

NAPHTHA: STODDARD SOLVENT

NSS

CAUTIONARY RESPONSE INFORMATION			
Common Synonyms	Watery liquid	Colorless	Gasoline-like odor
Dyecleaner naphtha Petroleum solvent Spotting naphtha			
Floats on water.			
<p>Keep people away. Avoid inhalation. Shut off ignition sources and call fire department. Avoid contact with liquid. Notify local health and pollution control agencies. Protect water intakes.</p>			
Fire	<p>Combustible. Extinguish with foam, dry chemical or carbon dioxide. Cool exposed containers with water.</p>		
Exposure	<p>CALL FOR MEDICAL AID. LIQUID Irritating to skin and eyes. Harmful if swallowed. Remove contaminated clothing and shoes. Flush affected areas with plenty of water. IF IN EYES, hold eyelids open and flush with plenty of water. IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk. DO NOT INDUCE VOMITING.</p>		
Water Pollution	<p>Effect of low concentrations on aquatic life is unknown. Fouling to shoreline. May be dangerous if it enters water intakes. Notify local health and wildlife officials. Notify operators of nearby water intakes.</p>		

1. CORRECTIVE RESPONSE ACTIONS	2. CHEMICAL DESIGNATIONS
Stop discharge Contain Collection Systems: Skim Chemical and Physical Treatment: Burn Clean shore line Salvage waterfowl	<p>2.1 CG Compatibility Group: 33; Miscellaneous Hydrocarbon Mixtures</p> <p>2.2 Formula: Not applicable</p> <p>2.3 IMO/UN Designation: 3.3/1268</p> <p>2.4 DOT ID No.: 1268</p> <p>2.5 CAS Registry No.: Currently not available</p> <p>2.6 NAERG Guide No.: 128</p> <p>2.7 Standard Industrial Trade Classification: 33429</p>
3. HEALTH HAZARDS	
<p>3.1 Personal Protective Equipment: Goggles or face shield (as for gasoline).</p> <p>3.2 Symptoms Following Exposure: High concentration of vapors may cause intoxication. If liquid is swallowed, it may get into lungs by aspiration; not very irritating to skin or eyes.</p> <p>3.3 Treatment of Exposure: INHALATION: remove patient from exposure; treat symptoms. INGESTION: do NOT induce vomiting! Call a doctor. EYES: flush with water for 15 min. SKIN: wipe off and wash with soap and water.</p> <p>3.4 TLV-TWA: 100 ppm</p> <p>3.5 TLV-STEL: Not listed.</p> <p>3.6 TLV-Ceiling: Not listed.</p> <p>3.7 Toxicity by Ingestion: Grade 2; LD₅₀ = 0.5 to 5 g/kg</p> <p>3.8 Toxicity by Inhalation: Currently not available.</p> <p>3.9 Chronic Toxicity: None</p> <p>3.10 Vapor (Gas) Irritant Characteristics: Vapors are nonirritating to the eyes and throat.</p> <p>3.11 Liquor or Solid Characteristics: Minimum hazard. If spilled on clothing and allowed to remain, may cause smarting and reddening of the skin.</p> <p>3.12 Odor Threshold: Currently not available</p> <p>3.13 IDLH Value: 20,000 mg/m³</p> <p>3.14 OSHA PEL-TWA: 500 ppm</p> <p>3.15 OSHA PEL-STEL: Not listed.</p> <p>3.16 OSHA PEL-Ceiling: Not listed.</p> <p>3.17 EPA AEGL: Not listed</p>	

