

NAPHTHA: SOLVENT

NSV

CAUTIONARY RESPONSE INFORMATION			
Common Synonyms Light naphtha Petroleum solvent	Watery liquid Colorless Floats on water. Vapor is produced.		
<p>Keep people away. Avoid inhalation. Shut off ignition sources and call fire department. Avoid contact with liquid and vapor. 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.</p> <p>VAPOR Not irritating to eyes, nose or throat. If inhaled, will cause dizziness or loss of consciousness. Move to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen.</p> <p>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	3. HEALTH HAZARDS
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: Currently not available</p> <p>2.3 IMO/UN Designation: 3.2/1256</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>	<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 to fresh air, treat symptoms. INGESTION: do NOT induce vomiting; call a doctor. EYES: flush with water for 15 min. SKIN: wipe off, wash with soap and water.</p> <p>3.4 TLV-TWA: 400 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 eyes and throat.</p> <p>3.11 Liquid or Solid Characteristics: Minimum hazard. If spilled on clothing and allowed to remain, may cause smarting and reddening of skin.</p> <p>3.12 Odor Threshold: Currently not available</p> <p>3.13 IDLH Value: 1,000 ppm</p> <p>3.14 OSHA PEL-TWA: 100 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
4.1 Flash Point: >100°F C.C.	7.1 Grades of Purify: Refined solvent; crude light solvent; crude heavy solvent
4.2 Flammable Limits in Air: 0.8%-5.0%	7.2 Storage Temperature: Ambient
4.3 Fire Extinguishing Agents: Foam, carbon dioxide, or dry chemical	7.3 Inert Atmosphere: No requirement
4.4 Fire Extinguishing Agents Not to Be Used: Not pertinent	7.4 Venting: Open (flame arrester) or pressure-vacuum
4.5 Special Hazards of Combustion Products: Not pertinent	7.5 IMO Pollution Category: Currently not available
4.6 Behavior in Fire: Not pertinent	7.6 Ship Type: Currently not available
4.7 Auto Ignition Temperature: 444°F	7.7 Barge Hull Type: Currently not available
4.8 Electrical Hazards: Class I, Group D	8. HAZARD CLASSIFICATIONS
4.9 Burning Rate: 4 mm/min.	8.1 49 CFR Category: Flammable liquid
4.10 Adiabatic Flame Temperature: Currently not available	8.2 49 CFR Class: 3
4.11 Stoichiometric Air to Fuel Ratio: Not pertinent	8.3 49 CFR Package Group: I
4.12 Flame Temperature: Currently not available	8.4 Marine Pollutant: Yes
4.13 Combustion Molar Ratio (Reactant to Product): Not pertinent.	8.5 NFPA Hazard Classification: Not listed
4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed	8.6 EPA Reportable Quantity: Not listed.
5. CHEMICAL REACTIVITY	8.7 EPA Pollution Category: Not listed.
5.1 Reactivity with Water: No reaction	8.8 RCRA Waste Number: Not listed
5.2 Reactivity with Common Materials: No reaction	8.9 EPA FWPCA List: Not listed
5.3 Stability During Transport: Stable	9. PHYSICAL & CHEMICAL PROPERTIES
5.4 Neutralizing Agents for Acids and Caustics: Not pertinent	9.1 Physical State at 15°C and 1 atm: Liquid
5.5 Polymerization: Not pertinent	9.2 Molecular Weight: Not pertinent
5.6 Inhibitor of Polymerization: Not pertinent	9.3 Boiling Point at 1 atm: 266–311°F = 130–155°C = 403–428°K
6. WATER POLLUTION	9.4 Freezing Point: Not pertinent
6.1 Aquatic Toxicity: Currently not available	9.5 Critical Temperature: Not pertinent
6.2 Waterfowl Toxicity: Currently not available	9.6 Critical Pressure: Not pertinent
6.3 Biological Oxygen Demand (BOD): Currently not available	9.7 Specific Gravity: 0.85–0.87 at 20°C (liquid)
6.4 Food Chain Concentration Potential: None	9.8 Liquid Surface Tension: 19–23 dynes/cm = 0.019–0.023 N/m at 20°C
6.5 GESAMP Hazard Profile: Not listed	9.9 Liquid Water Interfacial Tension: 39–51 dynes/cm = 0.039–0.051 N/m at 20°C
	9.10 Vapor (Gas) Specific Gravity: Currently not available
	9.11 Ratio of Specific Heats of Vapor (Gas): (est.) 1.030
	9.12 Latent Heat of Vaporization: 130–150 Btu/lb = 71–81 cal/g = 3.0–3.4 X 10 ⁶ J/kg
	9.13 Heat of Combustion: (est.) –18,200 Btu/lb = –10,100 cal/g = –424 X 10 ⁶ J/kg
	9.14 Heat of Decomposition: Not pertinent
	9.15 Heat of Solution: Not pertinent
	9.16 Heat of Polymerization: Not pertinent
	9.17 Heat of Fusion: Currently not available
	9.18 Limiting Value: Currently not available
	9.19 Reid Vapor Pressure: Currently not available

NOTES

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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	53.060	50	0.478	50	1.040	50	9.343
52	53.060	52	0.478	52	1.040	52	8.841
54	53.060	54	0.478	54	1.040	54	8.370
56	53.060	56	0.478	56	1.040	56	7.927
58	53.060	58	0.478	58	1.040	58	7.511
60	53.060	60	0.478	60	1.040	60	7.119
62	53.060	62	0.478	62	1.040	62	6.751
64	53.060	64	0.478	64	1.040	64	6.404
66	53.060	66	0.478	66	1.040	66	6.078
68	53.060	68	0.478	68	1.040	68	5.770
70	53.060	70	0.478	70	1.040	70	5.481
72	53.060	72	0.478	72	1.040	72	5.207
74	53.060	74	0.478	74	1.040	74	4.950
76	53.060	76	0.478	76	1.040	76	4.707
78	53.060	78	0.478	78	1.040	78	4.477
80	53.060	80	0.478	80	1.040	80	4.260
82	53.060	82	0.478	82	1.040	82	4.056
84	53.060	84	0.478	84	1.040	84	3.862
86	53.060	86	0.478	86	1.040	86	3.679
88	53.060	88	0.478	88	1.040	88	3.506
90	53.060	90	0.478	90	1.040	90	3.342
92	53.060	92	0.478	92	1.040	92	3.187
94	53.060	94	0.478	94	1.040	94	3.040
96	53.060	96	0.478	96	1.040	96	2.901
98	53.060	98	0.478	98	1.040	98	2.770
100	53.060	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	90	0.094		N		C	
N	100	0.124		O		U	
S	110	0.163		T		R	
O	120	0.211		P		R	
L	130	0.272		E		E	
U	140	0.347		R		N	
B	150	0.440		T		E	
L	160	0.553		I		N	
E	170	0.691		N		T	
	180	0.856					
	190	1.054					
	200	1.290					
	210	1.569					
	220	1.897					
	230	2.281					
	240	2.728					
	250	3.247					
	260	3.846					
	270	4.535					
	280	5.323					
	290	6.221					
	300	7.241					
	310	8.394					
	320	9.695					
	330	11.160					
	340	12.790					