

# Material Safety Data Sheet

<p><b>NFPA</b></p> 	<p><b>HMIS</b></p> <table border="1" style="margin: auto;"> <tr><td style="background-color: #00FFFF;">Health Hazard</td><td style="text-align: center;">2</td></tr> <tr><td style="background-color: #FFCCCC;">Fire Hazard</td><td style="text-align: center;">1</td></tr> <tr><td style="background-color: #FFFF00;">Reactivity</td><td style="text-align: center;">0</td></tr> </table>	Health Hazard	2	Fire Hazard	1	Reactivity	0	<p><b>Personal Protective Equipment</b></p>  <p>See Section 15.</p>
Health Hazard	2							
Fire Hazard	1							
Reactivity	0							

Section 1. Chemical Product and Company Identification		Page Number: 1
<b>Common Name/Trade Name</b>	<b>1-Naphthylamine</b>	
	<b>Catalog Number(s)</b>	N2917
	<b>CAS#</b>	134-32-7
<b>Manufacturer</b>	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248	
	<b>RTECS</b>	QM1400000
	<b>TSCA</b>	TSCA 8(b) inventory: 1-Naphthylamine
<b>Commercial Name(s)</b>	Fast Garnet B Base	
	<b>CI#</b>	Not available.
<b>Synonym</b>	alpha-Naphthylamine; 1-Aminonaphthalene; Naphthalidam Naphthalidine; 1-Naphthalenamine	
<b>Chemical Name</b>	1-Naphthylamine	
<b>Chemical Family</b>	Not available.	
<b>Chemical Formula</b>	C10-H9-N	
<b>Supplier</b>	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248	
	<p><b><u>IN CASE OF EMERGENCY</u></b>  <b><u>CHEMTREC (24hr) 800-424-9300</u></b></p> <p>CALL (310) 516-8000</p>	

Section 2. Composition and Information on Ingredients					
Name	CAS #	Exposure Limits			% by Weight
		TWA (mg/m <sup>3</sup> )	STEL (mg/m <sup>3</sup> )	CEIL (mg/m <sup>3</sup> )	
1) {1-}Naphthylamine	134-32-7				100
<b>Toxicological Data on Ingredients</b>	<p><b>1-Naphthylamine:</b>          ORAL (LD50): Acute: 779 mg/kg [Rat (Chemical Hazardous Response Information System; Sax's Dangerous Properties of Industrial Materials, 10th ed.)]. 490 mg/kg [Rat (Vendor MSDS)].</p>				

Section 3. Hazards Identification	
<b>Potential Acute Health Effects</b>	Hazardous in case of ingestion. Slightly hazardous in case of skin contact (irritant, permeator), of eye contact (irritant), of inhalation.
<b>Potential Chronic Health Effects</b>	<p><b>CARCINOGENIC EFFECTS:</b> 3 (Not classifiable for human.) by IARC.</p> <p><b>MUTAGENIC EFFECTS:</b> Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast.</p> <p><b>TERATOGENIC EFFECTS:</b> Not available.</p> <p><b>DEVELOPMENTAL TOXICITY:</b> Not available.</p> <p>The substance may be toxic to kidneys, liver, bladder.</p> <p>Repeated or prolonged exposure to the substance can produce target organs damage.</p>

**Section 4. First Aid Measures**

<b>Eye Contact</b>	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. WARM water MUST be used. Get medical attention if irritation occurs.
<b>Skin Contact</b>	Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.
<b>Serious Skin Contact</b>	Not available.
<b>Inhalation</b>	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
<b>Serious Inhalation</b>	Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.
<b>Ingestion</b>	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.
<b>Serious Ingestion</b>	Not available.

**Section 5. Fire and Explosion Data**

<b>Flammability of the Product</b>	May be combustible at high temperature.
<b>Auto-Ignition Temperature</b>	Not available.
<b>Flash Points</b>	CLOSED CUP: 157°C (314.6°F).
<b>Flammable Limits</b>	Not available.
<b>Products of Combustion</b>	These products are carbon oxides (CO, CO <sub>2</sub> ).
<b>Fire Hazards in Presence of Various Substances</b>	Slightly flammable to flammable in presence of open flames and sparks, of heat.
<b>Explosion Hazards in Presence of Various Substances</b>	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available. Slightly explosive in presence of heat.
<b>Fire Fighting Media and Instructions</b>	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
<b>Special Remarks on Fire Hazards</b>	COMBUSTIBLE. It may burn, but it does not ignite readily. When heated to decomposition it emits acrid smoke and irritating fumes.
<b>Special Remarks on Explosion Hazards</b>	Containers may explode when heated

**Section 6. Accidental Release Measures**

<b>Small Spill</b>	Use appropriate tools to put the spilled solid in a convenient waste disposal container.
<b>Large Spill</b>	Use a shovel to put the material into a convenient waste disposal container.