4. FIRE HAZARDS	7. SHIPPING INFORMATION								
<p>4.1 Flash Point: 110°F C.C.</p> <p>4.2 Flammable Limits in Air: 0.8%-5.0%</p> <p>4.3 Fire Extinguishing Agents: Foam, dry chemical, or carbon dioxide.</p> <p>4.4 Fire Extinguishing Agents Not to Be Used: Not pertinent</p> <p>4.5 Special Hazards of Combustion Products: Not pertinent</p> <p>4.6 Behavior in Fire: Not pertinent</p> <p>4.7 Auto Ignition Temperature: 540°F (est.)</p> <p>4.8 Electrical Hazards: Class I, Group D</p> <p>4.9 Burning Rate: 4 mm/min.</p> <p>4.10 Adiabatic Flame Temperature: Currently not available</p> <p>4.11 Stoichiometric Air to Fuel Ratio: Not pertinent</p> <p>4.12 Flame Temperature: Currently not available</p> <p>4.13 Combustion Molar Ratio (Reactant to Product): Not pertinent</p> <p>4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed</p>	<p>7.1 Grades of Purity: Currently not available</p> <p>7.2 Storage Temperature: Ambient</p> <p>7.3 Inert Atmosphere: No requirement</p> <p>7.4 Venting: Open (flame arrester)</p> <p>7.5 IMO Pollution Category: Currently not available</p> <p>7.6 Ship Type: Currently not available</p> <p>7.7 Barge Hull Type: Currently not available</p>								
8. HAZARD CLASSIFICATIONS									
<p>8.1 49 CFR Category: Flammable liquid</p> <p>8.2 49 CFR Class: 3</p> <p>8.3 49 CFR Package Group: I</p> <p>8.4 Marine Pollutant: Yes</p> <p>8.5 NFPA Hazard Classification:</p> <table> <tr> <td>Category</td> <td>Classification</td> </tr> <tr> <td>Health Hazard (Blue).....</td> <td>0</td> </tr> <tr> <td>Flammability (Red).....</td> <td>2</td> </tr> <tr> <td>Instability (Yellow).....</td> <td>0</td> </tr> </table>	Category	Classification	Health Hazard (Blue).....	0	Flammability (Red).....	2	Instability (Yellow).....	0	
Category	Classification								
Health Hazard (Blue).....	0								
Flammability (Red).....	2								
Instability (Yellow).....	0								
9. PHYSICAL & CHEMICAL PROPERTIES									
<p>9.1 Physical State at 15°C and 1 atm: Liquid</p> <p>9.2 Molecular Weight: Not pertinent</p> <p>9.3 Boiling Point at 1 atm: 320-390°F = 160-199°C = 433-472°K</p> <p>9.4 Freezing Point: Not pertinent</p> <p>9.5 Critical Temperature: Not pertinent</p> <p>9.6 Critical Pressure: Not pertinent</p> <p>9.7 Specific Gravity: 0.78 at 20°C (liquid)</p> <p>9.8 Liquid Surface Tension: 19-23 dynes/cm = 0.019-0.023 N/m at 20°C</p> <p>9.9 Liquid Water Interfacial Tension: 39-51 dynes/cm = 0.039-0.051 N/m at 20°C</p> <p>9.10 Vapor (Gas) Specific Gravity: Currently not available</p> <p>9.11 Ratio of Specific Heats of Vapor (Gas): (est.) 1.030</p> <p>9.12 Latent Heat of Vaporization: 130-150 Btu/lb = 71-81 cal/g = 3.0-3.4 X 10⁵ J/kg</p> <p>9.13 Heat of Combustion: (est.) -18,200 Btu/lb = -10,100 cal/g = -424 X 10⁵ J/kg</p> <p>9.14 Heat of Decomposition: Not pertinent</p> <p>9.15 Heat of Solution: Not pertinent</p> <p>9.16 Heat of Polymerization: Not pertinent</p> <p>9.17 Heat of Fusion: Currently not available</p> <p>9.18 Limiting Value: Currently not available</p> <p>9.19 Reid Vapor Pressure: 0.1 psia</p>									

NOTES

NAPHTHA: STODDARD SOLVENT

NSS

9.20 SATURATED LIQUID DENSITY		9.21 LIQUID HEAT CAPACITY		9.22 LIQUID THERMAL CONDUCTIVITY		9.23 LIQUID VISCOSITY	
Temperature (degrees F)	Pounds per cubic foot	Temperature (degrees F)	British thermal unit per pound-F	Temperature (degrees F)	British thermal unit inch per hour-square foot-F	Temperature (degrees F)	Centipoise
50	48.690	50	0.478	50	1.040	50	9.343
52	48.690	52	0.478	52	1.040	52	8.841
54	48.690	54	0.478	54	1.040	54	8.370
56	48.690	56	0.478	56	1.040	56	7.927
58	48.690	58	0.478	58	1.040	58	7.511
60	48.690	60	0.478	60	1.040	60	7.119
62	48.690	62	0.478	62	1.040	62	6.751
64	48.690	64	0.478	64	1.040	64	6.404
66	48.690	66	0.478	66	1.040	66	6.078
68	48.690	68	0.478	68	1.040	68	5.770
70	48.690	70	0.478	70	1.040	70	5.481
72	48.690	72	0.478	72	1.040	72	5.207
74	48.690	74	0.478	74	1.040	74	4.950
76	48.690	76	0.478	76	1.040	76	4.707
78	48.690	78	0.478	78	1.040	78	4.477
80	48.690	80	0.478	80	1.040	80	4.260
82	48.690	82	0.478	82	1.040	82	4.056
84	48.690	84	0.478	84	1.040	84	3.862
86	48.690	86	0.478	86	1.040	86	3.679
88	48.690	88	0.478	88	1.040	88	3.506
90	48.690	90	0.478	90	1.040	90	3.342
92	48.690	92	0.478	92	1.040	92	3.187
94	48.690	94	0.478	94	1.040	94	3.040
96	48.690	96	0.478	96	1.040	96	2.901
98	48.690	98	0.478	98	1.040	98	2.770
100	48.690	100	0.478	100	1.040	100	2.645

9.24 SOLUBILITY IN WATER		9.25 SATURATED VAPOR PRESSURE		9.26 SATURATED VAPOR DENSITY		9.27 IDEAL GAS HEAT CAPACITY	
Temperature (degrees F)	Pounds per 100 pounds of water	Temperature (degrees F)	Pounds per square inch	Temperature (degrees F)	Pounds per cubic foot	Temperature (degrees F)	British thermal unit per pound-F
I N S O L U B L E	90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340	90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340	0.094 0.124 0.163 0.211 0.272 0.347 0.440 0.553 0.691 0.856 1.054 1.290 1.569 1.897 2.281 2.728 3.247 3.846 4.535 5.323 6.221 7.241 8.394 9.695 11.160 12.790	N O T P E R T I N E T	N O T P E R T I N E T	C U R R E N T L Y N O T A V A I L A B L E	