Very toxic to aquatic organisms.

R37/38 - Irritating to respiratory system and skin.

S -phrase(s)

S22 - Do not breathe dust.

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S61 - Avoid release to the environment. Refer to special instructions/safety data sheets.

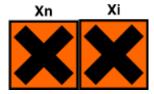
The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

Xn - Harmful.

Xi - Irritant.

N - Dangerous for the environment.





16. OTHER INFORMATION

The MSDS format complies with ANSI Z400.1-2004 standards.

Preparation Date 28-Oct-2011

Reason for revision: Not applicable

Prepared by: Sonia Owen

Literature reference: No information available

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. The physical properties reported in this MSDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

Product code: S1156 Product name: Sodium o- 10 / 10