**Section 7. Handling and Storage**

<b>Precautions</b>	Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, metals, acids.
<b>Storage</b>	Keep container tightly closed. Keep container in a cool, well-ventilated area.

**Section 8. Exposure Controls/Personal Protection**

<b>Engineering Controls</b>	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.
<b>Personal Protection</b>	Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.
<b>Personal Protection in Case of a Large Spill</b>	Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
<b>Exposure Limits</b>	Not available.

**Section 9. Physical and Chemical Properties**

<b>Physical state and appearance</b>	Solid.	<b>Odor</b>	Ammoniacal.
<b>Molecular Weight</b>	143.2 g/mole	<b>Taste</b>	Not available.
<b>pH (1% soln/water)</b>	Not available.	<b>Color</b>	Yellow.
<b>Boiling Point</b>	301°C (573.8°F) @ 760 mm Hg		
<b>Melting Point</b>	48°C (118.4°F) - 50 C		
<b>Critical Temperature</b>	Not available.		
<b>Specific Gravity</b>	1.1229 (Water = 1)		
<b>Vapor Pressure</b>	Not applicable.		
<b>Vapor Density</b>	4.93 (Air = 1)		
<b>Volatility</b>	Not available.		
<b>Odor Threshold</b>	Not available.		
<b>Water/Oil Dist. Coeff.</b>	The product is more soluble in oil; log(oil/water) = 168.5		
<b>Ionicity (in Water)</b>	Not available.		
<b>Dispersion Properties</b>	See solubility in water, diethyl ether.		
<b>Solubility</b>	Easily soluble in diethyl ether. Very slightly soluble in cold water. Freely soluble in alcohol.		

**Section 10. Stability and Reactivity Data**

<b>Stability</b>	The product is stable.
<b>Instability Temperature</b>	Not available.
<b>Conditions of Instability</b>	Excess heat, light, air, incompatible materials
<b>Incompatibility with various substances</b>	Reactive with oxidizing agents, metals, acids.
<b>Corrosivity</b>	Not available.
<b>Special Remarks on Reactivity</b>	Air and light sensitive. It oxidizes in air. It becomes reddish on exposure to air. Discolors on exposure to light Also incompatible with sulfuric acid, nitric acid, halogens, aluminum, copper, copper alloys, copper salts.
<b>Special Remarks on Corrosivity</b>	Not available.
<b>Polymerization</b>	Will not occur.

**Section 11. Toxicological Information**

<b>Routes of Entry</b>	Absorbed through skin. Inhalation. Ingestion.
<b>Toxicity to Animals</b>	Acute oral toxicity (LD50): 490 mg/kg [Rat (Vendor MSDS)].
<b>Chronic Effects on Humans</b>	<b>CARCINOGENIC EFFECTS:</b> 3 (Not classifiable for human.) by IARC. <b>MUTAGENIC EFFECTS:</b> Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast. May cause damage to the following organs: kidneys, liver, bladder.
<b>Other Toxic Effects on Humans</b>	Hazardous in case of ingestion. Slightly hazardous in case of skin contact (irritant, permeator), of inhalation.
<b>Special Remarks on Toxicity to Animals</b>	Lowest Published Lethal Dose: LDL [Mammal] - Route: Oral; Dose: 4000 mg/kg Lethal Dose/Conc 50% Kill: LD50[Mouse] - Route: Intraperitoneal; Dose: 96 mg/kg
<b>Special Remarks on Chronic Effects on Humans</b>	May affect genetic material (mutagenic). May cause cancer based on animal test data
<b>Special Remarks on other Toxic Effects on Humans</b>	Acute Potential Health Effects: Skin: It can cause slight irritation of the skin. It may be absorbed through the skin and cause symptoms similar to that of ingestion. It may pass through the skin without a sense of irritation or other warning. Eyes: It can cause slight irritation of the eyes. Inhalation: It may cause respiratory tract irritation. Inhalation of large amounts may lead to formation of methemoglobin in the blood (Methemoglobinemia) which cause less oxygen to be carried by the red blood cells to body organs. This results in cyanosis (blue color in lips and under finger nails). Ingestion: Harmful if swallowed. Ingestion of large amounts may lead to formation of methemoglobin in the blood (Methemoglobinemia) which cause less oxygen to be carried by the blood cells to body organs. This results in cyanosis (blue color in lips and under finger nails. Hematuria and dysuria may also be noted. It may also affect behavior/central nervous system (muscle weakness, tremor). Chronic Potential Health Effects: Ingestion or Skin Absorption: Prolonged or repeated ingestion or skin absorption may affect the kidneys, bladder and liver.

**Section 12. Ecological Information**

<b>Ecotoxicity</b>	Ecotoxicity in water (LC50): 15 mg/l 24 hours [Fish (Oryzias Latipes (Killifish))]. 7 mg/l 48 hours [Fish (Oryzias Latipes (Killifish))].
<b>BOD5 and COD</b>	Not available.
<b>Products of Biodegradation</b>	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
<b>Toxicity of the Products of Biodegradation</b>	The products of degradation are less toxic than the product itself.
<b>Special Remarks on the Products of Biodegradation</b>	Not available.

**Section 13. Disposal Considerations**

<b>Waste Disposal</b>	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
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**Section 14. Transport Information**

<b>DOT Classification</b>	CLASS 6.1: Poisonous material.
<b>Identification</b>	UNNA: 2077: alpha-Naphthylamine PG: III
<b>Special Provisions for Transport</b>	Not available.

Continued on Next Page

DOT (Pictograms)



**Section 15. Other Regulatory Information and Pictograms**

**Federal and State Regulations**

California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: 1-Naphthylamine  
 California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: 1-Naphthylamine  
 Connecticut hazardous material survey.: 1-Naphthylamine  
 Illinois toxic substances disclosure to employee act: 1-Naphthylamine  
 Illinois chemical safety act: 1-Naphthylamine  
 New York release reporting list: 1-Naphthylamine  
 Pennsylvania RTK: 1-Naphthylamine  
 Massachusetts RTK: 1-Naphthylamine  
 Massachusetts spill list: 1-Naphthylamine  
 New Jersey: 1-Naphthylamine  
 New Jersey spill list: 1-Naphthylamine  
 Louisiana spill reporting: 1-Naphthylamine  
 California Director's List of Hazardous Substances: 1-Naphthylamine  
 TSCA 8(b) inventory: 1-Naphthylamine  
 TSCA 4(a) proposed test rules: 1-Naphthylamine  
 SARA 313 toxic chemical notification and release reporting: 1-Naphthylamine  
 CERCLA: Hazardous substances.: 1-Naphthylamine: 100 lbs. (45.36 kg)

**California Proposition 65 Warnings**

California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: 1-Naphthylamine  
 California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: No products were found.

**Other Regulations**

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).  
 EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances (EINECS No. 205-138-7).  
 Canada: Listed on Canadian Domestic Substance List (DSL).  
 China: Listed on National Inventory.  
 Japan: Listed on National Inventory (ENCS).  
 Korea: Listed on National Inventory (KECI).  
 Philippines: Listed on National Inventory (PICCS).  
 Australia: Listed on AICS.

**Other Classifications**

**WHMIS (Canada)** CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC).

**DSCL (EEC)**  
 R22- Harmful if swallowed. S24- Avoid contact with skin.  
 R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. S61- Avoid release to the environment. Refer to special instructions/Safety data sheets.

**HMIS (U.S.A.)**

Health Hazard	2
Fire Hazard	1
Reactivity	0
Personal Protection	E

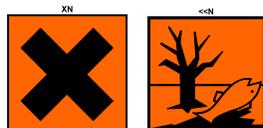
**National Fire Protection Association (U.S.A.)**

Health Flammability  
 Reactivity  
 Specific hazard

**WHMIS (Canada) (Pictograms)**



**DSCL (Europe) (Pictograms)**



**TDG (Canada)  
(Pictograms)**



**ADR (Europe)  
(Pictograms)**



**Protective Equipment**



Gloves.



Lab coat.



Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.



Safety glasses.

**Section 16. Other Information**

**MSDS Code** N0262

**References** Not available.

**Other Special Considerations** Not available.

Validated by Sonia Owen on 8/14/2009.

Verified by Sonia Owen.

Printed 8/21/2009.

CALL (310) 516-8000

**Notice to Reader**

*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. 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 Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.*